



## **GSMGPRS Huawei BSS V900R011C02 Fix Pack v2.0.1.0 Product Requirements**

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# 1 Change History

Issue	Date	Author	Comments
1.0	23 Dec 2010	IBM	Released

## 2 Outstanding Issues

Number	Date	Description	Planned Resolution
N/A			

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### 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
<b>ANI_IP</b> - Mapped with B67109481.BSC & "/" & ObjectID or B67109500.BSC & "/" & ObjectID	
B67109481	<a href="#">ANI_IP.Huawei.GSM.Adjacent_node_connection</a>
B67109500	<a href="#">ANI_IP.Huawei.GSM.Adjacent_node_resource_op</a>
<b>Bearer</b> - Mapped with B1275072717.BSC & "/" & BearerChannelID & "/" & SlotNo & "/" & SubrackNo	
B1275072717	<a href="#">Bearer.Huawei.GSM.BC_transfer_capability</a>
<b>BM_Subrack</b> - Mapped with B1275069418.BSC & "/" & SubrackNo or B1275069420.BSC & "/" & SubrackNo or B1275069422.BSC & "/" & SubrackNo or B1275070217.BSC & "/" & SubrackNo	
B1275069418	<a href="#">BM_Subrack.Huawei.GSM.BTS_configuration</a>
B1275069420	<a href="#">BM_Subrack.Huawei.GSM.Cell_configuration</a>
B1275069422	<a href="#">BM_Subrack.Huawei.GSM.TRX_configuration</a>
B1275070217	<a href="#">BM_Subrack.Huawei.GSM.A_interface_circuit</a>
<b>BS</b> - Mapped with B1275069417.BSC & "/" & ObjectID or B1275069428.BSC & "/" & ObjectID or B1275069430.BSC & "/" & ObjectID or B1275069423.BSC & "/" & ObjectID or B1275069424.BSC & "/" & ObjectID or B1290793514.BSC & "/" & ObjectID or B1290793529.BSC & "/" & ObjectID	
B1275069417	<a href="#">BS.Huawei.GSM.BTS_state</a>
B1275069423	<a href="#">BS.Huawei.GSM.CRC_error</a>
B1275069424	<a href="#">BS.Huawei.GSM.CRC_serious_error</a>
B1275069428	<a href="#">BS.Huawei.GSM.BTS_flexAbis</a>
B1275069430	<a href="#">BS.Huawei.GSM.IPclock_of_PTU</a>
B1290793514	<a href="#">BS.Huawei.GSM.BTS_energy</a>

B1290793529	<a href="#">BS.Huawei.GSM.Utilization_of_BTS_timeslots</a>
<b>BSC - Mapped with B1275070617.BSC or B1275072018.BSC or B1275073217.BSC</b>	
B1275070617	<a href="#">BSC.Huawei.GSM.Cell_broadcast_overview</a>
B1275070617	<a href="#">BSC.Huawei.GSM.Cell_broadcast</a>
B1275070817	<a href="#">BSC.Huawei.GSM.PCU_messages</a>
B1275071217	<a href="#">BSC.Huawei.GSM.A_interface_paging</a>
B1275071417	<a href="#">BSC.Huawei.GSM.Call_duration</a>
B1275071517	<a href="#">BSC.Huawei.GSM.VGCS_Setup</a>
B1275071518	<a href="#">BSC.Huawei.GSM.VBS_Setup</a>
B1275072017	<a href="#">BSC.Huawei.GSM.Channel_assignment</a>
B1275072017	<a href="#">BSC.Huawei.GSM.Channel_call_drop</a>
B1275072017	<a href="#">BSC.Huawei.GSM.Channel_handovers</a>
B1275072017	<a href="#">BSC.Huawei.GSM.Channel_miscellaneous</a>
B1275072018	<a href="#">BSC.Huawei.GSM.Access_availability</a>
B1275072018	<a href="#">BSC.Huawei.GSM.Access_busy_tch</a>
B1275072018	<a href="#">BSC.Huawei.GSM.Access_call_drops</a>
B1275072018	<a href="#">BSC.Huawei.GSM.Access_call_setup</a>
B1275072018	<a href="#">BSC.Huawei.GSM.Access_dynamic_config</a>
B1275072018	<a href="#">BSC.Huawei.GSM.Access_handover</a>
B1275072018	<a href="#">BSC.Huawei.GSM.Access_overview</a>
B1275072018	<a href="#">BSC.Huawei.GSM.Access_traffic_volume</a>
B1275072019	<a href="#">BSC.Huawei.GSM.TRX_configuration</a>
B1275072021	<a href="#">BSC.Huawei.GSM.Call_performance_overview</a>
B1275072023	<a href="#">BSC.Huawei.GSM.Assignment_failure</a>
B1275072025	<a href="#">BSC.Huawei.GSM.Call_drop_loopback_fail</a>
B1275072025	<a href="#">BSC.Huawei.GSM.Call_drop</a>

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B1275072047	<a href="#">BSC.Huawei.GSM.Handover_failure_incom_ext</a>
B1275072047	<a href="#">BSC.Huawei.GSM.Handover_failure_internal</a>
B1275072047	<a href="#">BSC.Huawei.GSM.Handover_failure_outgoing_ext</a>
B1275072047	<a href="#">BSC.Huawei.GSM.Handover_failure_outgoing_int</a>
B1275072047	<a href="#">BSC.Huawei.GSM.Handover_failure_outgoing_irat</a>
B1275072047	<a href="#">BSC.Huawei.GSM.Handover_failure_overview</a>
B1275072048	<a href="#">BSC.Huawei.GSM.Handover_attempt_internal</a>
B1275072048	<a href="#">BSC.Huawei.GSM.Handover_attempt_outgoing</a>
B1275072048	<a href="#">BSC.Huawei.GSM.Handover_attempt_overview</a>
B1275072049	<a href="#">BSC.Huawei.GSM.Handover_fail_per_cause</a>
B1275072049	<a href="#">BSC.Huawei.GSM.Handover_success_per_cause</a>
B1275072050	<a href="#">BSC.Huawei.GSM.Interfrequency_band</a>
B1275072051	<a href="#">BSC.Huawei.GSM.Handover_kpi_incoming_ext</a>
B1275072051	<a href="#">BSC.Huawei.GSM.Handover_kpi_incoming_int</a>
B1275072051	<a href="#">BSC.Huawei.GSM.Handover_kpi_intra_cell</a>
B1275072051	<a href="#">BSC.Huawei.GSM.Handover_kpi_outgoing_ext</a>
B1275072051	<a href="#">BSC.Huawei.GSM.Handover_kpi_outgoing_int</a>
B1275072051	<a href="#">BSC.Huawei.GSM.Handover_kpi_overview</a>
B1275072052	<a href="#">BSC.Huawei.GSM.TRX_rxqual_and_lvl_fr_DL</a>
B1275072052	<a href="#">BSC.Huawei.GSM.TRX_rxqual_and_lvl_fr_UL</a>
B1275072053	<a href="#">BSC.Huawei.GSM.TRX_rxqual_and_lvl_hr_DL</a>
B1275072053	<a href="#">BSC.Huawei.GSM.TRX_rxqual_and_lvl_hr_UL</a>
B1275072054	<a href="#">BSC.Huawei.GSM.Number_of_MRs</a>
B1275072054	<a href="#">BSC.Huawei.GSM.Ratio_of_receive_quality</a>
B1275072055	<a href="#">BSC.Huawei.GSM.VGCS_VBS_measurement</a>
B1275072057	<a href="#">BSC.Huawei.GSM.Packet_access_capability</a>
B1275072058	<a href="#">BSC.Huawei.GSM.Packet_Assignment_Capability</a>
B1275072059	<a href="#">BSC.Huawei.GSM.TBF_capability</a>
B1275072060	<a href="#">BSC.Huawei.GSM.Packet_transfer_capability</a>

B1275072061	<a href="#">BSC.Huawei.GSM.PDCH_resource_capability</a>
B1275073217	<a href="#">BSC.Huawei.GSM.Ps_capability</a>
B1275073218	<a href="#">BSC.Huawei.GSM.BSC_PS_user_capability</a>
B1290793504	<a href="#">BSC.Huawei.GSM.BTS_management</a>
<b>BSC_DSP</b> - Mapped with B1275073118.BSC & "/" & DSPNo & "/" & SlotNo & "/" & SubrackNo	
B1275073117	<a href="#">BSC_DSP.Huawei.GSM.DSP_CPU</a>
B1275073118	<a href="#">BSC_DSP.Huawei.GSM.DSP_PDCH</a>
<b>BSC_Trunk_Group</b> - Mapped with B82863915.BSC & "/" & Trunk	
B82863915	<a href="#">BSC_Trunk_Group.Huawei.GSM.Trunk_Group_Perf</a>
<b>CBSCIPPM</b> - Mapped with B1275073417.BSC & "/" & ObjectID	
B1275073417	<a href="#">CBSCIPPM.Huawei.GSM.BSC_IPPM_link_capability</a>
<b>Cell</b> - Mapped with B1275071424.BSC & "/" & ObjectID or B1275071435.BSC & "/" & ObjectID or B1275072525.BSC & "/" & ObjectID or B1275072526.BSC & "/" & ObjectID or B1275072527.BSC & "/" & ObjectID or B1275072528.BSC & "/" & ObjectID or B1275072617.BSC & "/" & ObjectID or B1275071441.BSC & "/" & ObjectID or B1275071817.BSC & "/" & ObjectID	
B1275069419	<a href="#">Cell.Huawei.GSM.Cell_state</a>
B1275070618	<a href="#">Cell.Huawei.GSM.Cell_broadcast_queue</a>
B1275071218	<a href="#">Cell.Huawei.GSM.Abis_interface_paging</a>
B1275071418	<a href="#">Cell.Huawei.GSM.Flow_control</a>
B1275071419	<a href="#">Cell.Huawei.GSM.Short_message</a>
B1275071420	<a href="#">Cell.Huawei.GSM.Call_drop_after_answer</a>
B1275071420	<a href="#">Cell.Huawei.GSM.Call_drop_clr_req_on_A_iface</a>
B1275071420	<a href="#">Cell.Huawei.GSM.Call_drop_due_rel_ind_ULay_olay</a>
B1275071420	<a href="#">Cell.Huawei.GSM.Call_drop_due_to_Abis_fail</a>
B1275071420	<a href="#">Cell.Huawei.GSM.Call_drop_due_to_conn_fail</a>
B1275071420	<a href="#">Cell.Huawei.GSM.Call_drop_due_to equip_fail</a>
B1275071420	<a href="#">Cell.Huawei.GSM.Call_drop_due_to_err_ind</a>

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B1275071420	<a href="#">Cell.Huawei.GSM.Call_drop_due_to_forced_ho</a>
B1275071420	<a href="#">Cell.Huawei.GSM.Call_drop_due_to_no_MRs</a>
B1275071420	<a href="#">Cell.Huawei.GSM.Call_drop_due_to_rel_ind</a>
B1275071420	<a href="#">Cell.Huawei.GSM.Call_drop_due_to_res_check</a>
B1275071420	<a href="#">Cell.Huawei.GSM.Call_drop_dueto_connfail_ULay_olay</a>
B1275071420	<a href="#">Cell.Huawei.GSM.Call_drop_miscellaneous</a>
B1275071420	<a href="#">Cell.Huawei.GSM.Call_drop_overview</a>
B1275071421	<a href="#">Cell.Huawei.GSM.Channel_activation_overview</a>
B1275071421	<a href="#">Cell.Huawei.GSM.Channel_activation_SDCCH</a>
B1275071421	<a href="#">Cell.Huawei.GSM.Channel_activation_TCHF</a>
B1275071421	<a href="#">Cell.Huawei.GSM.Channel_activation_TCHH</a>
B1275071423	<a href="#">Cell.Huawei.GSM.Immediate_assign_request_reject</a>
B1275071423	<a href="#">Cell.Huawei.GSM.Immediate_assignment_overview</a>
B1275071423	<a href="#">Cell.Huawei.GSM.Immediate_assignment_SDCCH</a>
B1275071423	<a href="#">Cell.Huawei.GSM.Immediate_assignment_TCHF</a>
B1275071423	<a href="#">Cell.Huawei.GSM.Immediate_assignment_TCHH</a>
B1275071424	<a href="#">Cell.Huawei.GSM.Assignment_failures</a>
B1275071424	<a href="#">Cell.Huawei.GSM.Assignment_mode_modify</a>
B1275071424	<a href="#">Cell.Huawei.GSM.Assignment_overview</a>
B1275071424	<a href="#">Cell.Huawei.GSM.Assignment_req_cmd_complete</a>
B1275071425	<a href="#">Cell.Huawei.GSM.Intracell_handover_failures</a>
B1275071425	<a href="#">Cell.Huawei.GSM.Intracell_handover_overview</a>
B1275071425	<a href="#">Cell.Huawei.GSM.Intracell_HO_reqs_cmds</a>
B1275071426	<a href="#">Cell.Huawei.GSM.Incom_int_intercell_HO_failures</a>
B1275071426	<a href="#">Cell.Huawei.GSM.Incom_int_intercell_HO_overview</a>
B1275071426	<a href="#">Cell.Huawei.GSM.Incom_int_intercell_HO_req_resp</a>
B1275071427	<a href="#">Cell.Huawei.GSM.Outgo_int_intercell_HO_failures</a>
B1275071427	<a href="#">Cell.Huawei.GSM.Outgo_int_intercell_HO_overview</a>
B1275071427	<a href="#">Cell.Huawei.GSM.Outgo_int_intercell_HO_reqs_cmds</a>

B1275071428	<a href="#">Cell.Huawei.GSM.Incom_ext_intercell_handover</a>
B1275071428	<a href="#">Cell.Huawei.GSM.Incom_ext_intercell_HO_overview</a>
B1275071429	<a href="#">Cell.Huawei.GSM.Outgo_ext_intercell_HO_failures</a>
B1275071429	<a href="#">Cell.Huawei.GSM.Outgo_ext_intercell_HO_overview</a>
B1275071429	<a href="#">Cell.Huawei.GSM.Outgo_ext_intercell_HO_reqs_cmds</a>
B1275071430	<a href="#">Cell.Huawei.GSM.Incom_interrat_HO_failures</a>
B1275071430	<a href="#">Cell.Huawei.GSM.Incom_interrat_HO_overview</a>
B1275071430	<a href="#">Cell.Huawei.GSM.Incom_interrat_HO_req_resp</a>
B1275071431	<a href="#">Cell.Huawei.GSM.Outgo_interrat_HO_reqs_cmds</a>
B1275071431	<a href="#">Cell.Huawei.GSM.Outgoing_interrat_HO_failures</a>
B1275071431	<a href="#">Cell.Huawei.GSM.Outgoing_interrat_HO_overview</a>
B1275071434	<a href="#">Cell.Huawei.GSM.MRs_upon_handover_initiation</a>
B1275071435	<a href="#">Cell.Huawei.GSM.Key_performance_indicators</a>
B1275071437	<a href="#">Cell.Huawei.GSM.Local_switch_atmpt_succ_fails</a>
B1275071437	<a href="#">Cell.Huawei.GSM.Local_switch_call_drops</a>
B1275071437	<a href="#">Cell.Huawei.GSM.Local_switch_overview</a>
B1275071438	<a href="#">Cell.Huawei.GSM.Rate_of_SDCCH_call_failures</a>
B1275071439	<a href="#">Cell.Huawei.GSM.Incom_interrat_HO_fails_TDD</a>
B1275071439	<a href="#">Cell.Huawei.GSM.Incom_interrat_HO_overview_TDD</a>
B1275071439	<a href="#">Cell.Huawei.GSM.Incom_interrat_HO_req_resp_TDD</a>
B1275071440	<a href="#">Cell.Huawei.GSM.Outgo_interrat_HO_reqs_cmds_TDD</a>
B1275071440	<a href="#">Cell.Huawei.GSM.Outgoing_interrat_HO_fails_TDD</a>
B1275071440	<a href="#">Cell.Huawei.GSM.Outgoing_interrat_HO_overview_TDD</a>
B1275071441	<a href="#">Cell.Huawei.GSM.TRX_configuration</a>
B1275071443	<a href="#">Cell.Huawei.GSM.AMR_calls</a>
B1275071519	<a href="#">Cell.Huawei.GSM.VGCS_assignment</a>

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B1275071520	<a href="#">Cell.Huawei.GSM.VBS_assignment</a>
B1275071521	<a href="#">Cell.Huawei.GSM.VGCS_downlink_detection</a>
B1275071522	<a href="#">Cell.Huawei.GSM.VGCS_uplink_seizure</a>
B1275071523	<a href="#">Cell.Huawei.GSM.VGCS_downlink_seizure</a>
B1275071524	<a href="#">Cell.Huawei.GSM.VBS_uplink_seizure</a>
B1275071525	<a href="#">Cell.Huawei.GSM.VBS_downlink_seizure</a>
B1275071526	<a href="#">Cell.Huawei.GSM.Inter_cell_handovers</a>
B1275071527	<a href="#">Cell.Huawei.GSM.Intra_cell_handover</a>
B1275071528	<a href="#">Cell.Huawei.GSM.Outgoing_inter_BSC_handovers</a>
B1275071529	<a href="#">Cell.Huawei.GSM.Incoming_inter_BSC_handovers</a>
B1275071530	<a href="#">Cell.Huawei.GSM.VGCS_handovers</a>
B1275071531	<a href="#">Cell.Huawei.GSM.MS_capability_per_cell</a>
B1275071532	<a href="#">Cell.Huawei.GSM.Speech_disconnections_per_cell</a>
B1275071533	<a href="#">Cell.Huawei.GSM.MS_location_service</a>
B1275071617	<a href="#">Cell.Huawei.GSM.Number_of_MRs</a>
B1275071619	<a href="#">Cell.Huawei.GSM.Power_control_messages</a>
B1275071633	<a href="#">Cell.Huawei.GSM.Mean_in_EMR</a>
B1275071634	<a href="#">Cell.Huawei.GSM.Frame_rate_in_ext</a>
B1275071817	<a href="#">Cell.Huawei.GSM.Channel_config_availability</a>
B1275071817	<a href="#">Cell.Huawei.GSM.Channel_config_initial_dynamic</a>
B1275071817	<a href="#">Cell.Huawei.GSM.Channel_configuration_overview</a>
B1275071818	<a href="#">Cell.Huawei.GSM.Channel_conversion</a>
B1275071819	<a href="#">Cell.Huawei.GSM.Channel_busy_duration</a>
B1275071820	<a href="#">Cell.Huawei.GSM.Maximum_busy_channels</a>
B1275071821	<a href="#">Cell.Huawei.GSM.Channel_state_blocked</a>
B1275071821	<a href="#">Cell.Huawei.GSM.Channel_state_utilisation</a>
B1275071821	<a href="#">Cell.Huawei.GSM.Channel_state_volume</a>
B1275071822	<a href="#">Cell.Huawei.GSM.Channel_assignment_request</a>
B1275071824	<a href="#">Cell.Huawei.GSM.Channel_assignment_failures</a>

B1275071825	<a href="#">Cell.Huawei.GSM.Channel_assignment_conc_cell</a>
B1275071826	<a href="#">Cell.Huawei.GSM.Channel_assignment_queue</a>
B1275071827	<a href="#">Cell.Huawei.GSM.Channel_assignment_GPRS</a>
B1275071828	<a href="#">Cell.Huawei.GSM.Power_statistic</a>
B1275071829	<a href="#">Cell.Huawei.GSM.IBCA_statistic</a>
B1275071831	<a href="#">Cell.Huawei.GSM.Power_saving</a>
B1275071832	<a href="#">Cell.Huawei.GSM.Abis_Congestion</a>
B1275072517	<a href="#">Cell.Huawei.GSM.Packet_access_capability</a>
B1275072518	<a href="#">Cell.Huawei.GSM.Packet_assignment_capability</a>
B1275072519	<a href="#">Cell.Huawei.GSM.Cell_paging_capability</a>
B1275072520	<a href="#">Cell.Huawei.GSM.Intracell_handover_ps</a>
B1275072521	<a href="#">Cell.Huawei.GSM.UL_GPRS_TBF_estab_and_RLS_cap</a>
B1275072522	<a href="#">Cell.Huawei.GSM.DL_GPRS_TBF_estab_and_RLS_cap</a>
B1275072523	<a href="#">Cell.Huawei.GSM.UL_EGPRS_TBF_estab_and_RLS_cap</a>
B1275072524	<a href="#">Cell.Huawei.GSM.TBF_estab_and_RLS_cap</a>
B1275072525	<a href="#">Cell.Huawei.GSM.UL_GPRS_RLC_data_transfer_cap</a>
B1275072526	<a href="#">Cell.Huawei.GSM.DL_GPRS_RLC_data_transfer_cap</a>
B1275072527	<a href="#">Cell.Huawei.GSM.UL_EGPRS_RLC_data_transfer_cap</a>
B1275072528	<a href="#">Cell.Huawei.GSM.RLC_data_transfer_cap</a>
B1275072529	<a href="#">Cell.Huawei.GSM.GMSK_mean_BEP_different_value</a>
B1275072530	<a href="#">Cell.Huawei.GSM.Mean_BEP_8PSK</a>
B1275072531	<a href="#">Cell.Huawei.GSM.UL_llc_data_transfer_capability</a>
B1275072532	<a href="#">Cell.Huawei.GSM.DL_llc_data_transfer_capability</a>
B1275072533	<a href="#">Cell.Huawei.GSM.Resource_maintenance_capability</a>
B1275072534	<a href="#">Cell.Huawei.GSM.Abis_resource_capability</a>
B1275072535	<a href="#">Cell.Huawei.GSM.PS_MS_radio_access_capability</a>

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B1275072536	<a href="#">Cell.Huawei.GSM.Cell_user_capability</a>
B1275072537	<a href="#">Cell.Huawei.GSM.DTM_access_capability</a>
B1275072538	<a href="#">Cell.Huawei.GSM.Uplink_GMSK_MEAN_BEP</a>
B1275072539	<a href="#">Cell.Huawei.GSM.Uplink_8PSK_MEAN_BEP</a>
B1275072617	<a href="#">Cell.Huawei.GSM.Radio_channel_capability</a>
B1275072618	<a href="#">Cell.Huawei.GSM.PDCH_resource_cap_GPRS</a>
B1275072618	<a href="#">Cell.Huawei.GSM.PDCH_resource_cap_overview</a>
B1275072618	<a href="#">Cell.Huawei.GSM.PDCH_resource_capability_EGPRS</a>
B1275072619	<a href="#">Cell.Huawei.GSM.PDCH_user_capability</a>
B1275072917	<a href="#">Cell.Huawei.GSM.BSSGP_capability</a>
B1275073017	<a href="#">Cell.Huawei.GSM.TRAU_link_utilisation</a>
B1290793506	<a href="#">Cell.Huawei.GSM.TCH_call_fail_per_cell</a>
B1290793528	<a href="#">Cell.Huawei.GSM.Enhanced_relocation_request</a>
B1290793541	<a href="#">Cell.Huawei.GSM.MS_location_service</a>
B1290793542	<a href="#">Cell.Huawei.GSM.Location_update_measurement</a>
B1290823468	<a href="#">Cell.Huawei.GSM.Call_Duration_per_Cell</a>
B1290823470	<a href="#">Cell.Huawei.GSM.Connect_Mgmt_Signal_per_Cell</a>
B1290823478	<a href="#">Cell.Huawei.GSM.eMLPP_Measurement</a>
<b>Cell_DPC</b> - Mapped with B1290823476.BSC & "/" & CellIndex & "/" & CGI & "/" & NI & "/" & DPC	
B1290823476	<a href="#">Cell_DPC.Huawei.GSM.Measurement_of_MSC</a>
<b>CELL_LOCGRP</b> - Mapped with B1290793536.BSC & "/" & ObjectID or B1290793537.BSC & "/" & ObjectID or B1290793538.BSC & "/" & ObjectID	
B1290793536	<a href="#">CELL_LOCGRP.Huawei.GSM.Channel_state_measurement</a>
B1290793537	<a href="#">CELL_LOCGRP.Huawei.GSM.Channel_handover_measurement</a>
B1290793538	<a href="#">CELL_LOCGRP.Huawei.GSM.Call_drop_measurement</a>
<b>CELL_SGSNNODE</b> - Mapped with B1290823474.BSC & "/" & CellIndex & "/" & CGI & "/" & OpIndex & "/" & CNId	
B1290823474	<a href="#">CELL_SGSNNODE.Huawei.GSM.Measurement_of_SGSN_Node</a>
<b>Channel_Optical_Port</b> - Mapped with B82834001.BSC & "/" & CHANNELIZED_OPTICAL_PORT	

B82834001	<a href="#">Channel_Optical_Port.Huawei.GSM.Chan_Optical_Port</a>
<b>DPC_Group</b> - Mapped with B1275069618.BSC & "/" & ObjectID	
B1275069618	<a href="#">DPC_Group.Huawei.GSM.A_interface_circuit</a>
<b>E1T1</b> - Mapped with B67109487.BSC & "/" & PortNo & "/" & SlotNo & "/" & SubrackNo	
B67109487	<a href="#">E1T1.Huawei.GSM.Electrical_port_utilisation</a>
<b>Ethernet_Port</b> - Mapped with B1275072317.BSC & "/" & PortNo & "/" & SlotNo & "/" & SubrackNo	
B1275072317	<a href="#">Ethernet_Port.Huawei.GSM.PIUethernet_port_utilisation</a>
<b>FEGE</b> - Mapped with B67109488.BSC & "/" & PortNo & "/" & SlotNo & "/" & SubrackNo	
B67109488	<a href="#">FEGE.Huawei.GSM.Ethernet_port_utilisation</a>
<b>FIBER</b> - Mapped with B67109549.BSC & "/" & ObjectID	
B67109489	<a href="#">FIBER.Huawei.GSM.Optical_port</a>
B67109549	<a href="#">FIBER.Huawei.GSM.UOI_board</a>
<b>HDLC_Link</b> - Mapped with B1275070219.BSC & "/" & HDLCLinkNo or B1275072417.BSC & "/" & HDLCLinkNo or B1275069432.BSC & "/" & HDLCLinkNo or B82833949.BSC & "/" & HDLCLinkNo	
B1275069432	<a href="#">HDLC_Link.Huawei.GSM.HDLC_of_PTU</a>
B1275070219	<a href="#">HDLC_Link.Huawei.GSM.HDLC_resources</a>
B1275072417	<a href="#">HDLC_Link.Huawei.GSM.PiuHDLCchannel</a>
B82833949	<a href="#">HDLC_Link.Huawei.GSM.HDLC_link_data</a>
<b>IPPATH_BSC</b> - Mapped with B67109495.BSC & "/" & ObjectID or B67109540.BSC & "/" & ObjectID & "/" & QOSID or B67109539.BSC & "/" & ObjectID & "/" & PHB	
B67109495	<a href="#">IPPATH_BSC.Huawei.GSM.IPPath_IP_layer</a>
B67109539	<a href="#">IPPATH_BSC.Huawei.GSM.IPPM_utilisation</a>
B67109540	<a href="#">IPPATH_BSC.Huawei.GSM.IPPath_QOS</a>
<b>IPPATH_Link</b> - Mapped with B67109467.BSC & "/" & ObjectID	
B67109467	<a href="#">IPPATH_Link.Huawei.GSM.Link_utilisation</a>

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**LAPD** - Mapped with B1275068427.BSC & "/" & LogicNo or B1275069427.BSC & "/" & LogicNo or B1275071219.BSC & "/" & LogicNo or B1275071436.BSC & "/" & LogicNo

B1275068427	<a href="#">LAPD.Huawei.GSM.LAPD_link_utilisation</a>
B1275069427	<a href="#">LAPD.Huawei.GSM.LAPD_link_at_the_BTS</a>
B1275071219	<a href="#">LAPD.Huawei.GSM.Discarded_paging_messages</a>
B1275071436	<a href="#">LAPD.Huawei.GSM.Calls_discarded</a>

**Logic\_Port\_BSC** - Mapped with B1275073317.BSC & "/" & ObjectID or B67109524.BSC & "/" & ObjectID or B67109541.BSC & "/" & ObjectID & "/" & PQN

B1275073317	<a href="#">Logic_Port_BSC.Huawei.GSM.LogicPort_measurement_per_BSC</a>
B67109524	<a href="#">Logic_Port_BSC.Huawei.GSM.Logical_port_utilisation</a>
B67109541	<a href="#">Logic_Port_BSC.Huawei.GSM.Logical_port_queue</a>

**M3UA\_Dest** - Mapped with B1275072117.BSC & "/" & EntityIndex or B67109484.BSC & "/" & EntityIndex

B1275072117	<a href="#">M3UA_Dest.Huawei.GSM.Utilisation</a>
B67109484	<a href="#">M3UA_Dest.Huawei.GSM.M3UA_destination_entity</a>

**M3UA\_Link** - Mapped with B1275072118.BSC & "/" & CPUNo & "/" & M3UALinkNo & "/" & SlotNo & "/" & SubrackNo or B67109482.BSC & "/" & ObjectID

B1275072118	<a href="#">M3UA_Link.Huawei.GSM.M3UA_link_utilisation</a>
B67109482	<a href="#">M3UA_Link.Huawei.GSM.M3UA_link_usage</a>

**M3UA\_LinkSet** - Mapped with B67109483.BSC & "/" & ObjectID

B67109483	<a href="#">M3UA_LinkSet.Huawei.GSM.Link_set_utilisation</a>
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**MLPPP\_BSC** - Mapped with B67109490.BSC & "/" & ObjectID or B67109542.BSC & "/" & ObjectID & "/" & GRPQID

B67109490	<a href="#">MLPPP_BSC.Huawei.GSM.MLPPP_group_utilisation</a>
B67109542	<a href="#">MLPPP_BSC.Huawei.GSM.MLPPP_queue_utilisation</a>

**MTP2Link** - Mapped with B1290793530.BSC & "/" & LKS & "/" & SLC

B1290793530	<a href="#">MTP2Link.Huawei.GSM.Link_utilisation</a>
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**MTP3\_DSP** - Mapped with B67109550.BSC & "/" & Label & "/" & DPX

B67109550	<a href="#">MTP3_DSP.Huawei.GSM.Signalling_point_utilisation</a>
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**MTP3\_Link** - Mapped with B1275068420.BSC & "/" & LinkSetNo & "/" & LinkNo & "/" & Spuframe & "/" & CiuSlot or B67109551.BSC & "/" & LKS & "/" & SLC

B1275068420	<a href="#">MTP3_Link.Huawei.GSM.Link_utilisation</a>
B67109551	<a href="#">MTP3_Link.Huawei.GSM.Link_usage</a>
<b>MTP3_LinkSet</b> - Mapped with B1275068420.BSC & "/" & LinkSetNo & "/" & Spuframe & "/" & CiuSlot or B67109552.BSC & "/" & Label & "/" & Index	
B67109552	<a href="#">MTP3_LinkSet.Huawei.GSM.Link_set_utilisation</a>
<b>Neighbour</b> - Mapped with B1275071432.BSC & "/" & ObjectID & "/" & CGI or B1275071433.BSC & "/" & ObjectID & "/" & CGI or B1275071620.BSC & "/" & Cellindex & "/" & BCCH & "/" & BCC & "/" & NCC	
B1275071432	<a href="#">Neighbour.Huawei.GSM.GSM_to_GSM_cell_incom_handover</a>
B1275071433	<a href="#">Neighbour.Huawei.GSM.GSM_to_GSM_cell_outgo_handover</a>
B1275071620	<a href="#">Neighbour.Huawei.GSM.Neighbor_cell_level</a>
<b>NonChannel_OpticalPort</b> - Mapped with B82834002.BSC & "/" & NON_CHANNELIZED_OPTICAL_PORT or B82834003.BSC & "/" & NON_CHANNELIZED_OPTICAL_PORT	
B82834002	<a href="#">NonChannel_OpticalPort.Huawei.GSM.Optical_Port_Measurement</a>
B82834003	<a href="#">NonChannel_OpticalPort.Huawei.GSM.Maximum_flux_of_UOI_board</a>
<b>NSVC</b> - Mapped with B1275072817.BSC & "/" & ObjectID	
B1275072817	<a href="#">NSVC.Huawei.GSM.NS_transfer_capability</a>
<b>NSVL</b> - Mapped with B1275072818.BSC & "/" & localNSVLidentifier	
B1275072818	<a href="#">NSVL.Huawei.GSM.NSVL_capability</a>
<b>PCU</b> - Mapped with B1275070017.BSC & "/" & ObjectID or B1275071017.BSC & "/" & ObjectID	
B1275070017	<a href="#">PCU.Huawei.GSM.Pb_interface_circuit</a>
B1275071017	<a href="#">PCU.Huawei.GSM.PCU_messages</a>
<b>PORT_ABIS</b> - Mapped with B1275070117.BSC & "/" & ObjectID	
B1275070117	<a href="#">PORT_ABIS.Huawei.GSM.Abis_interface_utilisation</a>
<b>PPP_BSC</b> - Mapped with B67109491.BSC & "/" & ObjectID or B67109543.BSC & "/" & ObjectID & "/" & PPPLNKQN	

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B67109491	<a href="#">PPP_BSC.Huawei.GSM.PPP_link_utilisation</a>
B67109543	<a href="#">PPP_BSC.Huawei.GSM.PPP_link_queue_utilisation</a>
<b>Processor</b> - Mapped with B1275068428.BSC & "/" & CPUNo & "/" & SlotNo & "/" & SubrackNo or B67109516.BSC & "/" & ObjectID or B67109493.BSC & "/" & ObjectID or B82833961.BSC & "/" & ObjectID or B67109515.BSC & "/" & ObjectID or B82833917.BSC & "/" & ObjectID or B1290793512.BSC & "/" & ObjectID	
B1275068428	<a href="#">Processor.Huawei.GSM.CPU_usage</a>
B1290793512	<a href="#">Processor.Huawei.GSM.TNU_CPU_usage</a>
B67109493	<a href="#">Processor.Huawei.GSM.GCU_CPU_Usage</a>
B67109515	<a href="#">Processor.Huawei.GSM.SCU_CPU_usage</a>
B67109516	<a href="#">Processor.Huawei.GSM.DPU_CPU_Usage</a>
B82833917	<a href="#">Processor.Huawei.GSM.XPU_CPU_usage</a>
B82833961	<a href="#">Processor.Huawei.GSM.INT_CPU_usage</a>
<b>PTUFE</b> - Mapped with B1275069431.BSC & "/" & SiteIndex & "/" & PortNo	
B1275069431	<a href="#">PTUFE.Huawei.GSM.PTUfe_utilisation</a>
<b>SCCP_DSP</b> - Mapped with B1275070417.BSC & "/" & ObjectID	
B1275069617	<a href="#">SCCP_DSP.Huawei.GSM.A_interface_circuit</a>
B1275069817	<a href="#">SCCP_DSP.Huawei.GSM.TC_measurement</a>
B1275070417	<a href="#">SCCP_DSP.Huawei.GSM.MSC_destination</a>
<b>SCCP_OSP</b> - Mapped with B1275068417.BSC & "/" & OSPIndex or B67109452.BSC & "/" & OSPIndex	
B1275068417	<a href="#">SCCP_OSP.Huawei.GSM.Link_utilisation</a>
B67109452	<a href="#">SCCP_OSP.Huawei.GSM.Utilisation</a>
<b>SCTP_Link</b> - Mapped with B1275072217.BSC & "/" & CPUNo & "/" & SCTPLinkNo & "/" & SlotNo & "/" & SubrackNo or B67109468.BSC & "/" & ObjectID or B67109469.BSC & "/" & ObjectID	
B1275072217	<a href="#">SCTP_Link.Huawei.GSM.Utilisation</a>
B67109468	<a href="#">SCTP_Link.Huawei.GSM.Link_utilisation</a>
B67109469	<a href="#">SCTP_Link.Huawei.GSM.SCTP_IP_usage</a>
<b>SCTPLNK_IPLAYER</b> - Mapped with B67109485.BSC & "/" & SRN & "/" & SN & "/" & SCTPLNKN	

B67109485	<a href="#">SCTPLNK_IPLAYER.Huawei.GSM.SCTP_link_IP_layer</a>
<b>SDH</b> - Mapped with B67109496.BSC & "/" & ObjectID	
B67109496	<a href="#">SDH.Huawei.GSM.Utilisation</a>
<b>TC_Board</b> - Mapped with B1275069818.BSC & "/" & SubrackNo or B1290793496.BSC & "/" & ATER_RES	
B1275069818	<a href="#">TC_Board.Huawei.GSM.TC_utilisation</a>
B1275070218	<a href="#">TC_Board.Huawei.GSM.Ater_interface_circuit</a>
B1290793496	<a href="#">TC_Board.Huawei.GSM.Ater_interface_circuit</a>
<b>TC_RES</b> - Mapped with B1290793497.BSC & "/" & TC_RES	
B1290793497	<a href="#">TC_RES.Huawei.GSM.TC_resource_usage</a>
<b>TRX</b> - Mapped with B1275069421.BSC & "/" & ObjectID & "/" & TRXindex	
B1275069421	<a href="#">TRX.Huawei.GSM.TRX_state</a>
B1275069429	<a href="#">TRX.Huawei.GSM.TRX_trans_packet</a>
B1275069433	<a href="#">TRX.Huawei.GSM.TRX_power</a>
B1275071422	<a href="#">TRX.Huawei.GSM.Channel_seizure</a>
B1275071618	<a href="#">TRX.Huawei.GSM.Interference_band</a>
B1275071621	<a href="#">TRX.Huawei.GSM.TCHF_receive_level_DL</a>
B1275071621	<a href="#">TRX.Huawei.GSM.TCHF_receive_level_UL</a>
B1275071622	<a href="#">TRX.Huawei.GSM.TCHH_receive_level_DL</a>
B1275071622	<a href="#">TRX.Huawei.GSM.TCHH_receive_level_UL</a>
B1275071623	<a href="#">TRX.Huawei.GSM.Receive_quality_DL</a>
B1275071623	<a href="#">TRX.Huawei.GSM.Receive_quality_UL</a>
B1275071624	<a href="#">TRX.Huawei.GSM.Uplinkanddownlink_balance</a>
B1275071625	<a href="#">TRX.Huawei.GSM.Number_of_MR_s_based_on_TA</a>
B1275071626	<a href="#">TRX.Huawei.GSM.Radio_link_failure</a>
B1275071627	<a href="#">TRX.Huawei.GSM.Radio_link_failure_based_on_TA</a>

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B1275071628	<a href="#">TRX.Huawei.GSM.RQI_based_on_ta_mean</a>
B1275071628	<a href="#">TRX.Huawei.GSM.RQI_based_on_ta_MRs</a>
B1275071628	<a href="#">TRX.Huawei.GSM.RQI_based_on_TA_totals</a>
B1275071629	<a href="#">TRX.Huawei.GSM.User_defined_MRs_frames</a>
B1275071629	<a href="#">TRX.Huawei.GSM.User_defined_MRs_power</a>
B1275071629	<a href="#">TRX.Huawei.GSM.User_defined_MRs_voice_quality</a>
B1275071630	<a href="#">TRX.Huawei.GSM.Mean_BEP_in_EMR_TCHF</a>
B1275071630	<a href="#">TRX.Huawei.GSM.Mean_BEP_in_EMR_TCHH</a>
B1275071631	<a href="#">TRX.Huawei.GSM.CV_BEP_in_EMR</a>
B1275071632	<a href="#">TRX.Huawei.GSM.Nbrrcvblocks_in_EMR</a>
B1275071635	<a href="#">TRX.Huawei.GSM.Rx_quality_indicator</a>
B1275071636	<a href="#">TRX.Huawei.GSM.Rx_quality_distribution_DL</a>
B1275071636	<a href="#">TRX.Huawei.GSM.Rx_quality_distribution_UL</a>
B1275071637	<a href="#">TRX.Huawei.GSM.Downlink_VOI</a>
B1275071638	<a href="#">TRX.Huawei.GSM.FER_measurement</a>
B1275071823	<a href="#">TRX.Huawei.GSM.Channel_assignment_success</a>
B1275073018	<a href="#">TRX.Huawei.GSM.PTRAU_packets</a>
B1290793465	<a href="#">TRX.Huawei.GSM.GU_Power_Sharing</a>
B1290793555	<a href="#">TRX.Huawei.GSM.High_Order_Modulation_Pow_Inc</a>
<b>TRX_LOCGRP</b> - Mapped with B1290793531.BSC & "/" & Cellindex & "/" & CGI & "/" & TRXNo & "/" & LocationGroup or B1290793532.BSC & "/" & Cellindex & "/" & CGI & "/" & TRXNo & "/" & LocationGroup or B1290793533.BSC & "/" & Cellindex & "/" & CGI & "/" & TRXNo & "/" & LocationGroup or B1290793534.BSC & "/" & Cellindex & "/" & CGI & "/" & TRXNo & "/" & LocationGroup or B1290793535.BSC & "/" & Cellindex & "/" & CGI & "/" & TRXNo & "/" & LocationGroup	
B1290793531	<a href="#">TRX_LOCGRP.Huawei.GSM.Uplink_downlink_balance</a>
B1290793532	<a href="#">TRX_LOCGRP.Huawei.GSM.Channel_seizure</a>
B1290793533	<a href="#">TRX_LOCGRP.Huawei.GSM.Receive_quality</a>
B1290793534	<a href="#">TRX_LOCGRP.Huawei.GSM.Interference_band</a>
B1290793535	<a href="#">TRX_LOCGRP.Huawei.GSM.MR_per_TA</a>

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TSALLOC - Mapped with B1275069718.BSC & "/" & ObjectID	
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B1275069718	<a href="#">TSALLOC.Huawei.GSM.A_interface_circuit_capability</a>
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## 4 Tech Pack Prerequisites

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

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

## 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 ANI\_IP details

In the network hierarchy, the immediate parent of the ANI\_IP object is BSC.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
ANI_IP_Id	A unique identifier for the ANI_IP	Y		B67109481.BSC & "/" & ObjectID or B67109500.BSC & "/" & ObjectID	
<b>Relationship Attributes</b>					
Network_Id	Network associated with the ANI_IP	Y	Y	B67109481.Network_Id or B67109500.Network_Id	
Region_Id	Region associated with the ANI_IP	Y	Y	B67109481.Region_Id or B67109500.Region_Id	
BSC_Id	A unique identifier for the BSC associated with the ANI_IP	Y	Y	B67109481.BSC or B67109500.BSC	
<b>Configuration Attributes</b>					
ANI_IP_Nam e	A user friendly name preferably unique for for the ANI_IP			B67109481.BSC & "/" & ObjectID or B67109500.BSC & "/" & ObjectID	

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Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			B67109481."GSM" or B67109500."GSM"	
ANI_IP_Version	Hardware/Software version of the ANI_IP			B67109481."V900R011" or B67109500."V900R011"	

## 5.2 Bearer details

In the network hierarchy, the immediate parent of the Bearer object is PCU.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
Bearer_Id	A unique identifier for the Bearer.	Y		B1275072717.BSC & "/" & BearerChannelID & "/" & SlotNo & "/" & SubrackNo	
<b>Relationship Attributes</b>					
SGSN_Id	A unique identifier for the SGSN.	Y	Y	"Populated by customer"	
PCU_Id	A unique identifier for the PCU.	Y	Y	"Populated by customer"	
Region_Id	Region associated with the Bearer.	Y	Y	B1275072717.Region_Id	
Network_Id	Network associated with the Bearer.	Y	Y	B1275072717.Network_Id	
<b>Configuration Attributes</b>					
Bearer_Name	A user friendly name preferably unique for the Bearer.			B1275072717.BSC & "/" & BearerChannelID & "/" & SlotNo & "/" & SubrackNo	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	
CIR	Designed Committed Information Rate.			"Populated by customer"	
Node_Id	A unique identifier for			B1275072717.BSC	

	the Node.				
Node_Name	A user friendly name preferably unique for the Node.			B1275072717.BSC	
Node_Type	Type of Node.			"BSC"	

### 5.3 BM\_Subrack details

In the network hierarchy, the immediate parent of the BM\_Subrack object is BSC.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
BM_Subrack_ Id	A unique identifier for the BM_Subrack.	Y		B1275069418.BSC & "/" & SubrackNo or B1275069420.BSC & "/" & SubrackNo or B1275069422.BSC & "/" & SubrackNo or B1275070217.BSC & "/" & SubrackNo	
<b>Relationship Attributes</b>					
BSC_Id	A unique identifier for the BSC associated with the BM_Subrack.	Y	Y	B1275069418.BSC or B1275069420.BSC or B1275069422.BSC or B1275070217.BSC	
Network_Id	Network associated with the BM_Subrack.	Y	Y	B1275069418.Network_Id or B1275069420.Network_Id or B1275069422.Network_Id or B1275070217.Network_Id	
Region_Id	Region associated with the BM_Subrack.	Y	Y	B1275069418.Region_Id or B1275069420.Region_Id or B1275069422.Region_Id or B1275070217.Region_Id	

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Configuration Attributes					
BM_Subrack_Name	A user friendly name preferably unique for the BM_Subrack.			B1275069418.BSC & "/" & SubrackNo or B1275069420.BSC & "/" & SubrackNo or B1275069422.BSC & "/" & SubrackNo or B1275070217.BSC & "/" & SubrackNo	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			B1275069418."GSM" or B1275069420."GSM" or B1275069422."GSM" or B1275070217."GSM"	
BM_Subrack_Version	Hardware/Software version of the BM_Subrack.			B1275069418."V900R011" or B1275069420."V900R011" or B1275069422."V900R011" or B1275070217."V900R011"	

## 5.4 BS details

In the network hierarchy, the immediate parent of the BS object is BSC.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
BS_Id	A unique identifier for the BS.	Y		B1275069417.BSC & "/" & ObjectID or B1275069428.BSC & "/" & ObjectID or B1275069430.BSC & "/" & ObjectID or B1275069423.BSC & "/" & ObjectID or B1275069424.BSC & "/" & ObjectID or B1290793514.BSC & "/" & ObjectID or B1290793529.BSC & "/" & ObjectID	
<b>Relationship Attributes</b>					
SGSN_Id	A unique identifier for the SGSN.	Y	Y	No mapping	

BSC_Id	The BSC that controls this BS.	Y	Y	B1275069417.BSC or B1275069428.BSC or B1275069430.BSC or B1275069423.BSC or B1275069424.BSC or B1290793514.BSC or B1290793529.BSC	
MSC_Id	A unique identifier for the MSC.	Y	Y	No mapping	
Region_Id	Region associated with the BS.	Y	Y	B1275069417.Region_Id or B1275069428.Region_Id or B1275069430.Region_Id or B1275069423.Region_Id or B1275069424.Region_Id or B1290793514.Region_Id or B1290793529.Region_Id	
Network_Id	Network associated with the BS.	Y	Y	B1275069417.Network_Id or B1275069428.Network_Id or B1275069430.Network_Id or B1275069423.Network_Id or B1275069424.Network_Id or B1290793514.Network_Id or B1290793529.Network_Id	
<b>Configuration Attributes</b>					
BS_Name	A user friendly name preferably unique for the BS (site).			B1275069417.BSC & "/" & ObjectID or B1275069428.BSC & "/" & ObjectID or B1275069430.BSC & "/" & ObjectID or B1275069423.BSC & "/" & ObjectID or B1275069424.BSC & "/" & ObjectID or B1290793514.BSC & "/" & ObjectID or B1290793529.BSC & "/" & ObjectID	
BS_Version	Hardware/Software version of the BS.			B1275069417."V900R011" or B1275069428."V900R011" or B1275069430."V900R011" or	

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				B1275069423."V900R011" or B1275069424."V900R011" or B1290793514."V900R011" or B1290793529."V900R011"	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			B1275069417."GSM" or B1275069428."GSM" or B1275069430."GSM" or B1275069423."GSM" or B1275069424."GSM" or B1290793514."GSM" or B1290793529."GSM"	

## 5.5 BSC\_DSP details

In the network hierarchy, the immediate parent of the BSC\_DSP object is BSC.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
BSC_DSP_Id	A unique identifier for the BSC_DSP.	Y		B1275073118.BSC & "/" & DSPNo & "/" & SlotNo & "/" & SubrackNo	
<b>Relationship Attributes</b>					
Network_Id	Network associated with the BSC_DSP.	Y	Y	B1275073118.Network_Id	
Region_Id	Region associated with the BSC_DSP.	Y	Y	B1275073118.Region_Id	
BSC_Id	A unique identifier of the BSC associated with the BSC_DSP.	Y	Y	B1275073118.BSC	
<b>Configuration Attributes</b>					
BSC_DSP_Name	A user friendly name preferably unique for the BSC_DSP.			B1275073118.BSC & "/" & DSPNo & "/" & SlotNo & "/" & SubrackNo	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	

BSC_DSP_V ersion	Hardware/Software version of the BSC_DSP.			"V900R011"	
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## 5.6 BSC\_Trunk\_Group details

In the network hierarchy, the immediate parent of the BSC\_Trunk\_Group object is BSC.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
BSC_Trunk_Group_Id	A unique identifier for the BSC Trunk Group	Y		B82863915.BSC & "/" & Trunk	
<b>Relationship Attributes</b>					
Network_Id	Network associated with the BSC Trunk Group	Y	Y	B82863915.Network_Id	
Region_Id	Region associated with the BSC Trunk Group	Y	Y	B82863915.Region_Id	
BSC_Id	A unique identifier for the BSC associated with the BSC Trunk Group	Y	Y	B82863915.BSC	
<b>Configuration Attributes</b>					
BSC_Trunk_Group_Name	A user friendly name preferably unique for for the BSC Trunk Group			B82863915.BSC & "/" & Trunk	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	
BSC_Trunk_Group_Versio n	Hardware/Software version of the BSC Trunk Group			"V900R011"	

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## 5.7 BSC details

In the network hierarchy, the immediate parents of the BSC object are: SGSN and MSC.

This object is used for Data Availability tracking

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
BSC_Id	A unique identifier for the BSC.	Y		B1275070617.BSC or B1275072018.BSC or B1275073217.BSC	
<b>Relationship Attributes</b>					
SGSN_Id	A unique identifier for the SGSN.	Y	Y	B1275070617."Populated by customer" or B1275072018."Populated by customer" or B1275073217."Populated by customer"	
MSC_Id	The MSC to which this BSC is connected.	Y	Y	B1275070617."Populated by customer" or B1275072018."Populated by customer" or B1275073217."Populated by customer"	
Region_Id	Region associated with the BSC.	Y	Y	B1275070617.Region_Id or B1275072018.Region_Id or B1275073217.Region_Id	
Network_Id	Network associated with the BSC.	Y	Y	B1275070617.Network_Id or B1275072018.Network_Id or B1275073217.Network_Id	
MGW_Id	A unique identifier for the MGW.	Y	Y	No mapping	
<b>Configuration Attributes</b>					
BSC_Name	A user friendly name preferably unique for the BSC.			B1275070617.BSC or B1275072018.BSC or B1275073217.BSC	

BSC_Version	Hardware/Software version of the BSC.			B1275070617."V900R011" or B1275072018."V900R011" or B1275073217."V900R011"	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			B1275070617."GSM" or B1275072018."GSM" or B1275073217."GSM"	

## 5.8 CBSCIPPM details

In the network hierarchy, the immediate parent of the CBSCIPPM object is BSC.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
CBSCIPPM_I d	A unique identifier for the CBSCIPPM	Y		B1275073417.BSC & "/" & ObjectID	
<b>Relationship Attributes</b>					
Network_Id	Network associated with the CBSCIPPM	Y	Y	B1275073417.Network_Id	
Region_Id	Region associated with the CBSCIPPM	Y	Y	B1275073417.Region_Id	
BSC_Id	A unique identifier for the BSC associated with the CBSCIPPM	Y	Y	B1275073417.BSC	
<b>Configuration Attributes</b>					
CBSCIPPM_ Name	A user friendly name preferably unique for for the CBSCIPPM			B1275073417.BSC & "/" & ObjectID	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS)			"GSM"	
CBSCIPPM_	Hardware/Software			"V900R011"	

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Version	version of the CBSCIPPM				
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## 5.9 Cell\_DPC details

In the network hierarchy, the immediate parent of the Cell\_DPC object is Cell.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
Cell_DPC_Id	A unique identifier for the DPC	Y		B1290823476.BSC & "/" & CellIndex & "/" & CGI & "/" & NI & "/" & DPC	
<b>Relationship Attributes</b>					
Network_Id	Network associated with the DPC	Y	Y	B1290823476.Network_Id	
Region_Id	Region associated with the DPC	Y	Y	B1290823476.Region_Id	
BSC_Id	A unique identifier for the BSC associated with the DPC	Y	Y	B1290823476.BSC	
Cell_Id	A unique identifier for the Cell associated with the DPC	Y	Y	B1290823476.BSC & "/" & CellIndex & "/" & CGI	
<b>Configuration Attributes</b>					
Cell_DPC_Name	A user friendly name preferably unique for for the DPC			B1290823476.BSC & "/" & CellIndex & "/" & CGI & "/" & NI & "/" & LABEL	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	
Cell_DPC_Version	Hardware/Software version of the DPC			"V900R011"	

## 5.10 CELL\_LOCGRP details

In the network hierarchy, the immediate parent of the CELL\_LOCGRP object is BSC.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
CELL_LOCGRP_Id	A unique identifier for the CELL_LOCGRP	Y		B1290793536.BSC & "/" & ObjectID or B1290793537.BSC & "/" & ObjectID or B1290793538.BSC & "/" & ObjectID	
<b>Relationship Attributes</b>					
Network_Id	Network associated with the CELL_LOCGRP	Y	Y	B1290793536.Network_Id or B1290793537.Network_Id or B1290793538.Network_Id	
Region_Id	Region associated with the CELL_LOCGRP	Y	Y	B1290793536.Region_Id or B1290793537.Region_Id or B1290793538.Region_Id	
BSC_Id	A unique identifier for the BSC associated with the CELL_LOCGRP	Y	Y	B1290793536.BSC or B1290793537.BSC or B1290793538.BSC	
<b>Configuration Attributes</b>					
CELL_LOCGRP_Name	A user friendly name preferably unique for for the CELL_LOCGRP	Y		B1290793536.BSC & "/" & ObjectID or B1290793537.BSC & "/" & ObjectID or B1290793538.BSC & "/" & ObjectID	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS)			B1290793536."GSM" or B1290793537."GSM" or B1290793538."GSM"	
CELL_LOCGRP_Version	Hardware/Software version of the CELL_LOCGRP			B1290793536."V900R011" or B1290793537."V900R011" or B1290793538."V900R011"	

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Location_Group	Location Group for the Cell_LOCGRP.			B1290793536.BSC & "/" & LocationGroup or B1290793537.BSC & "/" & LocationGroup or B1290793538.BSC & "/" & LocationGroup	
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## 5.11 CELL\_SGSNNODE details

In the network hierarchy, the immediate parent of the CELL\_SGSNNODE object is Cell.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
CELL_SGSN NODE_Id	A unique identifier for the CELL_SGSNNODE	Y		B1290823474.BSC & "/" & CellIndex & "/" & CGI & "/" & OpIndex & "/" & CNId	
<b>Relationship Attributes</b>					
Network_Id	Network associated with the CELL_SGSNNODE	Y	Y	B1290823474.Network_Id	
Region_Id	Region associated with the CELL_SGSNNODE	Y	Y	B1290823474.Region_Id	
BSC_Id	A unique identifier for the BSC associated with the CELL_SGSNNODE	Y	Y	B1290823474.BSC	
Cell_Id	A unique identifier for the Cell associated with the CELL_SGSNNODE	Y	Y	B1290823474.BSC & "/" & CellIndex & "/" & CGI	
<b>Configuration Attributes</b>					
CELL_SGSN NODE_Name	A user friendly name preferably unique for for the CELL_SGSNNODE			B1290823474.BSC & "/" & CellIndex & "/" & CGI & "/" & OpIndex & "/" & LABEL	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	
CELL_SGSN NODE_Versio	Hardware/Software version of the CELL			"V900R011"	

n	SGSNODE				
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### 5.12 Cell details

In the network hierarchy, the immediate parents of the Cell object are: PCU, Routing\_Area, Registration\_Area, BS and LAC.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
Cell_Id	A unique identifier for the Cell.	Y		B1275071424.BSC & "/" & ObjectID or B1275071435.BSC & "/" & ObjectID or B1275072525.BSC & "/" & ObjectID or B1275072526.BSC & "/" & ObjectID or B1275072527.BSC & "/" & ObjectID or B1275072528.BSC & "/" & ObjectID or B1275072617.BSC & "/" & ObjectID or B1275071441.BSC & "/" & ObjectID or B1275071817.BSC & "/" & ObjectID	
<b>Relationship Attributes</b>					
PCU_Id	A unique identifier for the PCU.	Y	Y	B1275071424."Populated by customer" or B1275071435."Populated by customer" or B1275072525."Populated by customer" or B1275072526."Populated by customer" or B1275072527."Populated by customer" or B1275072528."Populated by	

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				customer" or B1275072617."Populated by customer" or B1275071441."Populated by customer" or B1275071817."Populated by customer"	
NSVC_Id	A unique identifier for the NSVC.	Y	Y	B1275071424."Populated by customer" or B1275071435."Populated by customer" or B1275072525."Populated by customer" or B1275072526."Populated by customer" or B1275072527."Populated by customer" or B1275072528."Populated by customer" or B1275072617."Populated by customer" or B1275071441."Populated by customer" or B1275071817."Populated by customer"	
Routing_Area_Id	A unique identifier for the Routing_Area.	Y	Y	B1275071424."Populated by customer" or B1275071435."Populated by customer" or B1275072525."Populated by customer" or B1275072526."Populated by customer" or B1275072527."Populated by customer" or B1275072528."Populated by customer" or B1275072617."Populated by customer" or B1275071441."Populated by customer" or B1275071817."Populated by customer"	
SGSN_Id	A unique identifier for	Y	Y	B1275071424."Populated by	

	the SGSN.			customer" or B1275071435."Populated by customer" or B1275072525."Populated by customer" or B1275072526."Populated by customer" or B1275072527."Populated by customer" or B1275072528."Populated by customer" or B1275072617."Populated by customer" or B1275071441."Populated by customer" or B1275071817."Populated by customer"	
Registration_Area_Id	A unique identifier for the Registration_Area.	Y	Y	B1275071424."Populated by customer" or B1275071435."Populated by customer" or B1275072525."Populated by customer" or B1275072526."Populated by customer" or B1275072527."Populated by customer" or B1275072528."Populated by customer" or B1275072617."Populated by customer" or B1275071441."Populated by customer" or B1275071817."Populated by customer"	
BS_Id	A unique identifier for the BS at which the Cell is located. The BS at which the cell is located.	Y	Y	B1275071424."Populated by customer" or B1275071435."Populated by customer" or B1275072525."Populated by	

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				customer" or B1275072526."Populated by customer" or B1275072527."Populated by customer" or B1275072528."Populated by customer" or B1275072617."Populated by customer" or B1275071441."Populated by customer" or B1275071817."Populated by customer"	
LAC_Id	The Location Area Code encompassing the Cell.	Y	Y	B1275071424."Populated by customer" or B1275071435."Populated by customer" or B1275072525."Populated by customer" or B1275072526."Populated by customer" or B1275072527."Populated by customer" or B1275072528."Populated by customer" or B1275072617."Populated by customer" or B1275071441."Populated by customer" or B1275071817."Populated by customer"	
BSC_Id	A unique identifier for the BSC.	Y	Y	B1275071424.BSC or B1275071435.BSC or B1275072525.BSC or B1275072526.BSC or B1275072527.BSC or B1275072528.BSC or B1275072617.BSC or B1275071441.BSC or B1275071817.BSC	
MSC_Id	A unique identifier for the MSC.	Y	Y	B1275071424."Populated by customer" or B1275071435."Populated by customer" or	

				B1275072525."Populated by customer" or B1275072526."Populated by customer" or B1275072527."Populated by customer" or B1275072528."Populated by customer" or B1275072617."Populated by customer" or B1275071441."Populated by customer" or B1275071817."Populated by customer"	
Region_Id	Region associated with the Cell.	Y	Y	B1275071424.Region_Id or B1275071435.Region_Id or B1275072525.Region_Id or B1275072526.Region_Id or B1275072527.Region_Id or B1275072528.Region_Id or B1275072617.Region_Id or B1275071441.Region_Id or B1275071817.Region_Id	
Network_Id	Network associated with the Cell.	Y	Y	B1275071424.Network_Id or B1275071435.Network_Id or B1275072525.Network_Id or B1275072526.Network_Id or B1275072527.Network_Id or B1275072528.Network_Id or B1275072617.Network_Id or B1275071441.Network_Id or B1275071817.Network_Id	
GPRS_Cell_Id	A unique identifier for the Cell.	Y	Y	B1275071817.BSC & "/" & ObjectID	
UMTS_Cell_Id	A unique identifier for the Cell.	Y	Y	No mapping	
<b>Configuration Attributes</b>					
Cell_Name	A user friendly name			B1275071424.BSC & "/" &	

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	preferably unique for the Cell.			Label or B1275071435.BSC & "/" & Label or B1275072525.BSC & "/" & Label or B1275072526.BSC & "/" & Label or B1275072527.BSC & "/" & Label or B1275072528.BSC & "/" & Label or B1275072617.BSC & "/" & Label or B1275071441.BSC & "/" & Label or B1275071817.BSC & "/" & Label	
Cell_Type	Is the cell omni_directional, or a sector, or micro/pico/macro/umbrella cell, etc.			B1275071424."Populated by customer" or B1275071435."Populated by customer" or B1275072525."Populated by customer" or B1275072526."Populated by customer" or B1275072527."Populated by customer" or B1275072528."Populated by customer" or B1275072617."Populated by customer" or B1275071441."Populated by customer" or B1275071817."Populated by customer"	
Defined_TRX	Number of defined TRX belonging to the cell.			B1275071441.C1278093417	
Defined_TCH	Number of defined TCH channels of the Cell.			B1275071435.C1278087440	
Defined_CCH	Number of defined CCH channels for the Cell.			B1275071435.C1278087424	
Max_Power	The bs_tx_pwr_max configuration attribute.			B1275071424."Populated by customer" or B1275071435."Populated by customer" or B1275072525."Populated by customer" or	

				B1275072526."Populated by customer" or B1275072527."Populated by customer" or B1275072528."Populated by customer" or B1275072617."Populated by customer" or B1275071441."Populated by customer" or B1275071817."Populated by customer"	
Segment_Id	A unique identifier for the Segment.			B1275071424."Populated by customer" or B1275071435."Populated by customer" or B1275072525."Populated by customer" or B1275072526."Populated by customer" or B1275072527."Populated by customer" or B1275072528."Populated by customer" or B1275072617."Populated by customer" or B1275071441."Populated by customer" or B1275071817."Populated by customer"	
Cell_Version	Hardware/Software version of the Cell.			B1275071424."V900R011" or B1275071435."V900R011" or B1275072525."V900R011" or B1275072526."V900R011" or B1275072527."V900R011" or B1275072528."V900R011" or B1275072617."V900R011" or B1275071441."V900R011" or B1275071817."V900R011"	
Technology	Technology of the			B1275071424."GSM" or	

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	network/element (e.g. GSM, GPRS, UMTS).			B1275071435."GSM" or B1275072525."GSM" or B1275072526."GSM" or B1275072527."GSM" or B1275072528."GSM" or B1275072617."GSM" or B1275071441."GSM" or B1275071817."GSM"	
Cell_Description	Description of Cell.			B1275071424."Populated by customer" or B1275071435."Populated by customer" or B1275072525."Populated by customer" or B1275072526."Populated by customer" or B1275072527."Populated by customer" or B1275072528."Populated by customer" or B1275072617."Populated by customer" or B1275071441."Populated by customer" or B1275071817."Populated by customer"	
NSVC_CN_Id	A unique identifier for the NSVC CN.			B1275071817."Populated by customer"	
BVC_Id	A unique identifier for the BVC.			No mapping	
Defined_PDCCH	Designated Packet Data Channel.			B1275071817.C1278469488 + C1278469489	
Dedicated_PDCH	Dedicated Packet Data Channel.			B1275071817.C1278469488	
UTRAN_Absolute_Radio_Freq_UL	UL UTRAN absolute Radio Frequency Channel number.			No mapping	
UTRAN_Absolute_Radio_Freq_DL	DL UTRAN absolute Radio Frequency Channel number.			No mapping	
Primary_Scrambling	Primary DL scrambling			No mapping	

mbling_Code	code.				
Primary_Common_Pilot_Channel_Power	Primary CPICH channel power.			No mapping	
Primary_Sync_Channel_Power	Primary synchronisation channel power, DL.			No mapping	
Secondary_Sync_Channel_Power	Secondary synchronisation channel power, DL.			No mapping	
BCH_Power	Broadcast channel power.			No mapping	

### 5.13 Channel\_Optical\_Port details

In the network hierarchy, the immediate parent of the Channel\_Optical\_Port object is BSC.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
Channel_Optical_Port_Id	A unique identifier for the Channelized Optical Port	Y		B82834001.BSC & "/" & CHANNELIZED_OPTICAL_PORT	
<b>Relationship Attributes</b>					
Network_Id	Network associated with the Channelized Optical Port	Y	Y	B82834001.Network_Id	
Region_Id	Region associated with the Channelized Optical Port	Y	Y	B82834001.Region_Id	
BSC_Id	A unique identifier for the BSC associated with the Channelized Optical Port	Y	Y	B82834001.BSC	

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<b>Configuration Attributes</b>					
Channel_Optical_Port_Name	A user friendly name preferably unique for for the Channelized Optical Port			B82834001.BSC & "/" & CHANNELIZED_OPTICAL_PORT	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	
Channel_Optical_Port_Version	Hardware/Software version of the Channelized Optical Port			"V900R011"	

## 5.14 DPC\_Group details

In the network hierarchy, the immediate parent of the DPC\_Group object is BSC.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
DPC_Group_Id	A unique identifier for the DPC_Group.	Y		B1275069618.BSC & "/" & ObjectID	
<b>Relationship Attributes</b>					
Network_Id	Network associated with the DPC_Group.	Y	Y	B1275069618.Network_Id	
BSC_Id	BSC containing the DPC_Group.	Y	Y	B1275069618.BSC	
Region_Id	Region associated with the DPC_Group.	Y	Y	B1275069618.Region_Id	
<b>Configuration Attributes</b>					
DPC_Group_Name	A user friendly name preferably unique for the DPC_Group.			B1275069618.BSC & "/" & ObjectID	
Node_Id	This is the identifier for the network element containing the			B1275069618.BSC	

	DPC_Group.				
Node_Type	The type of the network element containing the DPC_Group.			"BSC"	
DPC_Group_Version	Hardware/Software version of the DPC_Group.			"V900R011"	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	

### 5.15 E1T1 details

In the network hierarchy, the immediate parent of the E1T1 object is BSC.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
E1T1_Id	A unique identifier for the E1T1	Y		B67109487.BSC &"/" & PortNo &"/" & SlotNo &"/" & SubrackNo	
<b>Relationship Attributes</b>					
Network_Id	Network associated with the E1T1	Y	Y	B67109487.Network_Id	
Region_Id	Region associated with the E1T1	Y	Y	B67109487.Region_Id	
BSC_Id	A unique identifier for the BSC associated with the E1T1	Y	Y	B67109487.BSC	
<b>Configuration Attributes</b>					
E1T1_Name	A user friendly name preferably unique for for			B67109487.BSC &"/" & PortNo &"/" & SlotNo &"/" &	

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	the E1T1			SubrackNo	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS)			"GSM"	
E1T1_Version	Hardware/Software version of the E1T1			"V900R011"	

## 5.16 Ethernet\_Port details

In the network hierarchy, the immediate parent of the Ethernet\_Port object is Region.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
Ethernet_Port_Id	A unique identifier for the Ethernet_Port.	Y		B1275072317.BSC & "/" & PortNo & "/" & SlotNo & "/" & SubrackNo	
<b>Relationship Attributes</b>					
Network_Id	Network associated with the Ethernet_Port.	Y	Y	B1275072317.Network_Id	
Region_Id	Region associated with the Ethernet_Port.	Y	Y	B1275072317.Region_Id	
<b>Configuration Attributes</b>					
Ethernet_Port_Name	A user friendly name preferably unique for the Ethernet_Port.			B1275072317.BSC & "/" & PortNo & "/" & SlotNo & "/" & SubrackNo	
Node_Id	Node associated with the Ethernet_Port.			B1275072317.BSC	
Node_Type	Node Type associated with the Ethernet_Port.			"BSC"	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	
Ethernet_Port_Version	Hardware/Software version of the			"V900R011"	

Ethernet_Port.				
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### 5.17 FEGE details

In the network hierarchy, the immediate parent of the FEGE object is BSC.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
FEGE_Id	A unique identifier for the FEGE	Y		B67109488.BSC &"/" & PortNo &"/" & SlotNo &"/" & SubrackNo	
<b>Relationship Attributes</b>					
Network_Id	Network associated with the FEGE	Y	Y	B67109488.Network_Id	
Region_Id	Region associated with the FEGE	Y	Y	B67109488.Region_Id	
BSC_Id	A unique identifier for the BSC associated with the FEGE	Y	Y	B67109488.BSC	
<b>Configuration Attributes</b>					
FEGE_Name	A user friendly name preferably unique for for the FEGE			B67109488.BSC &"/" & PortNo &"/" & SlotNo &"/" & SubrackNo	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS)			"GSM"	
FEGE_Versio n	Hardware/Software version of the FEGE			"V900R011"	

### 5.18 FIBER details

In the network hierarchy, the immediate parent of the FIBER object is BSC.

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Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
FIBER_Id	A unique identifier for the FIBER	Y		B67109549.BSC & "/" & ObjectID	
<b>Relationship Attributes</b>					
Network_Id	Network associated with the FIBER	Y	Y	B67109549.Region_Id	
Region_Id	Region associated with the FIBER	Y	Y	B67109549.Region_Id	
BSC_Id	A unique identifier for the BSC associated with the FIBER	Y	Y	B67109549.BSC	
<b>Configuration Attributes</b>					
FIBER_Name	A user friendly name preferably unique for for the FIBER			B67109549.BSC & "/" & ObjectID	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS)			"GSM"	
FIBER_Versi on	Hardware/Software version of the FIBER			"V900R011"	

## 5.19 HDLC\_Link details

In the network hierarchy, the immediate parent of the HDLC\_Link object is BSC.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
HDLC_Link_ Id	A unique identifier for the HDLC_Link.	Y		B1275070219.BSC & "/" & HDLCLinkNo or B1275072417.BSC & "/" & HDLCLinkNo or	

				B1275069432.BSC & "/" & HDLCLinkNo or B82833949.BSC & "/" & HDLCLinkNo	
<b>Relationship Attributes</b>					
BSC_Id	A unique identifier for the BSC associated with the HDLC_Link.	Y	Y	B1275070219.BSC or B1275072417.BSC or B1275069432.BSC or B82833949.BSC	
Network_Id	Network associated with the HDLC_Link.	Y	Y	B1275070219.Network_Id or B1275072417.Network_Id or B1275069432.Network_Id or B82833949.Network_Id	
Region_Id	Region associated with the HDLC_Link.	Y	Y	B1275070219.Region_Id or B1275072417.Region_Id or B1275069432.Region_Id or B82833949.Region_Id	
<b>Configuration Attributes</b>					
HDLC_Link_Name	A user friendly name preferably unique for the HDLC_Link.			B1275070219.BSC & "/" & HDLCLinkNo or B1275072417.BSC & "/" & HDLCLinkNo or B1275069432.BSC & "/" & HDLCLinkNo or B82833949.BSC & "/" & HDLCLinkNo	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			B1275070219."GSM" or B1275072417."GSM" or B1275069432."GSM" or B82833949."GSM"	
HDLC_Link_Version	Hardware/Software version of the HDLC_Link.			B1275070219."V900R011" or B1275072417."V900R011" or B1275069432."V900R011" or B82833949."V900R011"	

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## 5.20 IPPATH\_BSC details

In the network hierarchy, the immediate parent of the IPPATH\_BSC object is BSC.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
IPPATH_BS C_Id	A unique identifier for the IPPATH_BSC	Y		B67109495.BSC & "/" & ObjectID or B67109540.BSC & "/" & ObjectID & "/" & QOSID or B67109539.BSC & "/" & ObjectID & "/" & PHB	
<b>Relationship Attributes</b>					
Network_Id	Network associated with the IPPATH_BSC	Y	Y	B67109495.Network_Id or B67109540.Network_Id or B67109539.Network_Id	
Region_Id	Region associated with the IPPATH_BSC	Y	Y	B67109495.Region_Id or B67109540.Region_Id or B67109539.Region_Id	
BSC_Id	A unique identifier for the BSC associated with the IPPATH_BSC	Y	Y	B67109495.BSC or B67109540.BSC or B67109539.BSC	
<b>Configuration Attributes</b>					
IPPATH_BS C_Name	A user friendly name preferably unique for for the IPPATH_BSC			B67109495.BSC & "/" & ObjectID or B67109540.BSC & "/" & ObjectID & "/" & QOSID or B67109539.BSC & "/" & ObjectID & "/" & PHB	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS)			B67109495."GSM" or B67109540."GSM" or B67109539."GSM"	
IPPATH_BS C_Version	Hardware/Software version of the IPPATH_BSC.			B67109495."V900R011" or B67109540."V900R011" or B67109539."V900R011"	

## 5.21 IPPATH\_Link details

In the network hierarchy, the immediate parent of the IPPATH\_Link object is BSC.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
IPPATH_LINK_Id	A unique identifier for the IPPATH_LINK	Y		B67109467.BSC & "/" & ObjectID	
<b>Relationship Attributes</b>					
Network_Id	Network associated with the IPPATH_LINK	Y	Y	B67109467.Network_Id	
Region_Id	Region associated with the IPPATH_LINK	Y	Y	B67109467.Region_Id	
BSC_Id	A unique identifier for the BSC associated with the IPPATH_LINK	Y	Y	B67109467.BSC	
<b>Configuration Attributes</b>					
IPPATH_LINK_Name	A user friendly name preferably unique for for the IPPATH_LINK			B67109467.BSC & "/" & ObjectID	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS)			"GSM"	
IPPATH_LINK_Version	Hardware/Software version of the IPPATH_LINK			"V900R011"	

## 5.22 LAPD details

In the network hierarchy, the immediate parent of the LAPD object is BSC.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
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Primary Identifier					
LAPD_Id	A unique identifier for the LAPD.	Y			B1275068427.BSC & "/" & LogicNo or B1275069427.BSC & "/" & LogicNo or B1275071219.BSC & "/" & LogicNo or B1275071436.BSC & "/" & LogicNo
Relationship Attributes					
SGSN_Id	A unique identifier for the SGSN.	Y	Y		lookup("nc_bsc","sgsn_id",utime(StartDate & StartTime,"%Y-%m-%d %R"), B1275068427.BSC) or lookup("nc_bsc","sgsn_id",utime(StartDate & StartTime,"%Y-%m-%d %R"), B1275069427.BSC) or lookup("nc_bsc","sgsn_id",utime(StartDate & StartTime,"%Y-%m-%d %R"), B1275071219.BSC) or lookup("nc_bsc","sgsn_id",utime(StartDate & StartTime,"%Y-%m-%d %R"), B1275071436.BSC)
BS_Id	A unique identifier for the BS, at the BS end of LAPD link.	Y	Y		No mapping
BSC_Id	A unique identifier for the BSC, at the BSC end of LAPD link.	Y	Y		B1275068427.BSC or B1275069427.BSC or B1275071219.BSC or B1275071436.BSC
MSC_Id	A unique identifier for the MSC.	Y	Y		lookup("nc_bsc","msc_id",utime(StartDate & StartTime,"%Y-%m-%d %R"), B1275068427.BSC) or lookup("nc_bsc","msc_id",utime(StartDate & StartTime,"%Y-%m-%d %R"), B1275069427.BSC) or lookup("nc_bsc","msc_id",utime(StartDate & StartTime,"%Y-%m-%d %R"), B1275071219.BSC) or lookup("nc_bsc","msc_id",utime(StartDate & StartTime,"%Y-%m-%d %R"), B1275071436.BSC)

				B1275071219.BSC) or lookup("nc_bsc","msc_id",utime(StartDate & StartTime,"%Y-%m-%d %R"), B1275071436.BSC)	
Region_Id	Region associated with the LAPD.	Y	Y	B1275068427.Region_Id or B1275069427.Region_Id or B1275071219.Region_Id or B1275071436.Region_Id	
Network_Id	Network associated with the LAPD.	Y	Y	B1275068427.Network_Id or B1275069427.Network_Id or B1275071219.Network_Id or B1275071436.Network_Id	
<b>Configuration Attributes</b>					
LAPD_Name	A user friendly name preferably unique for the LAPD.			B1275068427.BSC & "/" & LogicNo or B1275069427.BSC & "/" & LogicNo or B1275071219.BSC & "/" & LogicNo or B1275071436.BSC & "/" & LogicNo	
LAPD_Version	Hardware/Software version of the LAPD.			B1275068427."V900R011" or B1275069427."V900R011" or B1275071219."V900R011" or B1275071436."V900R011"	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			B1275068427."GSM" or B1275069427."GSM" or B1275071219."GSM" or B1275071436."GSM"	

### 5.23 Logic\_Port\_BSC details

In the network hierarchy, the immediate parent of the Logic\_Port\_BSC object is BSC.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggregator
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<b>Primary Identifier</b>					
Logic_Port_B SC_Id	A unique identifier for the Logic_Port_BSC	Y			B1275073317.BSC & "/" & ObjectID or B67109524.BSC & "/" & ObjectID or B67109541.BSC & "/" & ObjectID & "/" & PQN
<b>Relationship Attributes</b>					
Network_Id	Network associated with the Logic_Port_BSC	Y	Y		B1275073317.Network_Id or B67109524.Network_Id or B67109541.Network_Id
Region_Id	Region associated with the Logic_Port_BSC	Y	Y		B1275073317.Region_Id or B67109524.Region_Id or B67109541.Region_Id
BSC_Id	A unique identifier for the BSC associated with the Logic_Port_BSC	Y	Y		B1275073317.BSC or B67109524.BSC or B67109541.BSC
<b>Configuration Attributes</b>					
Logic_Port_B SC_Name	A user friendly name preferably unique for for the Logic_Port_BSC				B1275073317.BSC & "/" & ObjectID or B67109524.BSC & "/" & ObjectID or B67109541.BSC & "/" & ObjectID & "/" & PQN
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS)				B1275073317."GSM" or B67109524."GSM" or B67109541."GSM"
Logic_Port_B SC_Version	Hardware/Software version of the Logic_Port_BSC				B1275073317."V900R011" or B67109524."V900R011" or B67109541."V900R011"

## 5.24 M3UA\_Dest details

In the network hierarchy, the immediate parents of the M3UA\_Dest object are: BSC, MSC, MGW, RNC and SGSN.

<b>Attribute Name</b>	<b>Description</b>	<b>Read - Only ?</b>	<b>Time-Track ed?</b>	<b>Mapping</b>	<b>Aggrega tor</b>

<b>Primary Identifier</b>					
M3UA_Dest_Id	Primary identifier of the M3UA Destination Point Code (DPC)	Y		B1275072117.BSC & "/" & EntityIndex or B67109484.BSC & "/" & EntityIndex	
<b>Relationship Attributes</b>					
Network_Id	Identifier of the Network	Y	Y	B1275072117.Network_Id or B67109484.Network_Id	
Region_Id	Identifier of the region	Y	Y	B1275072117.Region_Id or B67109484.Region_Id	
BSC_Id	A unique identifier for the BSC.	Y	Y	B1275072117.BSC or B67109484.BSC	
MSC_Id	A unique identifier for the MSC.	Y	Y	No mapping	
MGW_Id	A unique identifier for the MGW.	Y	Y	No mapping	
RNC_Id	A unique identifier for the RNC.	Y	Y	No mapping	
SGSN_Id	A unique identifier for the SGSN.	Y	Y	No mapping	
<b>Configuration Attributes</b>					
M3UA_Dest_Name	Meaningful name of the M3UA DPC			B1275072117.BSC & "/" & EntityIndex or B67109484.BSC & "/" & EntityIndex	
Node_Id	Identifier of the node (e.g. SGSN or MSC)			B1275072117.BSC or B67109484.BSC	
Node_Type	Type of the node (e.g. SGSN or MSC)			B1275072117."BSC" or B67109484."BSC"	

### 5.25 M3UA\_Link details

In the network hierarchy, the immediate parent of the M3UA\_Link object is M3UA\_LinkSet.

Attribute	Description	Read	Time-	Mapping	Aggrega
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Name		- Only ?	Track ed?		tor
<b>Primary Identifier</b>					
M3UA_Link_Id	Identifier of the M3UA link	Y		B1275072118.BSC & "/" & CPUNo & "/" & M3UALinkNo & "/" & SlotNo & "/" & SubrackNo or B67109482.BSC & "/" & ObjectID	
<b>Relationship Attributes</b>					
M3UA_LinkSet_Id	Identifier of the M3UA LinkSet.	Y	Y	B1275072118."Populated by customer" or B67109482."Populated by customer"	
Network_Id	Network associated with M3UA link	Y	Y	B1275072118.Network_Id or B67109482.Network_Id	
Region_Id	Region associated with M3UA link	Y	Y	B1275072118.Region_Id or B67109482.Region_Id	
M3UA_Dest_Id	Identifier of the M3UA Destination Point.	Y	Y	B1275072118."Populated by customer" or B67109482."Populated by customer"	
<b>Configuration Attributes</b>					
M3UA_Link_Name	User friendly name of M3UA link			B1275072118.BSC & "/" & CPUNo & "/" & M3UALinkNo & "/" & SlotNo & "/" & SubrackNo or B67109482.BSC & "/" & ObjectID	
Link_Number	LNKN for M3UA link			B1275072118.M3UALinkNo or B67109482.ObjectID	
Module_Number	Module identifier for M3UA link			B1275072118."Populated by customer" or B67109482."Populated by customer"	
Node_Id	Node identifier associated with this M3UA link			B1275072118.BSC or B67109482.BSC	
Node_Name	The name of the Node			B1275072118.BSC or	

	associated with the M3UA Link			B67109482.BSC	
Node_Type	The type of the Node associated with the M3UA Link			B1275072118."BSC" or B67109482."BSC"	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			B1275072118."GSM" or B67109482."GSM"	
M3UA_Link_Version	Hardware/Software version of the M3UA_Link.				

## 5.26 M3UA\_LinkSet details

In the network hierarchy, the immediate parents of the M3UA\_LinkSet object are: BSC, MSC, MGW, RNC and SGSN.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
M3UA_LinkSet_Id	Unique identifier for M3UA linkset	Y		B67109483.BSC & "/" & ObjectID	
<b>Relationship Attributes</b>					
M3UA_Dest_Id	Identifier of the M3UA Destination Point	Y	Y	"Populated by customer"	
Region_Id	Identifier of the Region	Y	Y	B67109483.Region_Id	
Network_Id	Network associated with M3UA link	Y	Y	B67109483.Network_Id	
BSC_Id	A unique identifier for the BSC.	Y	Y	B67109483.BSC	
MSC_Id	A unique identifier for	Y	Y	No mapping	

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	the MSC.				
MGW_Id	A unique identifier for the MGW.	Y	Y	No mapping	
RNC_Id	A unique identifier for the RNC.	Y	Y	No mapping	
SGSN_Id	A unique identifier for the SGSN.	Y	Y	No mapping	
<b>Configuration Attributes</b>					
M3UA_LinkSet_Name	User friendly name for M3UA link			B67109483.BSC & "/" & ObjectID	
Node_Id	The Node (MSC, MGW) that this M3UA LinkSet is connected to (at this end).			"Populated by customer"	
Node_Type	The type of the Node associated with the M3UA Linkset			"Populated by customer"	
Node_Name	The Name of the Node associated with the M3UA Linkset			"Populated by customer"	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	

## 5.27 MLPPP\_BSC details

In the network hierarchy, the immediate parent of the MLPPP\_BSC object is BSC.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
MLPPP_BSC_Id	A unique identifier for the MLPPP_BSC	Y		B67109490.BSC & "/" & ObjectID or B67109542.BSC & "/" & ObjectID & "/" & GRPQID	
<b>Relationship Attributes</b>					

Network_Id	Network associated with the MLPPP_BSC	Y	Y	B67109490.Network_Id or B67109542.Network_Id	
Region_Id	Region associated with the MLPPP_BSC	Y	Y	B67109490.Region_Id or B67109542.Region_Id	
BSC_Id	A unique identifier for the BSC associated with the MLPPP_BSC	Y	Y	B67109490.BSC or B67109542.BSC	
<b>Configuration Attributes</b>					
MLPPP_BSC_Name	A user friendly name preferably unique for for the MLPPP_BSC			B67109490.BSC & "/" & ObjectID or B67109542.BSC & "/" & ObjectID & "/" & GRPQID	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS)			B67109490."GSM" or B67109542."GSM"	
MLPPP_BSC_Version	Hardware/Software version of the MLPPP_BSC			B67109490."V900R011" or B67109542."V900R011"	

## 5.28 MTP2Link details

In the network hierarchy, the immediate parent of the MTP2Link object is BSC.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
MTP2Link_Id	A unique identifier for the MTP2Link	Y		B1290793530.BSC & "/" & LKS & "/" & SLC	
<b>Relationship Attributes</b>					
Network_Id	Network associated with the MTP2Link	Y	Y	B1290793530.Network_Id	
Region_Id	Region associated with the MTP2Link	Y	Y	B1290793530.Region_Id	

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BSC_Id	A unique identifier for the MTP2Link.	Y	Y	B1290793530.BSC	
<b>Configuration Attributes</b>					
MTP2Link_Name	A user friendly name preferably unique for for the MTP2Link			B1290793530.BSC & "/" & LKS & "/" & SLC	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS)			"GSM"	
MTP2Link_Version	Hardware/Software version of the MTP2Link			"V900R011"	

## 5.29 MTP3\_DSP details

In the network hierarchy, the immediate parent of the MTP3\_DSP object is BSC.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
MTP3_DSP_Id	A unique identifier for the MTP3_DSP	Y		B67109550.BSC & "/" & Label & "/" & DPX	
<b>Relationship Attributes</b>					
Network_Id	Network associated with the MTP3_DSP	Y	Y	B67109550.Network_Id	
Region_Id	Region associated with the MTP3_DSP	Y	Y	B67109550.Region_Id	
BSC_Id	A unique identifier for the BSC associated with the MTP3_DSP.	Y	Y	B67109550.BSC	
<b>Configuration Attributes</b>					
MTP3_DSP_Name	A user friendly name preferably unique for for the MTP3_DSP			B67109550.BSC & "/" & Label & "/" & DPX	
Technology	Technology of the network/element (e.g.			"GSM"	

	GSM, GPRS, UMTS)				
MTP3_DSP_Version	Hardware/Software version of the MTP3_DSP			"V900R011"	

### 5.30 MTP3\_Link details

In the network hierarchy, the immediate parent of the MTP3\_Link object is MTP3\_LinkSet.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
MTP3_Link_I d	Primary Identifier of the MTP3 link.	Y		B1275068420.BSC & "/" & LinkSetNo & "/" & LinkNo & "/" & Spuframe & "/" & CiuSlot or B67109551.BSC & "/" & LKS & "/" & SLC	
<b>Relationship Attributes</b>					
MTP3_LinkS et_Id	Identifier of the MTP3 LinkSet.	Y	Y	B1275068420.BSC & "/" & LinkSetNo & "/" & Spuframe & "/" & CiuSlot or B67109551."Populated by customer"	
Network_Id	Identifier of the Network	Y	Y	B1275068420.Network_Id or B67109551.Network_Id	
Region_Id	Identifier of the region	Y	Y	B1275068420.Region_Id or B67109551.Region_Id	
MTP3_LinkP oint_Id	Identifier of the MTP3 DPC.	Y	Y	No mapping	
<b>Configuration Attributes</b>					
MTP3_Link_ Name	Meaningful name for the MTP3 Link			B1275068420.BSC & "/" & Label or B67109551.BSC & "/" & LKS & "/" & SLC	

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Node_Id	Identifier of the Node (e.g. SGSN or MSC)			B1275068420.BSC or B67109551.BSC	
Node_Type	Type of the Node (e.g. SGSN or MSC)			B1275068420."BSC" or B67109551."BSC"	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			B1275068420."GSM" or B67109551."GSM"	
Node_Name	The name of the Node associated with the MTP3 Link			No mapping	
Link_Number	LNKN for MTP3 link			No mapping	
Module_Number	Module identifier for MTP3 link			No mapping	

### 5.31 MTP3\_LinkSet details

In the network hierarchy, the immediate parents of the MTP3\_LinkSet object are: BSC, MGW, RNC, SGSN and MSC.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
MTP3_LinkSet_Id	Primary identifier of the MTP3 LinkSet.	Y		B1275068420.BSC & "/" & LinkSetNo & "/" & Spuframe & "/" & CiuSlot or B67109552.BSC & "/" & Label & "/" & Index	
<b>Relationship Attributes</b>					
MTP3_LinkPoint_Id	Identifier of the MTP3 DPC.	Y	Y	B1275068420."Populated by customer" or B67109552."Populated by customer"	
Network_Id	Identifier of the Network	Y	Y	B1275068420.Network_Id or B67109552.Network_Id	
Region_Id	Identifier of the Region	Y	Y	B1275068420.Region_Id or B67109552.Region_Id	

BSC_Id	A unique identifier for the BSC.	Y	Y	B1275068420.BSC or B67109552.BSC	
MGW_Id	A unique identifier for the MGW.	Y	Y	No mapping	
RNC_Id	A unique identifier for the RNC.	Y	Y	No mapping	
SGSN_Id	A unique identifier for the SGSN.	Y	Y	No mapping	
MSC_Id	A unique identifier for the MSC.	Y	Y	B1275068420."Populated by customer" or B67109552."Populated by customer"	
<b>Configuration Attributes</b>					
MTP3_LinkSet_Name	Meaningful name of the MTP3 LinkSet.			B1275068420.BSC & "/" & LinkSetNo & "/" & Spuframe & "/" & CiuSlot or B67109552.BSC & "/" & Label & "/" & Index	
Node_Id	Identifier of the Node (e.g. SGSN or MSC)			B1275068420.BSC or B67109552.BSC	
Node_Type	Type of the Node			B1275068420."BSC" or B67109552."BSC"	
Node_Name	The Name of the Node associated with the MTP3 Linkset			No mapping	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			B1275068420."GSM" or B67109552."GSM"	

### 5.32 Neighbour details

In the network hierarchy, the immediate parent of the Neighbour object is Cell.

Attribute Name	Description	Read -	Time-Track	Mapping	Aggregator
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		Only ?	ed?		
<b>Primary Identifier</b>					
Neighbour_Id	A unique identifier for the Neighbour.	Y		B1275071432.BSC & "/" & ObjectID & "/" & CGI or B1275071433.BSC & "/" & ObjectID & "/" & CGI or B1275071620.BSC & "/" & Cellindex & "/" & BCCH & "/" & BCC & "/" & NCC	
<b>Relationship Attributes</b>					
Source_Cell_Id	A unique identifier for the Cell_Id of the Cell that is handling calls.	Y	Y	B1275071432.BSC & "/" & ObjectID or B1275071433.BSC & "/" & ObjectID or B1275071620.BSC & "/" & Cellindex	
<b>Configuration Attributes</b>					
Neighbour_Name	A user friendly name preferably unique for the Neighbour.			B1275071432.BSC & "/" & Label & "/" & CGI or B1275071433.BSC & "/" & Label & "/" & CGI or B1275071620.BSC & "/" & Label & "/" & BCCH & "/" & BCC & "/" & NCC	
Target_Cell_Id	A unique identifier for the Cell_Id of the Cell that is receiving handed-over calls.			B1275071432.CGI or B1275071433.CGI or B1275071620.BCCH & "/" & BCC & "/" & NCC	
Source_Cell_Type	Type of Source Cell.			B1275071432."Populated by customer" or B1275071433."Populated by customer" or B1275071620."Populated by customer"	
Target_Cell_Type	Type of Target Cell.			B1275071432."Populated by customer" or B1275071433."Populated by customer" or B1275071620."Populated by customer"	

Source_Cell_Version	Hardware/Software version of the Source Cell.			B1275071432."V900R011" or B1275071433."V900R011" or B1275071620."V900R011"	
Target_Cell_Version	Hardware/Software version of the Target Cell.			B1275071432."Populated by customer" or B1275071433."Populated by customer" or B1275071620."Populated by customer"	
Source_Cell_Vendor	Manufacturer of the Source Cell.			B1275071432."Huawei" or B1275071433."Huawei" or B1275071620."Huawei"	
Target_Cell_Vendor	Manufacturer of the Target Cell.			B1275071432."Populated by customer" or B1275071433."Populated by customer" or B1275071620."Populated by customer"	
Source_Cell_Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			B1275071432."GSM" or B1275071433."GSM" or B1275071620."GSM"	
Target_Cell_Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			B1275071432."GSM" or B1275071433."GSM" or B1275071620."GSM"	
Target_Cell_Position	Position of Target Cell.			B1275071432."Populated by customer" or B1275071433."Populated by customer" or B1275071620."Populated by customer"	

### 5.33 Network details

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
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<b>Primary Identifier</b>					
Network_Id	A unique identifier for the Network.	Y		B1275070617.Network_Id or B1275072018.Network_Id or B1275073217.Network_Id	
<b>Configuration Attributes</b>					
Network_Name	A user friendly name preferably unique for the Network.			B1275070617.Network_Id or B1275072018.Network_Id or B1275073217.Network_Id	
Network_Type	Type of Network (e.g. GSM-900, GSM-1800 or GSM-1900).			B1275070617."Populated by customer" or B1275072018."Populated by customer" or B1275073217."Populated by customer"	
Default_Link_Speed	The default speed of SS7 Signalling Links in this network.			B1275070617."Populated by customer" or B1275072018."Populated by customer" or B1275073217."Populated by customer"	

### 5.34 NonChannel\_OpticalPort details

In the network hierarchy, the immediate parent of the NonChannel\_OpticalPort object is BSC.

<b>Attribute Name</b>	<b>Description</b>	<b>Read - Only ?</b>	<b>Time-Track ed?</b>	<b>Mapping</b>	<b>Aggrega tor</b>
<b>Primary Identifier</b>					
NonChannel_Optical_Port_Id	A unique identifier for the NonChannelized Optical Port	Y		B82834002.BSC & "/" & NON_CHANNELIZED_OPTICAL_PORT or B82834003.BSC & "/" & NON_CHANNELIZED_OPTICAL_PORT	
<b>Relationship Attributes</b>					
Network_Id	Network associated with the NonChannelized Optical Port	Y	Y	B82834002.Network_Id or B82834003.Network_Id	

Region_Id	Region associated with the NonChannelized Optical Port	Y	Y	B82834002.Region_Id or B82834003.Region_Id	
BSC_Id	A unique identifier for the BSC associated with the NonChannelized Optical Port	Y	Y	B82834002.BSC or B82834003.BSC	
<b>Configuration Attributes</b>					
NonChannel_Optical_Port_Name	A user friendly name preferably unique for for the NonChannelized Optical Port			B82834002.BSC & "/" & NON_CHANNELIZED_OPTICAL_PORT or B82834003.BSC & "/" & NON_CHANNELIZED_OPTICAL_PORT	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			B82834002."GSM" or B82834003."GSM"	
NonChannel_OpticalPort_Version	Hardware/Software version of the NonChannelized Optical Port			B82834002."V900R011" or B82834003."V900R011"	

### 5.35 NSVC details

In the network hierarchy, the immediate parents of the NSVC object are: SGSN, PCU and Bearer.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
NSVC_Id	A unique identifier for the NSVC.	Y		B1275072817.BSC & "/" & ObjectID	
<b>Relationship Attributes</b>					

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SGSN_Id	A unique identifier for the SGSN.	Y	Y	"Populated by customer"	
PCU_Id	A unique identifier for the PCU.	Y	Y	"Populated by customer"	
Bearer_Id	A unique identifier for the Bearer.	Y	Y	"Populated by customer"	
DLCI_Id	A unique identifier for the DLCI.	Y	Y	"Populated by customer"	
Region_Id	Region associated with the NSVC.	Y	Y	B1275072817.Region_Id	
Network_Id	Network associated with the NSVC.	Y	Y	B1275072817.Network_Id	
<b>Configuration Attributes</b>					
NSVC_Name	A user friendly name preferably unique for the NSVC.			B1275072817.BSC & "/" & ObjectID	
NSE_Id	A unique identifier for the NSE.			B1275072817.BSC & "/" & NSEObjectID	
NSE_Name	A user friendly name preferably unique for the NSE.			B1275072817.BSC & "/" & NSEObjectID	
CIR	Committed Information Rate of the NSVC.			No mapping	
DLCI_CN_Id	A unique identifier for the DLCI CN.			"Populated by customer"	
Bearer_CN_Id	A unique identifier for the Bearer CN.			"Populated by customer"	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	

### 5.36 NSVL details

In the network hierarchy, the immediate parents of the NSVL object are: PCU, NSVC, SGSN and BSC.

Attribute	Description	Read	Time-	Mapping	Aggrega
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Name		- Only ?	Track ed?		tor
<b>Primary Identifier</b>					
NSVL_Id	A unique identifier for the NSVL.	Y		B1275072818.BSC & "/" & localNSVLidentifier	
<b>Relationship Attributes</b>					
PCU_Id	A unique identifier of the PCU associated with the NSVL.	Y	Y	"Populated by customer"	
NSVC_Id	A unique identifier of the NSVC associated with the NSVL.	Y	Y	"Populated by customer"	
SGSN_Id	A unique identifier of the SGSN associated with the NSVL.	Y	Y	"Populated by customer"	
BSC_Id	A unique identifier of the BSC associated with the NSVL.	Y	Y	B1275072818.BSC	
Network_Id	Network associated with the NSVL.	Y	Y	B1275072818.Network_Id	
Region_Id	Region associated with the NSVL.	Y	Y	B1275072818.Region_Id	
<b>Configuration Attributes</b>					
NSVL_Name	A user friendly name preferably unique for the NSVL.			B1275072818.BSC & "/" & localNSVLidentifier	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	
NSVL_Version	Hardware/Software version of the NSVL.			"V900R011"	

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### 5.37 PCU details

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

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
PCU_Id	A unique identifier for the PCU.	Y		B1275070017.BSC & "/" & ObjectID or B1275071017.BSC & "/" & ObjectID	
<b>Relationship Attributes</b>					
SGSN_Id	A unique identifier for the SGSN.	Y	Y	B1275070017."Populated by customer" or B1275071017."Populated by customer"	
NSVC_Id	A unique identifier for the NSVC.	Y	Y	B1275070017."Populated by customer" or B1275071017."Populated by customer"	
Region_Id	Region associated with the PCU.	Y	Y	B1275070017.Region_Id or B1275071017.Region_Id	
Network_Id	Network associated with the PCU.	Y	Y	B1275070017.Network_Id or B1275071017.Network_Id	
<b>Configuration Attributes</b>					
PCU_Name	A user friendly name preferably unique for the PCU.			B1275070017.BSC & "/" & ObjectID or B1275071017.BSC & "/" & ObjectID	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			B1275070017."GSM" or B1275071017."GSM"	
PCU_Version	Hardware/Software version of the PCU.			B1275070017."V900R011" or B1275071017."V900R011"	

### 5.38 PORT\_ABIS details

In the network hierarchy, the immediate parent of the PORT\_ABIS object is BSC.

Attribute	Description	Read	Time-	Mapping	Aggrega
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Name		- Only ?	Track ed?		tor
<b>Primary Identifier</b>					
Port_ABIS_Id	A unique identifier for the Port_ABIS	Y		B1275070117.BSC & "/" & ObjectID	
<b>Relationship Attributes</b>					
Network_Id	Network associated with the Port_ABIS	Y	Y	B1275070117.Network_Id	
Region_Id	Region associated with the Port_ABIS	Y	Y	B1275070117.Region_Id	
BSC_Id	A unique identifier for the BSC associated with the Port_ABIS	Y	Y	B1275070117.BSC	
<b>Configuration Attributes</b>					
Port_ABIS_Name	A user friendly name preferably unique for for the Port_ABIS			B1275070117.BSC & "/" & ObjectID	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS)			"GSM"	
Port_ABIS_Version	Hardware/Software version of the Port_ABIS			"V900R011"	

### 5.39 PPP\_BSC details

In the network hierarchy, the immediate parent of the PPP\_BSC object is BSC.

Attribute Name	Description	Read - Only ?	Time- Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
PPP_BSC_Id	A unique identifier for	Y		B67109491.BSC & "/" &	

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	the PPP_BSC			ObjectID or B67109543.BSC & "/" & ObjectID & "/" & PPPLNKQN	
<b>Relationship Attributes</b>					
Network_Id	Network associated with the PPP_BSC	Y	Y	B67109491.Network_Id or B67109543.Network_Id	
Region_Id	Region associated with the PPP_BSC	Y	Y	B67109491.Region_Id or B67109543.Region_Id	
BSC_Id	A unique identifier for the BSC associated with the PPP_BSC	Y	Y	B67109491.BSC or B67109543.BSC	
<b>Configuration Attributes</b>					
PPP_BSC_Name	A user friendly name preferably unique for for the PPP_BSC			B67109491.BSC & "/" & ObjectID or B67109543.BSC & "/" & ObjectID & "/" & PPPLNKQN	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS)			B67109491."GSM" or B67109543."GSM"	
PPP_BSC_Version	Hardware/Software version of the PPP_BSC			B67109491."V900R011" or B67109543."V900R011"	

## 5.40 Processor details

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

This object is used for Data Availability tracking

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
Processor_Id	A unique identifier for the Processor.	Y		B1275068428.BSC & "/" & CPUNo & "/" & SlotNo & "/" & SubrackNo or B67109516.BSC & "/" & ObjectID or B67109493.BSC & "/" & ObjectID or B82833961.BSC & "/" & ObjectID or	

				B67109515.BSC & "/" & ObjectID or B82833917.BSC & "/" & ObjectID or B1290793512.BSC & "/" & ObjectID	
<b>Relationship Attributes</b>					
Region_Id	Region associated with the Processor.	Y	Y	B1275068428.Region_Id or B67109516.Region_Id or B67109493.Region_Id or B82833961.Region_Id or B67109515.Region_Id or B82833917.Region_Id or B1290793512.Region_Id	
Network_Id	Network associated with the Processor.	Y	Y	B1275068428.Network_Id or B67109516.Network_Id or B67109493.Network_Id or B82833961.Network_Id or B67109515.Network_Id or B82833917.Network_Id or B1290793512.Network_Id	
<b>Configuration Attributes</b>					
Processor_Name	A user friendly name preferably unique for the Processor.			B1275068428.BSC & "/" & CPUNo & "/" & SlotNo & "/" & SubrackNo or B67109516.BSC & "/" & ObjectID or B67109493.BSC & "/" & ObjectID or B82833961.BSC & "/" & ObjectID or B67109515.BSC & "/" & ObjectID or B82833917.BSC & "/" & ObjectID or B1290793512.BSC & "/" & ObjectID	
Processor_Type	Type of Processor.			B1275068428."Populated by customer" or B67109516."Populated by customer" or B67109493."Populated by	

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				customer" or B82833961."Populated by customer" or B67109515."Populated by customer" or B82833917."Populated by customer" or B1290793512."Populated by customer"	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			B1275068428."GSM" or B67109516."GSM" or B67109493."GSM" or B82833961."GSM" or B67109515."GSM" or B82833917."GSM" or B1290793512."GSM"	
Node_Id	This is the identifier for the network element containing the Processor.			B1275068428.BSC or B67109516.BSC or B67109493.BSC or B82833961.BSC or B67109515.BSC or B82833917.BSC or B1290793512.BSC	
Node_Name	A user friendly name preferably unique for the Node.			B1275068428.BSC or B67109516.BSC or B67109493.BSC or B82833961.BSC or B67109515.BSC or B82833917.BSC or B1290793512.BSC	
Node_Type	The type of the network element containing the Processor.			B1275068428."BSC" or B67109516."BSC" or B67109493."BSC" or B82833961."BSC" or B67109515."BSC" or B82833917."BSC" or B1290793512."BSC"	
Processor_Ve rsion	Hardware/Software version of the Processor.			B1275068428."V900R011" or B67109516."V900R011" or B67109493."V900R011" or B82833961."V900R011" or B67109515."V900R011" or B82833917."V900R011" or	

				B1290793512."V900R011"	
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### 5.41 PTUFE details

In the network hierarchy, the immediate parent of the PTUFE object is BSC.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
PTUFE_Id	A unique identifier for the PTUFE.	Y		B1275069431.BSC & "/" & SiteIndex & "/" & PortNo	
<b>Relationship Attributes</b>					
BSC_Id	A unique identifier for the BSC associated with the PTUFE.	Y	Y	B1275069431.BSC	
Network_Id	Network associated with the PTUFE.	Y	Y	B1275069431.Network_Id	
Region_Id	Region associated with the PTUFE.	Y	Y	B1275069431.Region_Id	
<b>Configuration Attributes</b>					
PTUFE_Nam e	A user friendly name preferably unique for the PTUFE.			B1275069431.BSC & "/" & SiteIndex & "/" & PortNo	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	
PTUFE_Versi on	Hardware/Software version of the PTUFE.			"V900R011"	

### 5.42 Region details

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

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Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
Region_Id	Region associated with the network object.	Y		B1275070617.Region_Id or B1275072018.Region_Id or B1275073217.Region_Id	
<b>Relationship Attributes</b>					
Network_Id	Network associated with the Region.	Y	Y	B1275070617.Network_Id or B1275072018.Network_Id or B1275073217.Network_Id	
<b>Configuration Attributes</b>					
Region_Name	A user friendly name preferably unique for the Region.			B1275070617.Region_Id or B1275072018.Region_Id or B1275073217.Region_Id	

### 5.43 SCCP\_DSP details

In the network hierarchy, the immediate parent of the SCCP\_DSP object is BSC.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
SCCP_DSP_I d	A unique identifier for the SCCP Destination Signalling Point.	Y		B1275070417.BSC & "/" & ObjectID	
<b>Relationship Attributes</b>					
BSC_Id	A unique identifier for the BSC associated with the SCCP_DSP.	Y	Y	B1275070417.BSC	
Network_Id	Network associated with the SCCP_DSP.	Y	Y	B1275070417.Network_Id	
Region_Id	Region associated with the SCCP_DSP.	Y	Y	B1275070417.Region_Id	

<b>Configuration Attributes</b>					
SCCP_DSP_Name	A user friendly name preferably unique for the SCCP_DSP.			B1275070417.BSC & "/" & Label	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	
SCCP_DSP_Version	Hardware/Software version of the SCCP_DSP.			"V900R011"	
OPC_Id	DPC of the SCCP_DSP			B1275070417.Opc	
DPC_Id	OPC of the SCCP_DSP			B1275070417.Dpc	

### 5.44 SCCP\_OSP details

In the network hierarchy, the immediate parent of the SCCP\_OSP object is BSC.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
SCCP_OSP_Id	A unique identifier for the SCCP Originating Signalling Point.	Y		B1275068417.BSC & "/" & OSPIndex or B67109452.BSC & "/" & OSPIndex	
<b>Relationship Attributes</b>					
BSC_Id	A unique identifier for the BSC associated with the SCCP_OSP.	Y	Y	B1275068417.BSC or B67109452.BSC	
Network_Id	Network associated with the SCCP_OSP.	Y	Y	B1275068417.Network_Id or B67109452.Network_Id	
Region_Id	Region associated with the SCCP_OSP.	Y	Y	B1275068417.Region_Id or B67109452.Region_Id	
<b>Configuration Attributes</b>					

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SCCP_OSP_Name	A user friendly name preferably unique for the SCCP_OSP.			B1275068417.BSC & "/" & Label or B67109452.BSC & "/" & Label	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			B1275068417."GSM" or B67109452."GSM"	
SCCP_OSP_Version	Hardware/Software version of the SCCP_OSP.			B1275068417."V900R011" or B67109452."V900R011"	

### 5.45 SCTP\_Link details

In the network hierarchy, the immediate parents of the Sctp\_Link object are: Region, MSC and BSC.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
SCTP_Link_I d	Unique identifier for SCTP link	Y		B1275072217.BSC & "/" & CPUNo & "/" & SCTPLinkNo & "/" & SlotNo & "/" & SubrackNo or B67109468.BSC & "/" & ObjectID or B67109469.BSC & "/" & ObjectID	
<b>Relationship Attributes</b>					
Network_Id	Network associated with this element	Y	Y	B1275072217.Network_Id or B67109468.Network_Id or B67109469.Network_Id	
Region_Id	Region associated with the element	Y	Y	B1275072217.Region_Id or B67109468.Region_Id or B67109469.Region_Id	
MSC_Id	MSC associated with the SCTP_Link.	Y	Y	No mapping	
BSC_Id	BSC associated with the SCTP_Link.	Y	Y	B1275072217.BSC or B67109468.BSC or B67109469.BSC	

Configuration Attributes					
SCTP_Link_Name	User friendly name for SCTP link			B1275072217.BSC & "/" & CPUNo & "/" & SCTPLinkNo & "/" & SlotNo & "/" & SubrackNo or B67109468.BSC & "/" & ObjectID or B67109469.BSC & "/" & ObjectID	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			B1275072217."GSM" or B67109468."GSM" or B67109469."GSM"	
Version	Hardware/Software version of SCTP link			B1275072217."V900R011" or B67109468."V900R011" or B67109469."V900R011"	
Node_Id	Node identifier connected to SCTP link			B1275072217.BSC or B67109468.BSC or B67109469.BSC	
Node_Type	Type of node SCTP_Link is connected to at this end.			B1275072217."BSC" or B67109468."BSC" or B67109469."BSC"	
Module_Number	SCTP link module number			No mapping	
Link_Number	SCTP link number			No mapping	

### 5.46 SCTPLNK\_IPLAYER details

In the network hierarchy, the immediate parent of the SCTPLNK\_IPLAYER object is BSC.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
SCTPLNK_IP LAYER_Id	A unique identifier for the SCTP Link IP Layer	Y		B67109485.BSC & "/" & SRN & "/" & SN & "/" &	

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				SCTPLNKN	
<b>Relationship Attributes</b>					
Network_Id	Network associated with the Sctp Link IP Layer	Y	Y	B67109485.Network_Id	
Region_Id	Region associated with the Sctp Link IP Layer	Y	Y	B67109485.Region_Id	
BSC_Id	A unique identifier for the BSC associated with the Sctp Link IP Layer	Y	Y	B67109485.BSC	
<b>Configuration Attributes</b>					
SCTPLNK_IP LAYER_Name	A user friendly name preferably unique for for the Sctp Link IP Layer			B67109485.BSC & "/" & SRN & "/" & SN & "/" & SCTPLNKN	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	
SCTPLNK_IP LAYER_Version	Hardware/Software version of the Sctp Link IP Layer			"V900R011"	

## 5.47 SDH details

In the network hierarchy, the immediate parent of the SDH object is BSC.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
SDH_Id	A unique identifier for the SDH	Y		B67109496.BSC & "/" & ObjectID	
<b>Relationship Attributes</b>					
Network_Id	Network associated with the SDH	Y	Y	B67109496.Network_Id	
Region_Id	Region associated with the SDH	Y	Y	B67109496.Region_Id	
BSC_Id	A unique identifier for	Y	Y	B67109496.BSC	

	the BSC associated with the SDH				
<b>Configuration Attributes</b>					
SDH_Name	A user friendly name preferably unique for for the SDH			B67109496.BSC & "/" & ObjectID	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS)			"GSM"	
SDH_Version	Hardware/Software version of the SDH			"V900R011"	

### 5.48 TC\_Board details

In the network hierarchy, the immediate parent of the TC\_Board object is BSC.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
TC_Board_Id	Primary identifier of the TC Board	Y		B1275069818.BSC & "/" & SubrackNo or B1290793496.BSC & "/" & ATER_RES	
<b>Relationship Attributes</b>					
BSC_Id	Identifier of the BSC	Y	Y	B1275069818.BSC or B1290793496.BSC	
Processor_Id	Module identifier (indirect parent of the Board)	Y	Y	No mapping	
Region_Id	Identifier of the region	Y	Y	B1275069818.Region_Id or B1290793496.Region_Id	
Network_Id	Identifier of the network	Y	Y	B1275069818.Network_Id or	

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				B1290793496.Network_Id	
<b>Configuration Attributes</b>					
TC_Board_Name	Meaningful name of the TC Board			B1275069818.BSC & "/" & SubrackNo or B1290793496.BSC & "/" & ATER_RES	
Frame	Frame identifier (indirect parent of the board)			No mapping	

## 5.49 TC\_RES details

In the network hierarchy, the immediate parent of the TC\_RES object is BSC.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
TC_RES_Id	A unique identifier for the TC_RES	Y		B1290793497.BSC & "/" & TC_RES	
<b>Relationship Attributes</b>					
Network_Id	Network associated with the TC_RES	Y	Y	B1290793497.Network_Id	
Region_Id	Region associated with the TC_RES	Y	Y	B1290793497.Region_Id	
BSC_Id	A unique identifier for the BSC associated with the TC_RES	Y	Y	B1290793497.BSC	
<b>Configuration Attributes</b>					
TC_RES_Name	A user friendly name preferably unique for for the TC_RES			B1290793497.BSC & "/" & TC_RES	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS)			"GSM"	
TC_RES_Version	Hardware/Software version of the TC_RES			"V900R011"	

## 5.50 TRX\_LOCGRP details

In the network hierarchy, the immediate parent of the TRX\_LOCGRP object is Cell.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
TRX_LOCG RP_Id	A unique identifier for the TRX_LOCGRP	Y		B1290793531.BSC & "/" & Cellindex & "/" & CGI & "/" & TRXNo & "/" & LocationGroup or B1290793532.BSC & "/" & Cellindex & "/" & CGI & "/" & TRXNo & "/" & LocationGroup or B1290793533.BSC & "/" & Cellindex & "/" & CGI & "/" & TRXNo & "/" & LocationGroup or B1290793534.BSC & "/" & Cellindex & "/" & CGI & "/" & TRXNo & "/" & LocationGroup or B1290793535.BSC & "/" & Cellindex & "/" & CGI & "/" & TRXNo & "/" & LocationGroup	
<b>Relationship Attributes</b>					
Network_Id	Network associated with the TRX_LOCGRP	Y	Y	B1290793531.Network_Id or B1290793532.Network_Id or B1290793533.Network_Id or B1290793534.Network_Id or B1290793535.Network_Id	
Region_Id	Region associated with the TRX_LOCGRP	Y	Y	B1290793531.Region_Id or B1290793532.Region_Id or B1290793533.Region_Id or B1290793534.Region_Id or B1290793535.Region_Id	
BSC_Id	A unique identifier for the BSC associated with	Y	Y	B1290793531.BSC or B1290793532.BSC or	

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	the TRX_LOCGRP			B1290793533.BSC or B1290793534.BSC or B1290793535.BSC	
Cell_Id	The cell to which the TRX belongs	Y	Y	B1290793531.BSC & "/" & Cellindex & "/" & CGI or B1290793532.BSC & "/" & Cellindex & "/" & CGI or B1290793533.BSC & "/" & Cellindex & "/" & CGI or B1290793534.BSC & "/" & Cellindex & "/" & CGI or B1290793535.BSC & "/" & Cellindex & "/" & CGI	
<b>Configuration Attributes</b>					
TRX_LOCGRP_Name	A user friendly name preferably unique for for the TRX_LOCGRP	Y		B1290793531.BSC & "/" & Label & "/" & LocationGroup or B1290793532.BSC & "/" & Label & "/" & LocationGroup or B1290793533.BSC & "/" & Label & "/" & LocationGroup or B1290793534.BSC & "/" & Label & "/" & LocationGroup or B1290793535.BSC & "/" & Label & "/" & LocationGroup	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS)			B1290793531."GSM" or B1290793532."GSM" or B1290793533."GSM" or B1290793534."GSM" or B1290793535."GSM"	
TRX_LOCGRP_Version	Hardware/Software version of the TRX_LOCGRP			B1290793531."V900R011" or B1290793532."V900R011" or B1290793533."V900R011" or B1290793534."V900R011" or B1290793535."V900R011"	
Location_Group	Location Group for the TRX_LOCGRP			B1290793531.BSC & "/" & LocationGroup or B1290793532.BSC & "/" & LocationGroup or B1290793533.BSC & "/" & LocationGroup or B1290793534.BSC & "/" & LocationGroup or B1290793535.BSC & "/" & LocationGroup	

				B1290793535.BSC & "/" & LocationGroup	
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## 5.51 TRX details

In the network hierarchy, the immediate parent of the TRX object is Cell.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
TRX_Id	A unique identifier for the TRX.	Y		B1275069421.BSC & "/" & ObjectID & "/" & TRXindex	
<b>Relationship Attributes</b>					
Cell_Id	The cell to which the TRX belongs.	Y	Y	B1275069421.BSC & "/" & Cellindex	
BS_Id	A unique identifier for the BS.	Y	Y	No mapping	
BSC_Id	A unique identifier for the BSC.	Y	Y	B1275069421.BSC	
LAC_Id	A unique identifier for the LAC.	Y	Y	B1275069421.lookup("nc_cell", "lac_id", utime(StartDate & StartTime, "%Y-%m-%d %R"), B1275069421.BSC & "/" & ObjectID)	
MSC_Id	A unique identifier for the MSC.	Y	Y	B1275069421.lookup("nc_bsc", "msc_id", utime(StartDate & StartTime, "%Y-%m-%d %R"), B1275069421.BSC)	
Region_Id	Region associated with the TRX.	Y	Y	B1275069421.Region_Id	
Network_Id	Network associated with the TRX.	Y	Y	B1275069421.Network_Id	

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<b>Configuration Attributes</b>					
TRX_Name	A user friendly name preferably unique for the TRX.			B1275069421.BSC & "/" & Label & "/" & TRXindex	
Frequency_Group	Frequency group of the TRX.			"Populated by customer"	
Frequency	Frequency of the TRX.			"Populated by customer"	
Frequency_Hopping_Group	Frequency hopping group of the TRX.			"Populated by customer"	
TRX_Type	TRX type, for example Normal or Extended.			"Populated by customer"	
TRX_Version	Hardware/Software version of the TRX.			"V900R011"	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS).			"GSM"	

## 5.52 TSALLOC details

In the network hierarchy, the immediate parent of the TSALLOC object is BSC.

Attribute Name	Description	Read - Only ?	Time-Track ed?	Mapping	Aggrega tor
<b>Primary Identifier</b>					
TSALLOC_Id	A unique identifier for the TSALLOC	Y		B1275069718.BSC & "/" & ObjectID	
<b>Relationship Attributes</b>					
Network_Id	Network associated with the TSALLOC	Y	Y	B1275069718.Network_Id	
Region_Id	Region associated with the TSALLOC	Y	Y	B1275069718.Region_Id	
BSC_Id	A unique identifier for the BSC associated with the TSALLOC	Y	Y	B1275069718.BSC	
<b>Configuration Attributes</b>					

TSALLOC_Name	A user friendly name preferably unique for for the TSALLOC			B1275069718.BSC & "/" & ObjectID	
Technology	Technology of the network/element (e.g. GSM, GPRS, UMTS)			"GSM"	
TSALLOC_Version	Hardware/Software version of the TSALLOC			"V900R011"	

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## 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
Bearer	Huawei_Bearer_V900_Frames_TxRx_Busy_Hour	Bearer.Huawei.BC_transfer_capability.TOTAL_FR	hubfvbh
BSC	Huawei_BSC_V900_SDCCH_Traffic_Busy_Hour	BSC.Huawei.Access_traffic_volume.Traffic_Volume_of_TCH_SDCCH	hubsvbh
BSC	Huawei_BSC_V900_TCH_Traffic_Busy_Hour	BSC.Huawei.Access_traffic_volume.Traffic_Volume_on_TCH	hubtvbh
BSC	Huawei_BSC_V900_PDCH_Assign_Busy_Hour	BSC.Huawei.Ps_capability.PCUCAP_SAMPLE_PDCH_ALLOC_NUM	hubpvbh
Cell	Huawei_Cell_V900_SDCCH_Traffic_Busy_Hour	Cell.Huawei.Key_performance_indicators.KPI_SD_TRAF_ERL	hucsvbh
Cell	Huawei_Cell_V900_TCH_Traffic_Busy_Hour	Cell.Huawei.Key_performance_indicators.KPI_TCH_TRAF_ERL_TRAF	huctvbh
Cell	Huawei_Cell_V900_GPRS_UL_RLC_Busy_Hour	Cell.Huawei.UL_GPRS_RLC_data_transfer_cap.UP_GPRS	hucgubvh
Cell	Huawei_Cell_V900_GPRS_DL_RLC_Busy_Hour	Cell.Huawei.DL_GPRS_RLC_data_transfer_cap.DOWN_RLC_BLK_TOTAL	hucgdvbh
Cell	Huawei_Cell_V900_EGPRS_UL_RL	Cell.Huawei.UL_EGPRS_RLC_data_transfer_cap.UP_EGPRS_RLC_DATA_BLOCK_T	hucevbh

	C_Busy_Hour	OTAL	
Cell	Huawei_Cell_V900_EGPRS_DL_RLC_Busy_Hour	Cell.Huawei.RLC_data_transfer_cap.RLC_DATA_BLOCK_TOTAL	hucedvbh
Cell	Huawei_Cell_V900_PDCH_Busy_Hour	Cell.Huawei.Radio_channel_capability.RADIO_PDCH_TOTAL_BLOCK	hucpcvbh
CELL_LOCGRP	Huawei_V900_Cell_LOCGRP_TCH_Busy_Hour	CELL_LOCGRP.Huawei.Channel_state_measurement.TOT_TCH_TRAF_IN_LOCGRP	hucltvbh
CELL_LOCGRP	Huawei_V900_Cell_LOCGRP_SDCC_H_Busy_Hour	CELL_LOCGRP.Huawei.Channel_state_measurement.TRAF_VOL_SDCCH	huclsvbh
M3UA_Link	Huawei_M3UA_Link_V900_Tot_Pkts_Busy_Hour	M3UA_Link.Huawei.M3UA_link_utilisation.M3UA_LINK_TOTAL_PACKETS	humlvbh
NSVC	Huawei_NSVC_V900_Total_PDUs_Busy_hour	NSVC.Huawei.NS_transfer_capability.NSVC_TOT_TXRX_NS_PDU	hunpdvbh
PCU	Huawei_PCU_V900_Mean_Busy_Ckts_Busy_Hour	PCU.Huawei.Pb_interface_circuit.PCU_PB_INTF_BUSY_PCIC_AVG	hupvbh
Processor	Huawei_Processor_V900_Utilisation_Busy_Hour	Processor.Huawei.CPU_usage.CPU_USG_AVG	hupuvbh

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# 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:

- [ANI\\_IP performance indicators.](#)
- [Bearer performance indicators.](#)
- [BM\\_Subrack performance indicators.](#)
- [BS performance indicators.](#)
- [BSC performance indicators.](#)
- [BSC\\_DSP performance indicators.](#)
- [BSC\\_Trunk\\_Group performance indicators.](#)
- [CBSCIPPM performance indicators.](#)
- [Cell performance indicators.](#)
- [Cell\\_DPC performance indicators.](#)
- [CELL\\_LOCGRP performance indicators.](#)
- [CELL\\_SGSNNODE performance indicators.](#)
- [Channel\\_Optical\\_Port performance indicators.](#)
- [DPC\\_Group performance indicators.](#)
- [EIT1 performance indicators.](#)
- [Ethernet\\_Port performance indicators.](#)
- [FEGE performance indicators.](#)
- [FIBER performance indicators.](#)
- [HDLC\\_Link performance indicators.](#)
- [IPPATH\\_BSC performance indicators.](#)
- [IPPATH\\_Link performance indicators.](#)
- [LAPD performance indicators.](#)
- [Logic\\_Port\\_BSC performance indicators.](#)
- [M3UA\\_Dest performance indicators.](#)
- [M3UA\\_Link performance indicators.](#)
- [M3UA\\_LinkSet performance indicators.](#)
- [MLPPP\\_BSC performance indicators.](#)
- [MTP2Link performance indicators.](#)
- [MTP3\\_DSP performance indicators.](#)
- [MTP3\\_Link performance indicators.](#)
- [MTP3\\_LinkSet performance indicators.](#)
- [Neighbour performance indicators.](#)
- [NonChannel\\_OpticalPort performance indicators.](#)

- [NSVC performance indicators.](#)
- [NSVL performance indicators.](#)
- [PCU performance indicators.](#)
- [PORT\\_ABIS performance indicators.](#)
- [PPP\\_BSC performance indicators.](#)
- [Processor performance indicators.](#)
- [PTUFE performance indicators.](#)
- [SCCP\\_DSP performance indicators.](#)
- [SCCP\\_OSP performance indicators.](#)
- [SCTP\\_Link performance indicators.](#)
- [SCTPLNK\\_IPLAYER performance indicators.](#)
- [SDH performance indicators.](#)
- [TC\\_Board performance indicators.](#)
- [TC\\_RES performance indicators.](#)
- [TRX performance indicators.](#)
- [TRX\\_LOCGRP performance indicators.](#)
- [TSALLOC performance indicators.](#)

## 7.1 ANI\_IP Performance Indicators

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

- [ANI\\_IP.Huawei.GSM.Adjacent\\_node\\_connection](#)
- [ANI\\_IP.Huawei.GSM.Adjacent\\_node\\_resource\\_op](#)

### 7.1.1 ANI\_IP.Huawei.GSM.Adjacent\_node\_connection

IP transport adjacent node connection measurement helps monitor the connections to IP transport adjacent nodes and analyze system transmission quality to maintain system stability and reliability.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CONN_SETUP_REQ_FR_TPLY	ACCUMULATION	INT8	T6501: Number of Connection Setup Requests for IP Transport from the Transport Layer to the Radio	B67109481.C67194793	Sum	Average, Maximum, Minimum

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			Network Layer on the IP Transport Adjacent Node			
IP_CONN_MOD	ACCUMULATION	INT8	T6503: Number of IP Connection Modifications	B67109481.C67194795	Sum	Average, Maximum, Minimum
SUCIP_CONN_SETUPS	ACCUMULATION	INT8	T6502: Number of Successful IP Connection Setups Initiated by the Transport Layer on IP Transport Adjacent Node	B67109481.C67194794	Sum	Average, Maximum, Minimum
SUCIP_MOD_INIT_TPLY	ACCUMULATION	INT8	T6504: Number of Successful IP Modifications Initiated by the Transport Layer on IP Transport Adjacent Node	B67109481.C67194796	Sum	Average, Maximum, Minimum

### 7.1.2 ANI\_IP.Huawei.GSM.Adjacent\_node\_resource\_op

IP transport adjacent node resource operation measurement provides the counters related to the number of failed resource allocations due to insufficient bandwidth on the IP transport adjacent node, forward and backward bandwidth allocated.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
FAIL_RES_ALLOC_DUE_TO_INS_BW	ACCUMULATION	INT8	T6511: Number of Failed Resource Allocations Due to Insufficient Bandwidth on the IP Transport Adjacent Node	B67109500.C67196162	Sum	

IP_PATH_BWD_BW_ALLOC	INTENSITY	INT8	T6510:IP Path Backward Bandwidth Allocated to IP Transport Adjacent Node	B67109500.C67204476	Average	Sum, Minimum, Maximum
IP_PATH_FWD_BW_ALLOC	INTENSITY	INT8	T6509:IP Path Forward Bandwidth Allocated to IP Transport Adjacent Node	B67109500.C67204475	Average	Sum, Minimum, Maximum

## 7.2 Bearer Performance Indicators

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

- [Bearer.Huawei.GSM.BC\\_transfer\\_capability](#)

### 7.2.1 Bearer.Huawei.GSM.BC\_transfer\_capability

BC transfer capability

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CONFIGURED_LNK_BW_ON_BC	ACCUMULATION	INT8	L9606:Configured Link Bandwidth on BC	B1275072717.C1279369422	Sum	hubfvbh
DISCARD_FR	ACCUMULATION	INT8	L9603:Number of Frames Discarded on BC	B1275072717.C1279369419	Sum	hubfvbh
DL_BW_ACTUALLY_USED_ON_BC	ACCUMULATION	INT8	L9609:Downlink Bandwidth Actually Used on BC	B1275072717.C1279369425	Sum	hubfvbh

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DL_UTIL_RATE_ON_BC	INTENSITY	FLOAT	RL9610:Downlink Utilization Rate on BC	B1275072717.C1279369426	Average	hubfvbh, Sum, Minimum, Maximum
RX_FR	ACCUMULATION	INT8	L9602:Number of Frames Received on BC	B1275072717.C1279369418	Sum	hubfvbh
RX_NS_PDU_PK_BYTE	INTENSITY	INT8	L9605:Maximum Number of Bytes of NS PDUs Received on BC	B1275072717.C1279369421	Constant	Average, hubfvbh, Maximum, Minimum, Sum
TIMES_OF_DL_OVERLOAD_ON_BC	ACCUMULATION	INT8	L9612:Times of Downlink Overload on BC	B1275072717.C1279369428	Sum	hubfvbh
TIMES_OF_UL_OVERLOAD_ON_BC	ACCUMULATION	INT8	L9611:Times of Uplink Overload on BC	B1275072717.C1279369427	Sum	hubfvbh
TOTAL_FR	ACCUMULATION	INT8	Total Number of Frames Sent and Received on BC	B1275072717.C1279369417 + C1279369418	Sum	
TX_FR	ACCUMULATION	INT8	L9601:Number of Frames Sent on BC	B1275072717.C1279369417	Sum	hubfvbh
TX_NS_PDU_PK_BYTE	INTENSITY	INT8	L9604:Maximum Number of Bytes of NS PDUs Sent on BC	B1275072717.C1279369420	Constant	Average, hubfvbh, Maximum, Minimum, Sum
UL_BW_ACTUALLY_USED_ON_BC	ACCUMULATION	INT8	L9607:Uplink Bandwidth Actually Used on BC	B1275072717.C1279369423	Sum	hubfvbh

UL_UTIL_RATE_ON_BC	INTENSITY	FLOAT	RL9608:Uplink Utilization Rate on BC	B1275072717.C1279369424	Average	hubfvbh, Sum, Minimum, Maximum
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### 7.3 BM\_Subrack Performance Indicators

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

- [BM\\_Subrack.Huawei.GSM.A\\_interface\\_circuit](#)
- [BM\\_Subrack.Huawei.GSM.BTS\\_configuration](#)
- [BM\\_Subrack.Huawei.GSM.Cell\\_configuration](#)
- [BM\\_Subrack.Huawei.GSM.TRX\\_configuration](#)

#### 7.3.1 BM\_Subrack.Huawei.GSM.A\_interface\_circuit

A interface circuit usage

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
BS_ATER_BUSY_CIC_AVG	INTENSITY	FLOAT	AL1255:Mean Number of Busy Circuits on the Ater Interface. Obsolete in V900R003	B1275070217.C1276869431	Average	Average, Maximum, Minimum, Sum
BS_ATER_FAULT_CIC_AVG	INTENSITY	FLOAT	AL1251:Mean Number of Faulty Circuits on the Ater Interface. Obsolete in V900R003	B1275070217.C1276869419	Average	Average, Maximum, Minimum, Sum
BS_ATER_ID	INTENSITY	FLOAT	AL1254:Mean	B1275070217.C127	Average	Average,

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LE_CIC_AVG		T	Number of Idle Circuits on the Ater Interface. Obsolete in V900R003	6869428		Maximum, Minimum, Sum
L1251A	ACCUMULATION	INTEGER	L1251A:. Obsolete in V900R003	B1275070217.C127 6869417	Sum	
L1251B	ACCUMULATION	INTEGER	L1251B:. Obsolete in V900R003	B1275070217.C127 6869418	Sum	
L1252A	ACCUMULATION	INTEGER	L1252A:. Obsolete in V900R003	B1275070217.C127 6869423	Sum	
L1252B	ACCUMULATION	INTEGER	L1252B:. Obsolete in V900R003	B1275070217.C127 6869424	Sum	
L1253A	ACCUMULATION	INTEGER	L1253A:. Obsolete in V900R003	B1275070217.C127 6869420	Sum	
L1253B	ACCUMULATION	INTEGER	L1253B:. Obsolete in V900R003	B1275070217.C127 6869421	Sum	
L1254A	ACCUMULATION	INTEGER	L1254A:. Obsolete in V900R003	B1275070217.C127 6869426	Sum	
L1254B	ACCUMULATION	INTEGER	L1254B:. Obsolete in V900R003	B1275070217.C127 6869427	Sum	
L1255A	ACCUMULATION	INTEGER	L1255A:. Obsolete in V900R003	B1275070217.C127 6869429	Sum	
L1255B	ACCUMULATION	INTEGER	L1255B:. Obsolete in V900R003	B1275070217.C127 6869430	Sum	
Mean_Blked_Ckts_on_the_Ater_iface	INTENSITY	FLOAT	AL1253:. Obsolete in V900R003	B1275070217.C127 6869422	Average	Average, Maximum, Minimum

						m, Sum
Mean_Ckts_maint_st_the_After_Iface	INTENSITY	FLOAT	AL1252: Obsolete in V900R003	B1275070217.C1276869425	Average	Average, Maximum, Minimum, Sum

### 7.3.2 BM\_Subrack.Huawei.GSM.BTS\_configuration

BTS configuration KPIs.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
SITE_CFG_AVAILABLE_NUM	INTENSITY	INTEGER	R261: Available BTSs	B1275069418.C1276070418	Average	Average, Maximum, Minimum, Sum
SITE_CFG_NUM	INTENSITY	INTEGER	R260: Activated BTSs	B1275069418.C1276070417	Average	Average, Maximum, Minimum, Sum

### 7.3.3 BM\_Subrack.Huawei.GSM.Cell\_configuration

Cell configuration KPIs.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CELL_CFG_AVAILABLE_NUM	INTENSITY	INT8	R361: Available cells	B1275069420.C1276072418	Average	Average, Maximum, Minimum, Sum
CELL_CFG_NUM	INTENSITY	INT8	R360: Activated	B1275069420.C1276	Average	Average,

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UM	TY		cells	072417		Maximum, Minimum, Sum
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### 7.3.4 BM\_Subrack.Huawei.GSM.TRX\_configuration

TRX configuration KPIs.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
TRX_CFG_AVAILABLE_NUM	INTENSITY	INTEGER	R461:Available TRXs	B1275069422.C1276074418	Average	Average, Maximum, Minimum, Sum
TRX_CFG_AVAILABLE_RATE	INTENSITY	FLOAT	RR461:TRX Availability	B1275069422.C1276074419	Average	Average, Maximum, Minimum, Sum
TRX_CFG_NUM	INTENSITY	INTEGER	R460:Activated TRXs	B1275069422.C1276074417	Average	Average, Maximum, Minimum, Sum

## 7.4 BS Performance Indicators

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

- [BS.Huawei.GSM.BTS\\_energy](#)
- [BS.Huawei.GSM.BTS\\_flexAbis](#)
- [BS.Huawei.GSM.BTS\\_state](#)
- [BS.Huawei.GSM.CRC\\_error](#)
- [BS.Huawei.GSM.CRC\\_serious\\_error](#)
- [BS.Huawei.GSM.IPclock\\_of\\_PTU](#)
- [BS.Huawei.GSM.Utilization\\_of\\_BTS\\_timeslots](#)

### 7.4.1 BS.Huawei.GSM.BTS\_energy

This measurement unit is used to measure the energy counters of a site, including the voltage, current, and power generation capacity of the solar panel, blower, diesel engine, and storage battery.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
AC_INPUT_VOLTAGE	INTENSITY	FLOAT	AR2753:AC Input Voltage	B1290793514.C1 282411816	Average	Sum, Minimum, Maximum
BATT_CHARGING_TIMES	ACCUMULATION	INT8	CR2754:Number of Battery Charging Times	B1290793514.C1 282411817	Sum	
BATT_DISCHARGING_TIMES	ACCUMULATION	INT8	CR2755:Number of Battery Discharging Times	B1290793514.C1 282411818	Sum	
CURRENT_OF_STOR_BATT	INTENSITY	FLOAT	AR2757:Current of the Storage Battery	B1290793514.C1 282411820	Average	Sum, Minimum, Maximum
DC_INPUT_VOLTAGE	INTENSITY	FLOAT	AR2752:DC Input Voltage	B1290793514.C1 282411815	Average	Sum, Minimum, Maximum
DC_OUT_OF_SOLAR_ENERGY	INTENSITY	FLOAT	AR2750:DC Output Current of the Solar Energy	B1290793514.C1 282411813	Average	Sum, Minimum, Maximum
DC_OUT_OF_WIND_ENERGY	INTENSITY	FLOAT	AR2743:DC Output Current	B1290793514.C1 282411810	Average	Sum, Minimum

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			of the Wind Energy			m, Maximum
FUEL_LEVEL_OF_DIESEL_ENGINE	INTENSITY	FLOAT	AR2742:Fuel Level of the Diesel Engine	B1290793514.C1 282411809	Average	Sum, Minimum, Maximum
IN_CURRENT_OF_DC_LOAD	INTENSITY	FLOAT	AR2760:Input Current of the DC Load	B1290793514.C1 282411822	Average	Sum, Minimum, Maximum
INDOOR_TEMP	INTENSITY	FLOAT	AR2770:Indoor Temperature	B1290793514.C1 282411825	Average	Sum, Minimum, Maximum
OUTDOOR_TEMP	INTENSITY	FLOAT	AR2771:Outdoor Temperature	B1290793514.C1 282411826	Average	Sum, Minimum, Maximum
PGC_OF_BLOWER	ACCUMULATION	FLOAT	CR2744:Power Generation Capacity of the Blower	B1290793514.C1 282411811	Sum	
PGC_OF_SOLAR_ENERGY	ACCUMULATION	FLOAT	CR2751:Power Generation Capacity of the Solar Energy	B1290793514.C1 282411814	Sum	
PWR_CONSUMPTION_OF_AC_LOAD	ACCUMULATION	FLOAT	CR2762:Power Consumption of the AC Load	B1290793514.C1 282411824	Sum	
PWR_CONSUMPTION_OF_DC_LOAD	ACCUMULATION	FLOAT	CR2761:Power Consumption of the DC Load	B1290793514.C1 282411823	Sum	
REMAINING_P	INTENSITY	FLOAT	AR2758:Rema	B1290793514.C1	Average	Sum,

WR_OF_STOR_BATT		T	ining Power of the Storage Battery	282411821		Minimum, Maximum
RUN_TIME_OF_AIR_CONDITIONER	ACCUMULATION	FLOAT	CR2772:Running Time of the Air Conditioner	B1290793514.C1 282411827	Sum	
RUN_TIME_OF_DIESEL_ENGINE	ACCUMULATION	FLOAT	CR2740:Running Time of the Diesel Engine	B1290793514.C1 282411807	Sum	
Solarpan_notprov pwr_energymon	ACCUMULATION	INTEGER	CR2780:This counter provides how many times the solar panel does not provide power for the base station, through the function of energy monitoring at the base station.	B1290793514.C1 282429907	Sum	
SURFACE_TEMP_OF_STOR_BATT	INTENSITY	FLOAT	AR2756:Surface Temperature of the Storage Battery	B1290793514.C1 282411819	Average	Sum, Minimum, Maximum
TOT_PGC_OF_DIESEL_ENGINE	ACCUMULATION	FLOAT	CR2741:Total Power Generation Capacity of the Diesel Engine	B1290793514.C1 282411808	Sum	
WIND_SPEED_OF_BLOWER	INTENSITY	FLOAT	AR2745:Wind Speed of the	B1290793514.C1 282411812	Average	Sum, Minimum

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			Blower			m, Maximum
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#### 7.4.2 BS.Huawei.GSM.BTS\_flexAbis

BTS flex Abis resource

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
SITE_16K_ASS_FAIL_RATE	INTENSITY	FLOAT	RR2752:Congestion Ratio of Dynamic Assign Abis Resource(16K)	B1275069428.C1276080428	Average	Average, Maximum, Minimum, Sum
SITE_8K_ASS_FAIL_RATE	INTENSITY	FLOAT	RR2751:Congestion Ratio of Dynamic Assign Abis Resource(8K)	B1275069428.C1276080427	Average	Average, Maximum, Minimum, Sum
SITE_ASS_CS_16K	ACCUMULATION	INT8	R2721:Dynamic Assign Abis Resource(16K_CS)	B1275069428.C1276080418	Sum	
SITE_ASS_CS_8K	ACCUMULATION	INT8	R2720:Dynamic Assign Abis Resource(8K_CS)	B1275069428.C1276080417	Sum	
SITE_ASS_FAIL_CS_16K	ACCUMULATION	INT8	R2731:Failed Dynamic Assign Abis Resource(16K_CS)	B1275069428.C1276080422	Sum	
SITE_ASS_FAIL_CS_8K	ACCUMULATION	INT8	R2730:Failed Dynamic Assign Abis Resource(8K_CS)	B1275069428.C1276080421	Sum	
SITE_ASS_FAIL_PS_MAIN_	ACCUMULATION	INT8	R2732:Failed Dynamic	B1275069428.C1276080423	Sum	

LNK			Assign Abis Resource(PS_MainLink)			
SITE_ASS_FAIL_PS_SUB_LNK	ACCUMULATION	INT8	R2733:Failed Dynamic Assign Abis Resource(PS_SubLink)	B1275069428.C1276080424	Sum	
SITE_ASS_PS_MAIN_LNK	ACCUMULATION	INT8	R2722:Dynamic Assign Abis Resource(PS_MainLink)	B1275069428.C1276080419	Sum	
SITE_ASS_PS_SUB_LNK	ACCUMULATION	INT8	R2723:Dynamic Assign Abis Resource(PS_SubLink)	B1275069428.C1276080420	Sum	
SITE_FAULT_FLEX_TS_NUM	INTENSITY	INT8	R2742:Fault FlexAbis TSs	B1275069428.C1276080426	Average	Average, Maximum, Minimum, Sum
SITE_FLEX_TS_NUM	INTENSITY	INT8	R2741:FlexAbis TSs	B1275069428.C1276080425	Average	Average, Maximum, Minimum, Sum
SITE_LNK_FAIL_CS	ACCUMULATION	INT8	R276:CS Service Connection Failures Due to Abis Link Failure	B1275069428.C1276080429	Sum	

### 7.4.3 BS.Huawei.GSM.BTS\_state

BTS state KPIs.

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KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
DUR_OF_PSU_TURNING_OFF	ACCUMULATION	INT8	CR274:Duration of PSU Turning Off	B1275069417.C1276069423	Sum	
SITE_RST_FAIL	ACCUMULATION	INT8	R2702:Failed BTS Initializations	B1275069417.C1276069418	Sum	
SITE_RST_SUCCESS	ACCUMULATION	INT8	R2701:Successful BTS Initializations	B1275069417.C1276069417	Sum	
SITE_SERV_NORM	ACCUMULATION	INT8	CR273:BTS In-Service Duration	B1275069417.C1276069422	Sum	
SITE_SERV_OUT_OF_SERVICE	ACCUMULATION	INT8	R273:BTS Out-of-Service Duration	B1275069417.C1276069420	Sum	
SITE_SERV_RATE	INTENSITY	FLOAT	TR273:BTS Availability	B1275069417.C1276069421	Average	Average, Maximum, Minimum, Sum
SITE_TRSP_FAIL	ACCUMULATION	INT8	L2130:BTS OML Disruption Duration	B1275069417.C1276069419	Sum	
TOT_BTS_INIT	ACCUMULATION	INT8	Total BTS Initializations	B1275069417.C1276069417 + C1276069418	Sum	

#### 7.4.4 BS.Huawei.GSM.CRC\_error

CRC errors per port

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
SITE_CRC_ERROR_PORT0	ACCUMULATION	INT8	L2100A:Duration of CRC	B1275069423.C1276075417	Sum	

			Error on Ports 0			
SITE_CRC_ERR_PORT10	ACCUMULATION	INT8	L2110A:Duration of CRC Error on Ports 10	B1275069423.C1276075427	Sum	
SITE_CRC_ERR_PORT11	ACCUMULATION	INT8	L2111A:Duration of CRC Error on Ports 11	B1275069423.C1276075428	Sum	
SITE_CRC_ERR_PORT12	ACCUMULATION	INT8	L2112A:Duration of CRC Error on Ports 12	B1275069423.C1276075429	Sum	
SITE_CRC_ERR_PORT13	ACCUMULATION	INT8	L2113A:Duration of CRC Error on Ports 13	B1275069423.C1276075430	Sum	
SITE_CRC_ERR_PORT14	ACCUMULATION	INT8	L2114A:Duration of CRC Error on Ports 14	B1275069423.C1276075431	Sum	
SITE_CRC_ERR_PORT15	ACCUMULATION	INT8	L2115A:Duration of CRC Error on Ports 15	B1275069423.C1276075432	Sum	
SITE_CRC_ERR_PORT16	ACCUMULATION	INT8	L2116A:Duration of CRC Error on Ports 16	B1275069423.C1276075433	Sum	
SITE_CRC_ERR_PORT17	ACCUMULATION	INT8	L2117A:Duration of CRC Error on Ports 17	B1275069423.C1276075434	Sum	
SITE_CRC_ERR_PORT18	ACCUMULATION	INT8	L2118A:Duration of CRC Error on Ports	B1275069423.C1276075435	Sum	

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			18			
SITE_CRC_ERR_PORT19	ACCUMULATION	INT8	L2119A:Duration of CRC Error on Ports 19	B1275069423.C1276075436	Sum	
SITE_CRC_ERR_PORT1	ACCUMULATION	INT8	L2101A:Duration of CRC Error on Ports 1	B1275069423.C1276075418	Sum	
SITE_CRC_ERR_PORT20	ACCUMULATION	INT8	L2120A:Duration of CRC Error on Ports 20	B1275069423.C1276075437	Sum	
SITE_CRC_ERR_PORT21	ACCUMULATION	INT8	L2121A:Duration of CRC Error on Ports 21	B1275069423.C1276075438	Sum	
SITE_CRC_ERR_PORT22	ACCUMULATION	INT8	L2122A:Duration of CRC Error on Ports 22	B1275069423.C1276075439	Sum	
SITE_CRC_ERR_PORT23	ACCUMULATION	INT8	L2123A:Duration of CRC Error on Ports 23	B1275069423.C1276075440	Sum	
SITE_CRC_ERR_PORT2	ACCUMULATION	INT8	L2102A:Duration of CRC Error on Ports 2	B1275069423.C1276075419	Sum	
SITE_CRC_ERR_PORT3	ACCUMULATION	INT8	L2103A:Duration of CRC Error on Ports 3	B1275069423.C1276075420	Sum	
SITE_CRC_ERR_PORT4	ACCUMULATION	INT8	L2104A:Duration of CRC Error on Ports 4	B1275069423.C1276075421	Sum	
SITE_CRC_ERR_PORT5	ACCUMULATION	INT8	L2105A:Duration of CRC Error on Ports 5	B1275069423.C1276075422	Sum	
SITE_CRC_ERR_PORT6	ACCUMULATION	INT8	L2106A:Duration of CRC Error on Ports 6	B1275069423.C1276075423	Sum	

SITE_CRC_ERR_PORT7	ACCUMULATION	INT8	L2107A:Duration of CRC Error on Ports 7	B1275069423.C1276075424	Sum	
SITE_CRC_ERR_PORT8	ACCUMULATION	INT8	L2108A:Duration of CRC Error on Ports 8	B1275069423.C1276075425	Sum	
SITE_CRC_ERR_PORT9	ACCUMULATION	INT8	L2109A:Duration of CRC Error on Ports 9	B1275069423.C1276075426	Sum	
TOT_DUR_CRC_ERR	ACCUMULATION	INT8	Total Duration of CRC Error on Ports	B1275069423.C1276075417 + C1276075418 + C1276075419 + C1276075420 + C1276075421 + C1276075422 + C1276075423 + C1276075424 + C1276075425 + C1276075426 + C1276075427 + C1276075428 + C1276075429 + C1276075430 + C1276075431 + C1276075432 + C1276075433 + C1276075434 + C1276075435 + C1276075436 + C1276075437 + C1276075438 + C1276075439 + C1276075440	Sum	

**7.4.5 BS.Huawei.GSM.CRC\_serious\_error**

CRC serious errors per port.

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<b>KPI</b>	<b>Type</b>	<b>Data Type</b>	<b>Description</b>	<b>Derivation</b>	<b>Default Aggregator</b>	<b>Other Aggregators</b>
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SITE_CRC_SEVER_ERR_PORT10	ACCUMULATION	INT8	L2110B:Duration of Serious CRC Error on Ports 10	B1275069424.C1276076427	Sum	
SITE_CRC_SEVER_ERR_PORT11	ACCUMULATION	INT8	L2111B:Duration of Serious CRC Error on Ports 11	B1275069424.C1276076428	Sum	
SITE_CRC_SEVER_ERR_PORT12	ACCUMULATION	INT8	L2112B:Duration of Serious CRC Error on Ports 12	B1275069424.C1276076429	Sum	
SITE_CRC_SEVER_ERR_PORT13	ACCUMULATION	INT8	L2113B:Duration of Serious CRC Error on Ports 13	B1275069424.C1276076430	Sum	
SITE_CRC_SEVER_ERR_PORT14	ACCUMULATION	INT8	L2114B:Duration of Serious CRC Error on Ports 14	B1275069424.C1276076431	Sum	
SITE_CRC_SEVER_ERR_PORT15	ACCUMULATION	INT8	L2115B:Duration of Serious CRC Error on Ports 15	B1275069424.C1276076432	Sum	
SITE_CRC_SEVER_ERR_PORT16	ACCUMULATION	INT8	L2116B:Duration of Serious CRC Error on Ports 16	B1275069424.C1276076433	Sum	
SITE_CRC_SEVER_ERR_PORT17	ACCUMULATION	INT8	L2117B:Duration of Serious CRC Error on Ports 17	B1275069424.C1276076434	Sum	
SITE_CRC_SEVER_ERR_PORT18	ACCUMULATION	INT8	L2118B:Duration of Serious CRC Error on Ports 18	B1275069424.C1276076435	Sum	

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SITE_CRC_SEVER_ERR_PORT19	ACCUMULATION	INT8	L2119B:Duration of Serious CRC Error on Ports 19	B1275069424.C1276076436	Sum	
SITE_CRC_SEVER_ERR_PORT1	ACCUMULATION	INT8	L2101B:Duration of Serious CRC Error on Ports 1	B1275069424.C1276076418	Sum	
SITE_CRC_SEVER_ERR_PORT20	ACCUMULATION	INT8	L2120B:Duration of Serious CRC Error on Ports 20	B1275069424.C1276076437	Sum	
SITE_CRC_SEVER_ERR_PORT21	ACCUMULATION	INT8	L2121B:Duration of Serious CRC Error on Ports 21	B1275069424.C1276076438	Sum	
SITE_CRC_SEVER_ERR_PORT22	ACCUMULATION	INT8	L2122B:Duration of Serious CRC Error on Ports 22	B1275069424.C1276076439	Sum	
SITE_CRC_SEVER_ERR_PORT23	ACCUMULATION	INT8	L2123B:Duration of Serious CRC Error on Ports 23	B1275069424.C1276076440	Sum	
SITE_CRC_SEVER_ERR_PORT2	ACCUMULATION	INT8	L2102B:Duration of Serious CRC Error on Ports 2	B1275069424.C1276076419	Sum	
SITE_CRC_SEVER_ERR_PORT3	ACCUMULATION	INT8	L2103B:Duration of Serious CRC Error on Ports 3	B1275069424.C1276076420	Sum	
SITE_CRC_SEVER_ERR_PORT4	ACCUMULATION	INT8	L2104B:Duration of Serious CRC Error on Ports 4	B1275069424.C1276076421	Sum	
SITE_CRC_SEVER_ERR_PORT5	ACCUMULATION	INT8	L2105B:Duration of Serious CRC Error on Ports 5	B1275069424.C1276076422	Sum	

SITE_CRC_SEVER_ERR_PORT6	ACCUMULATION	INT8	L2106B:Duration of Serious CRC Error on Ports 6	B1275069424.C1276076423	Sum	
SITE_CRC_SEVER_ERR_PORT7	ACCUMULATION	INT8	L2107B:Duration of Serious CRC Error on Ports 7	B1275069424.C1276076424	Sum	
SITE_CRC_SEVER_ERR_PORT8	ACCUMULATION	INT8	L2108B:Duration of Serious CRC Error on Ports 8	B1275069424.C1276076425	Sum	
SITE_CRC_SEVER_ERR_PORT9	ACCUMULATION	INT8	L2109B:Duration of Serious CRC Error on Ports 9	B1275069424.C1276076426	Sum	
SITE_CRC_SEVERELY_ERR_PORT0	ACCUMULATION	INT8	L2100B:Duration of Serious CRC Error on Ports 0	B1275069424.C1276076417	Sum	
TOT_DUR_SERIOUS_CRC_ERR	ACCUMULATION	INT8	Total Duration of Serious CRC Error on Ports	B1275069424.C1276076417 + C1276076418 + C1276076419 + C1276076420 + C1276076421 + C1276076422 + C1276076423 + C1276076424 + C1276076425 + C1276076426 + C1276076427 + C1276076428 + C1276076429 + C1276076430 + C1276076431 + C1276076432 + C1276076433 +	Sum	

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				C1276076434 + C1276076435 + C1276076436 + C1276076437 + C1276076438 + C1276076439 + C1276076440		
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#### 7.4.6 BS.Huawei.GSM.IPclock\_of\_PTU

IP Clock on the PTU

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
IPCLOCK_ABNORMAL_PACKET	ACCUMULATION	INT8	SE01:Abnormal IP Clock Packets	B1275069430.C1276082418	Sum	
IPCLOCK_NORMAL_PACKET	ACCUMULATION	INT8	SE00:Normal IP Clock Packets	B1275069430.C1276082417	Sum	
TOT_CLK_PKT	ACCUMULATION	INT8	Total Clock Packets	B1275069430.C1276082417 + C1276082418	Sum	

#### 7.4.7 BS.Huawei.GSM.Utilization\_of\_BTS\_timeslots

This measurement unit provides the utilization of BTS timeslots, including the timeslot utilization of the CS service in the BTS and the timeslot utilization of the PS service in the BTS.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
TS_UTIL_RATE_OF_CS_SERVICE_IN_BTS	ACCUMULATION	INT8	T66001:Timeslot Utilization Rate of CS Service In a BTS	B1290793529.C1282412072	Sum	Average, Maximum, Minimum
TS_UTIL_RATE_OF_PS_SERVICE_IN_BTS	ACCUMULATION	INT8	T66002:Timeslot Utilization Rate of PS Service In a	B1290793529.C1282412075	Sum	Average, Maximum, Minimum

		BTS		m
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## 7.5 BSC Performance Indicators

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

- [BSC.Huawei.GSM.A\\_interface\\_paging](#)
- [BSC.Huawei.GSM.Access\\_availability](#)
- [BSC.Huawei.GSM.Access\\_busy\\_tch](#)
- [BSC.Huawei.GSM.Access\\_call\\_drops](#)
- [BSC.Huawei.GSM.Access\\_call\\_setup](#)
- [BSC.Huawei.GSM.Access\\_dynamic\\_config](#)
- [BSC.Huawei.GSM.Access\\_handover](#)
- [BSC.Huawei.GSM.Access\\_overview](#)
- [BSC.Huawei.GSM.Access\\_traffic\\_volume](#)
- [BSC.Huawei.GSM.Assignment\\_failure](#)
- [BSC.Huawei.GSM.BSC\\_PS\\_user\\_capability](#)
- [BSC.Huawei.GSM.BTS\\_management](#)
- [BSC.Huawei.GSM.Call\\_drop\\_loopback\\_fail](#)
- [BSC.Huawei.GSM.Call\\_drop\\_overview](#)
- [BSC.Huawei.GSM.Call\\_drop](#)
- [BSC.Huawei.GSM.Call\\_duration](#)
- [BSC.Huawei.GSM.Call\\_performance\\_overview](#)
- [BSC.Huawei.GSM.Cell\\_broadcast\\_overview](#)
- [BSC.Huawei.GSM.Cell\\_broadcast](#)
- [BSC.Huawei.GSM.Channel\\_assignment](#)
- [BSC.Huawei.GSM.Channel\\_call\\_drop](#)
- [BSC.Huawei.GSM.Channel\\_handovers](#)
- [BSC.Huawei.GSM.Channel\\_miscellaneous](#)
- [BSC.Huawei.GSM.Handover\\_attempt\\_internal](#)
- [BSC.Huawei.GSM.Handover\\_attempt\\_outgoing](#)
- [BSC.Huawei.GSM.Handover\\_attempt\\_overview](#)
- [BSC.Huawei.GSM.Handover\\_fail\\_per\\_cause](#)
- [BSC.Huawei.GSM.Handover\\_failure\\_incom\\_ext](#)
- [BSC.Huawei.GSM.Handover\\_failure\\_internal](#)
- [BSC.Huawei.GSM.Handover\\_failure\\_outgoing\\_ext](#)
- [BSC.Huawei.GSM.Handover\\_failure\\_outgoing\\_int](#)
- [BSC.Huawei.GSM.Handover\\_failure\\_outgoing\\_irat](#)
- [BSC.Huawei.GSM.Handover\\_failure\\_overview](#)
- [BSC.Huawei.GSM.Handover\\_kpi\\_incoming\\_ext](#)
- [BSC.Huawei.GSM.Handover\\_kpi\\_incoming\\_int](#)

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- [BSC.Huawei.GSM.Handover\\_kpi\\_intra\\_cell](#)
- [BSC.Huawei.GSM.Handover\\_kpi\\_outgoing\\_ext](#)
- [BSC.Huawei.GSM.Handover\\_kpi\\_outgoing\\_int](#)
- [BSC.Huawei.GSM.Handover\\_kpi\\_overview](#)
- [BSC.Huawei.GSM.Handover\\_success\\_per\\_cause](#)
- [BSC.Huawei.GSM.Interfrequency\\_band](#)
- [BSC.Huawei.GSM.Number\\_of\\_MR](#)s
- [BSC.Huawei.GSM.Packet\\_access\\_capability](#)
- [BSC.Huawei.GSM.Packet\\_Assignment\\_Capability](#)
- [BSC.Huawei.GSM.Packet\\_transfer\\_capability](#)
- [BSC.Huawei.GSM.PCU\\_messages](#)
- [BSC.Huawei.GSM.PDCH\\_resource\\_capability](#)
- [BSC.Huawei.GSM.Ps\\_capability](#)
- [BSC.Huawei.GSM.Ratio\\_of\\_receive\\_quality](#)
- [BSC.Huawei.GSM.TBF\\_capability](#)
- [BSC.Huawei.GSM.TRX\\_configuration](#)
- [BSC.Huawei.GSM.TRX\\_rxqual\\_and\\_lvl\\_fr\\_DL](#)
- [BSC.Huawei.GSM.TRX\\_rxqual\\_and\\_lvl\\_fr\\_UL](#)
- [BSC.Huawei.GSM.TRX\\_rxqual\\_and\\_lvl\\_hr\\_DL](#)
- [BSC.Huawei.GSM.TRX\\_rxqual\\_and\\_lvl\\_hr\\_UL](#)
- [BSC.Huawei.GSM.VBS\\_Setup](#)
- [BSC.Huawei.GSM.VGCS\\_Setup](#)
- [BSC.Huawei.GSM.VGCS\\_VBS\\_measurement](#)

### 7.5.1 BSC.Huawei.GSM.A\_interface\_paging

Paging reqs on A interface

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
BSC_MSC_PAGING_REQ_CS	ACCUMULATION	INT8	A0300:MSC-Initiated Paging Requests for CS Service	B1275071217.C1277869417	Sum	hubsvbh, hubtvbh
BSC_PAGING_CS	ACCUMULATION	INTEGER	A032:Delivered Paging Messages to BTS for CS Service	B1275071217.C1277869420	Sum	hubsvbh, hubtvbh
BSC_SGSN_PAGING_REQ_CS	ACCUMULATION	INT8	A0301:SGSN-Initiated Paging Requests for CS Service	B1275071217.C1277869418	Sum	hubsvbh, hubtvbh

BSC_SGSN_PAGING_REQ_PS	ACCUMULATION	INT8	A031:SGSN-Initiated Paging Requests for PS Service	B1275071217.C1277869419	Sum	hubsvbh, hubtvbh
MSC_INIT_PAGING_REQ_IMSI	ACCUMULATION	INT8	A0302:Number of MSC-Initiated Paging Requests (IMSI)	B1275071217.C1282412159	Sum	hubsvbh, hubtvbh
MSC_INIT_PAGING_REQ_TMSI	ACCUMULATION	INT8	A0303:Number of MSC-Initiated Paging Requests (TMSI)	B1275071217.C1282412160	Sum	hubsvbh, hubtvbh

### 7.5.2 BSC.Huawei.GSM.Access\_availability

Availability of channels

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
Av_TCHF_1800_1900_Cell	ACCUMULATION	INTEGER	ZR3027B: Number of Available Channels (TCHF) (1800/1900 Cell) Per BSC	B1275072018.C1278670436	Sum	hubsvbh, hubtvbh
Av_TCHF_900_850_Cell	ACCUMULATION	INTEGER	ZR3027A: Number of Available Channels (TCHF) (900/850 Cell) Per BSC	B1275072018.C1278670435	Sum	hubsvbh, hubtvbh
Av_TCHH_1800_1900_Cell	ACCUMULATION	INTEGER	ZR3028B: Number of	B1275072018.C1278670438	Sum	hubsvbh, hubtvbh

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			Available Channels (TCHH) (1800/1900 Cell) Per BSC			
Av_TCHH_900_850_Cell	ACCUMULATION	INTEGER	ZR3028A: Number of Available Channels (TCHH) (900/850 Cell) Per BSC	B1275072018.C1278670437	Sum	hubsvbh, hubtvbh
KPI_TCH_AVAIL_NUM	INTENSITY	FLOAT	ZK3015: Available TCHs per BSC	B1275072018.C1278670540	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
Mean_av_SDCCH_1800_1900_Cell	INTENSITY	FLOAT	ZAR3020B: Mean Number of Available Channels (SDCCH) (1800/1900 Cell) Per BSC	B1275072018.C1278670484	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
Mean_av_SDCCH_900_850_Cell	INTENSITY	FLOAT	ZAR3020A: Mean Number of Available Channels (SDCCH) (900/850 Cell) Per BSC	B1275072018.C1278670483	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
Mean_av_SDCCH	INTENSITY	FLOAT	ZCR3020: Mean Number of Available Channels (SDCCH) Per BSC	B1275072018.C1278670485	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
Mean_av_TCHF_1800_1900	INTENSITY	FLOAT	ZAR3027B: Mean Number of	B1275072018.C1278670534	Average	Average, hubsvbh,

0_Cell			Available Channels (TCHF) (1800/1900 Cell) per BSC			hubtvbh, Maximum, Minimum, Sum
Mean_av_TCHF_900_850_Cell	INTENSITY	FLOAT	ZAR3027A:Mean Number of Available Channels (TCHF) (900/850 Cell) per BSC	B1275072018.C1278670533	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
Mean_av_TCHF	INTENSITY	FLOAT	ZCR3027:Mean Number of Available Channels (TCHF) per BSC	B1275072018.C1278670537	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
Mean_av_TCHH_1800_1900_Cell	INTENSITY	FLOAT	ZAR3028B:Mean Number of Available Channels (TCHH) (1800/1900 Cell) per BSC	B1275072018.C1278670536	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
Mean_av_TCHH_900_850_Cell	INTENSITY	FLOAT	ZAR3028A:Mean Number of Available Channels (TCHH) (900/850 Cell) per BSC	B1275072018.C1278670535	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
Mean_av_TCHH	INTENSITY	FLOAT	ZCR3028:Mean Number of Available Channels (TCHH) per	B1275072018.C1278670538	Average	Average, hubsvbh, hubtvbh, Maximum,

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			BSC			Minimum, Sum
Mean_av_TCHs	INTENSITY	FLOAT	ZCR302B:Mean Available TCHs per BSC	B1275072018.C1278670539	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
TOT_AVAIL_TCHF_CH	ACCUMULATION	INTEGER	Total Number of Available Channels (TCHF) Per BSC	B1275072018.C1278670435 + C1278670436	Sum	hubsvbh, hubtvbh
TOT_AVAIL_TCHH_CH	ACCUMULATION	INTEGER	Total Number of Available Channels (TCHH) Per BSC	B1275072018.C1278670437 + C1278670438	Sum	hubsvbh, hubtvbh

### 7.5.3 BSC.Huawei.GSM.Access\_busy\_tch

Busy traffic channels

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
Busy_TCHs_TCHF_1800_1900_Cell	ACCUMULATION	INTEGER	ZR3551B: Number of Busy TCHs (TCHF) (1800/1900 Cell) Per BSC	B1275072018.C1278670432	Sum	hubsvbh, hubtvbh
Busy_TCHs_TCHF_900_850_Cell	ACCUMULATION	INTEGER	ZR3551A: Number of Busy TCHs (TCHF) (900/850 Cell) Per BSC	B1275072018.C1278670430	Sum	hubsvbh, hubtvbh
Busy_TCHs_TCHH_1800_1900_Cell	ACCUMULATION	INTEGER	ZR3552B: Number of Busy TCHs (TCHH) (1800/1900 Cell) Per BSC	B1275072018.C1278670434	Sum	hubsvbh, hubtvbh

Busy_TCHs_TCHH_900_850_Cell	ACCUMULATION	INTEGER	ZR3552A: Number of Busy TCHs (TCHH) (900/850 Cell) Per BSC	B1275072018.C1278670433	Sum	hubsvbh, hubtvbh
KPI_TCH_ASS_CONG_TRAF	ACCUMULATION	INT8	ZK3011A: Failed TCH Seizures due to Busy TCH per BSC (Traffic Channel)	B1275072018.C1278670509	Sum	hubsvbh, hubtvbh
KPI_TCH_CONGEST_SIG	ACCUMULATION	INT8	ZK3021: Failed TCH Seizures due to Busy TCH per BSC (Signaling Channel)	B1275072018.C1278670492	Sum	hubsvbh, hubtvbh
KPI_TCH_HO_CONG_TRAF	ACCUMULATION	INT8	ZK3011B: Failed TCH Seizures in TCH Handovers due to Busy TCH per BSC (Traffic Channel)	B1275072018.C1278670524	Sum	hubsvbh, hubtvbh
Mean_Busy_TCHs_TCHF_1800_1900_Cell	INTENSITY	FLOAT	ZAR3551B: Mean Number of Busy Traffic Channels (TCHF) (1800/1900 Cell) per BSC	B1275072018.C1278670528	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
Mean_Busy_TCHs_TCHF_900_850_Cell	INTENSITY	FLOAT	ZAR3551A: Mean Number of Busy Traffic Channels (TCHF) (900/850 Cell)	B1275072018.C1278670527	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum

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			per BSC			m, Sum
Mean_Busy_TCHs_TCHH_1800_1900_Cell	INTENSITY	FLOAT	ZAR3552B:Mean Number of Busy Traffic Channels (TCHH) (1800/1900 Cell) per BSC	B1275072018.C1278670530	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
Mean_Busy_TCHs_TCHH_900_850_Cell	INTENSITY	FLOAT	ZAR3552A:Mean Number of Busy Traffic Channels (TCHH) (900/850 Cell) per BSC	B1275072018.C1278670529	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum

#### 7.5.4 BSC.Huawei.GSM.Access\_call\_drops

call drops

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
A_CLR_REQ_TCH_TRAF_HO	ACCUMULATION	INT8	ZCM339B:Call Drops in TCH Handovers per BSC (Traffic Channel)	B1275072018.C1278670526	Sum	hubsvbh, hubtvbh
Abis_terr_Link_fail_sig_CHNL	ACCUMULATION	INTEGER	ZCM363:Call Drops Due to Abis Terrestrial Link Failure (Signaling Channel) Per BSC	B1275072018.C1278670500	Sum	hubsvbh, hubtvbh
Abis_terr_Link_fail_TCH	ACCUMULATION	INTEGER	ZCM333:Call Drops Due to Abis Terrestrial Link Failure (Traffic Channel) per BSC	B1275072018.C1278670518	Sum	hubsvbh, hubtvbh

Equipment_fail_sig_CHNL	ACCUMULATION	INTEGER	ZCM364:Call Drops due to Equipment Failure (Signaling Channel) Per BSC	B1275072018.C1278670501	Sum	hubsvbh, hubtvbh
Equipment_fail_TCH	ACCUMULATION	INTEGER	ZCM334:Call Drops due to Equipment Failure (Traffic Channel) per BSC	B1275072018.C1278670519	Sum	hubsvbh, hubtvbh
Forced_HO_sig_CHNL	ACCUMULATION	INTEGER	ZCM365:Call Drops due to Forced Handover (Signaling Channel) Per BSC	B1275072018.C1278670502	Sum	hubsvbh, hubtvbh
Forced_HO_TCH	ACCUMULATION	INTEGER	ZCM335:Call Drops due to Forced Handover (Traffic Channel) per BSC	B1275072018.C1278670520	Sum	hubsvbh, hubtvbh
No_MRs_MS_for_a_Long_Time_sig_Channel	ACCUMULATION	INTEGER	ZCM362:Call Drops due to No MRs from MS for a Long Time (Signaling Channel) Per BSC	B1275072018.C1278670499	Sum	hubsvbh, hubtvbh
No_MRs_MS_for_a_Long_Time_TCH	ACCUMULATION	INTEGER	ZCM332:Call Drops due to No MRs from	B1275072018.C1278670517	Sum	hubsvbh, hubtvbh

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			MS for a Long Time (Traffic Channel) per BSC			
On_Radio_Interface_HO_st_sig_CHNL	ACCUMULATION	INTEGER	ZCM361:Call Drops on Radio Interface in Handover State (Signaling Channel) Per BSC	B1275072018.C1278670498	Sum	hubsvbh, hubtvbh
On_Radio_Interface_HO_st_TCH	ACCUMULATION	INTEGER	ZCM331:Call Drops on Radio Interface in Handover State (Traffic Channel) per BSC	B1275072018.C1278670516	Sum	hubsvbh, hubtvbh
On_Radio_Interface_SDCCH	ACCUMULATION	INTEGER	ZCM30A:Call Drops on Radio Interface (SDCCH ) per BSC	B1275072018.C1278670479	Sum	hubsvbh, hubtvbh
On_Radio_Interface_SS_sig_CHNL	ACCUMULATION	INTEGER	ZCM360:Call Drops on Radio Interface in Stable State (Signaling Channel) Per BSC	B1275072018.C1278670497	Sum	hubsvbh, hubtvbh
On_Radio_Interface_SS_TCH	ACCUMULATION	INTEGER	ZCM330:Call Drops on Radio Interface in Stable State (Traffic Channel) per BSC	B1275072018.C1278670515	Sum	hubsvbh, hubtvbh
On_sig_CHNL_SS_Connection_fail	ACCUMULATION	INTEGER	ZCM3601:Call Drops on Signaling Channel in Stable State	B1275072018.C1278670495	Sum	hubsvbh, hubtvbh

			(Connection Failure) Per BSC			
On_sig_CHNL_SS_Error_Indication	ACCUMULATION	INTEGER	ZCM3600:Call Drops on Signaling Channel in Stable State (Error Indication) Per BSC	B1275072018.C1278670494	Sum	hubsvbh, hubtvbh
On_sig_CHNL_SS_rls_Indication	ACCUMULATION	INTEGER	ZCM3602:Call Drops on Signaling Channel in Stable State (Release Indication) Per BSC	B1275072018.C1278670496	Sum	hubsvbh, hubtvbh
On_TCH_SS_Connection_fai	ACCUMULATION	INTEGER	ZCM3301:Call Drops on Traffic Channel in Stable State (Connection Failure) per BSC	B1275072018.C1278670513	Sum	hubsvbh, hubtvbh
On_TCH_SS_Error_Indication	ACCUMULATION	INTEGER	ZCM3300:Call Drops on Traffic Channel in Stable State (Error Indication) per BSC	B1275072018.C1278670512	Sum	hubsvbh, hubtvbh
On_TCH_SS_rls_Indication	ACCUMULATION	INTEGER	ZCM3302:Call Drops on Traffic Channel in Stable State (Release	B1275072018.C1278670514	Sum	hubsvbh, hubtvbh

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			Indication) per BSC			
On_TCH	ACCUMULATION	INT8	ZCM33:Call Drops on Traffic Channel per BSC	B1275072018.C1278670521	Sum	hubsvbh, hubtvbh
TCH_TRAF_C H_CALL_DR OP	ACCUMULATION	INT8	ZCM36D:Call Drops on TCH in Stable State per BSC (Traffic Channel)	B1275072018.C1278670522	Sum	hubsvbh, hubtvbh
TOT_STABLE _SIG_CH_CA LL_DROP	ACCUMULATION	INT8	Total Call Drops on Signaling Channel in Stable State Per BSC	B1275072018.C1278670494 + C1278670495 + C1278670496	Sum	hubsvbh, hubtvbh

### 7.5.5 BSC.Huawei.GSM.Access\_call\_setup

call setup indications per type

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
Call_Setup_in d_Call_Re_est ab_SDCCH	ACCUMULATION	INTEGER	ZA3030E:Call Setup Indications (Call Re-establishment) (SDCCH) Per BSC	B1275072018.C1278670447	Sum	hubsvbh, hubtvbh
Call_Setup_in d_Call_Re_est ab_TCHF	ACCUMULATION	INTEGER	ZA3037E:Call Setup Indications (Call Re-establishment) (TCHF) Per BSC	B1275072018.C1278670457	Sum	hubsvbh, hubtvbh
Call_Setup_in d_Call_Re_est	ACCUMULATION	INTEGER	ZA3038E:Call Setup	B1275072018.C1278670467	Sum	hubsvbh, hubtvbh

ab_TCHH			Indications (Call Re-establishment) (TCHH) Per BSC			
Call_Setup_in_d_emerg_Call_SDCCH	ACCUMULATION	INTEGER	ZA3030D:Call Setup Indications (Emergency Call) (SDCCH) Per BSC	B1275072018.C12 78670446	Sum	hubsvbh, hubtvbh
Call_Setup_in_d_emerg_Call_TCHF	ACCUMULATION	INTEGER	ZA3037D:Call Setup Indications (Emergency Call) (TCHF) Per BSC	B1275072018.C12 78670456	Sum	hubsvbh, hubtvbh
Call_Setup_in_d_emerg_Call_TCHH	ACCUMULATION	INTEGER	ZA3038D:Call Setup Indications (Emergency Call) (TCHH) Per BSC	B1275072018.C12 78670466	Sum	hubsvbh, hubtvbh
Call_Setup_in_d_IMSI_Detach_SDCCH	ACCUMULATION	INTEGER	ZA3030G:Call Setup Indications (IMSI Detach) (SDCCH) Per BSC	B1275072018.C12 78670449	Sum	hubsvbh, hubtvbh
Call_Setup_in_d_IMSI_Detach_TCHF	ACCUMULATION	INTEGER	ZA3037G:Call Setup Indications (IMSI Detach) (TCHF) Per BSC	B1275072018.C12 78670459	Sum	hubsvbh, hubtvbh
Call_Setup_in_d_IMSI_Detach_TCHH	ACCUMULATION	INTEGER	ZA3038G:Call Setup Indications	B1275072018.C12 78670469	Sum	hubsvbh, hubtvbh

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			(IMSI Detach) (TCHH) Per BSC			
Call_Setup_in d_LCS_SDCC H	ACCUMULA TION	INTEG ER	ZA3030J:Call Setup Indications (LCS) (SDCCH) Per BSC	B1275072018.C12 78670451	Sum	hubsvbh, hubtvbh
Call_Setup_in d_LCS_TCHF	ACCUMULA TION	INTEG ER	ZA3037J:Call Setup Indications (LCS) (TCHF) Per BSC	B1275072018.C12 78670461	Sum	hubsvbh, hubtvbh
Call_Setup_in d_LCS_TCHH	ACCUMULA TION	INTEG ER	ZA3038J:Call Setup Indications (LCS) (TCHH) Per BSC	B1275072018.C12 78670471	Sum	hubsvbh, hubtvbh
Call_Setup_in d_loc_upd_SD CCH	ACCUMULA TION	INTEG ER	ZA3030F:Call Setup Indications (Location Updating) (SDCCH) Per BSC	B1275072018.C12 78670448	Sum	hubsvbh, hubtvbh
Call_Setup_in d_loc_upd_TC HF	ACCUMULA TION	INTEG ER	ZA3037F:Call Setup Indications (Location Updating) (TCHF) Per BSC	B1275072018.C12 78670458	Sum	hubsvbh, hubtvbh
Call_Setup_in d_loc_upd_TC HH	ACCUMULA TION	INTEG ER	ZA3038F:Call Setup Indications (Location Updating) (TCHH) Per BSC	B1275072018.C12 78670468	Sum	hubsvbh, hubtvbh
Call_Setup_in	ACCUMULA	INTEG	ZA3030A:Call	B1275072018.C12	Sum	hubsvbh,

d_MOC_Non_SMS_SDCCH	TION	ER	Setup Indications (MOC Non SMS) (SDCCH) Per BSC	78670443		hubtvbh
Call_Setup_in_d_MOC_Non_SMS_TCHF	ACCUMULATION	INTEGER	ZA3037A:Call Setup Indications (MOC Non SMS) (TCHF) Per BSC	B1275072018.C12 78670453	Sum	hubsvbh, hubtvbh
Call_Setup_in_d_MOC_Non_SMS_TCHH	ACCUMULATION	INTEGER	ZA3038A:Call Setup Indications (MOC Non SMS) (TCHH) Per BSC	B1275072018.C12 78670463	Sum	hubsvbh, hubtvbh
Call_Setup_in_d_MOC_SMS_SDCCH	ACCUMULATION	INTEGER	ZA3030B:Call Setup Indications (MOC SMS) (SDCCH) Per BSC	B1275072018.C12 78670444	Sum	hubsvbh, hubtvbh
Call_Setup_in_d_MOC_SMS_TCHF	ACCUMULATION	INTEGER	ZA3037B:Call Setup Indications (MOC SMS) (TCHF) Per BSC	B1275072018.C12 78670454	Sum	hubsvbh, hubtvbh
Call_Setup_in_d_MOC_SMS_TCHH	ACCUMULATION	INTEGER	ZA3038B:Call Setup Indications (MOC SMS) (TCHH) Per BSC	B1275072018.C12 78670464	Sum	hubsvbh, hubtvbh
Call_Setup_in_d_MTC_SDCCH	ACCUMULATION	INTEGER	ZA3030C:Call Setup Indications	B1275072018.C12 78670445	Sum	hubsvbh, hubtvbh

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			(MTC) (SDCCH) Per BSC			
Call_Setup_in d_MTC_TCH F	ACCUMULA TION	INTEG ER	ZA3037C:Call Setup Indications (MTC) (TCHF) Per BSC	B1275072018.C12 78670455	Sum	hubsvbh, hubtvbh
Call_Setup_in d_MTC_TCH H	ACCUMULA TION	INTEG ER	ZA3038C:Call Setup Indications (MTC) (TCHH) Per BSC	B1275072018.C12 78670465	Sum	hubsvbh, hubtvbh
Call_Setup_in d_others_SDC CH	ACCUMULA TION	INTEG ER	ZA3030K:Call Setup Indications (others) (SDCCH) Per BSC	B1275072018.C12 78670452	Sum	hubsvbh, hubtvbh
Call_Setup_in d_others_TCH F	ACCUMULA TION	INTEG ER	ZA3037K:Call Setup Indications (others) (TCHF) Per BSC	B1275072018.C12 78670462	Sum	hubsvbh, hubtvbh
Call_Setup_in d_others_TCH H	ACCUMULA TION	INTEG ER	ZA3038K:Call Setup Indications (others) (TCHH) Per BSC	B1275072018.C12 78670472	Sum	hubsvbh, hubtvbh
Call_Setup_in d_SDCCH_CS _srvc	ACCUMULA TION	INTEG ER	ZCA3030J:Call Setup ind per BSC (SDCCH) (CS Service)	B1275072018.C12 78670549	Sum	hubsvbh, hubtvbh
Call_Setup_in d_SS_SDCCH	ACCUMULA TION	INTEG ER	ZA3030I:Call Setup Indications (SS) (SDCCH) Per BSC	B1275072018.C12 78670450	Sum	hubsvbh, hubtvbh
Call_Setup_in d_SS_TCHF	ACCUMULA TION	INTEG ER	ZA3037I:Call Setup	B1275072018.C12 78670460	Sum	hubsvbh, hubtvbh

			Indications (SS) (TCHF) Per BSC			
Call_Setup_in d_SS_TCHH	ACCUMULA TION	INTEG ER	ZA3038I:Call Setup Indications (SS) (TCHH) Per BSC	B1275072018.C12 78670470	Sum	hubsvbh, hubtvbh
Call_Setup_in d_TCH_CS_sr vce	ACCUMULA TION	INTEG ER	ZCA3039J:Call Setup ind per BSC (TCH)(CS Service)	B1275072018.C12 78670550	Sum	hubsvbh, hubtvbh
IMM_ASS_S UCC	ACCUMULA TION	INT8	ZCA303J:Call Setup Indications per BSC (CS Service)	B1275072018.C12 78670551	Sum	hubsvbh, hubtvbh

### 7.5.6 BSC.Huawei.GSM.Access\_dynamic\_config

Mean and number of dynamically configured channels

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
Dyn_confured_ TCHF_1800_19 00_Cell	ACCUMULA TION	INTEG ER	ZR3017B:Num ber of Dynamically Configured Channels (TCHF) (1800/1900 Cell) Per BSC	B1275072018.C12 78670440	Sum	hubsvbh, hubtvbh
Dyn_confured_ TCHF_900_850 _Cell	ACCUMULA TION	INTEG ER	ZR3017A:Num ber of Dynamically Configured Channels	B1275072018.C12 78670439	Sum	hubsvbh, hubtvbh

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			(TCHF) (900/850 Cell) Per BSC			
Dyn_confured_TCHH_1800_1900_Cell	ACCUMULATION	INTEGER	ZR3018B: Number of Dynamically Configured Channels (TCHH) (1800/1900 Cell) Per BSC	B1275072018.C12 78670442	Sum	hubsvbh, hubtvbh
Dyn_confured_TCHH_900_850_Cell	ACCUMULATION	INTEGER	ZR3018A: Number of Dynamically Configured Channels (TCHH) (900/850 Cell) Per BSC	B1275072018.C12 78670441	Sum	hubsvbh, hubtvbh
Mean_dyn_confured_SDCCH_1800_1900_Cell	INTENSITY	FLOAT	ZAR3010B: Mean Number of Dynamically Configured Channels (SDCCH) (1800/1900 Cell) Per BSC	B1275072018.C12 78670488	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
Mean_dyn_confured_SDCCH_900_850_Cell	INTENSITY	FLOAT	ZAR3010A: Mean Number of Dynamically Configured Channels (SDCCH) (900/850 Cell) Per BSC	B1275072018.C12 78670487	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
Mean_dyn_confured_TCHF_1800_1900_Cell	INTENSITY	FLOAT	ZAR3017B: Mean Number of Dynamically Configured Channels (TCHF) (1800/1900 Cell) Per BSC	B1275072018.C12 78670542	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum

Mean_dyn_conf ured_TCHF_90 0_850_Cell	INTENSITY	FLOA T	ZAR3017A:Me an Number of Dynamically Configured Channels (TCHF) (900/850 Cell) Per BSC	B1275072018.C12 78670541	Average	Average, hubsvbh, hubtvbh, Maximum, Minimu m, Sum
Mean_dyn_conf ured_TCHH_18 00_1900_Cell	INTENSITY	FLOA T	ZAR3018B:Me an Number of Dynamically Configured Channels (TCHH) (1800/1900 Cell) Per BSC	B1275072018.C12 78670544	Average	Average, hubsvbh, hubtvbh, Maximum, Minimu m, Sum
Mean_dyn_conf ured_TCHH_90 0_850_Cell	INTENSITY	FLOA T	ZAR3018A:Me an Number of Dynamically Configured Channels (TCHH) (900/850 Cell) Per BSC	B1275072018.C12 78670543	Average	Average, hubsvbh, hubtvbh, Maximum, Minimu m, Sum
Mean_Dynamic ally_confured_ SDCCH	INTENSITY	FLOA T	ZCR3010:Mea n Number of Dynamically Configured Channels (SDCCH) Per BSC	B1275072018.C12 78670489	Average	Average, hubsvbh, hubtvbh, Maximum, Minimu m, Sum
Mean_Dynamic ally_confured_ TCHF	INTENSITY	FLOA T	ZCR3017:Mea n Number of Dynamically Configured Channels (TCHF) Per BSC	B1275072018.C12 78670545	Average	Average, hubsvbh, hubtvbh, Maximum, Minimu m, Sum

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Mean_Dynamically_confured_TCHH	INTENSITY	FLOAT	ZCR3018:Mean Number of Dynamically Configured Channels (TCHH) Per BSC	B1275072018.C1278670546	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
Mean_Dynamically_confured_TCH	INTENSITY	FLOAT	ZCR301B:Mean Number of Dynamically Configured Channels (TCH) Per BSC	B1275072018.C1278670547	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum

### 7.5.7 BSC.Huawei.GSM.Access\_handover

Access channel handover KPIs.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
BSC_IntraCell_HO_det_Times_TCHF	ACCUMULATION	INTEGER	ZH3047:BSC Intra-cell Handover Detection Times (TCHF) Per BSC	B1275072018.C1278670422	Sum	hubsvbh, hubtvbh
BSC_IntraCell_HO_det_Times_TCHH	ACCUMULATION	INTEGER	ZH3048:BSC Intra-cell Handover Detection Times (TCHH) Per BSC	B1275072018.C1278670423	Sum	hubsvbh, hubtvbh
Clr_reqs_Sent_AIf_HO_st_TCHF_TCH_HO	ACCUMULATION	INTEGER	ZM319B:Clear Requests Sent on the A Interface in Handover State (TCHF) (Traffic Channel) (Handover)Per	B1275072018.C1278670428	Sum	hubsvbh, hubtvbh

			BSC			
Clr_reqs_Sent_AIf_HO_st_TCHH_TCH_HO	ACCUMULATION	INTEGER	ZM329B:Clear Requests Sent on the A Interface in Handover State (TCHH) (Traffic Channel) (Handover)Per BSC	B1275072018.C1278670429	Sum	hubsvbh, hubtvbh
Fail_Inc_ext_IrC_HOs_No_CHNL_av_TCH	ACCUMULATION	INTEGER	ZH3429A:Failed Incoming External Inter-Cell Handovers (No Channel Available) (TCH) Per BSC	B1275072018.C1278670421	Sum	hubsvbh, hubtvbh
Fail_Inc_int_IrC_HOs_No_CHNL_av_TCH	ACCUMULATION	INTEGER	ZH3229A:Failed Incoming Internal Inter-Cell Handovers (No Channel Available) (TCH) Per BSC	B1275072018.C1278670420	Sum	hubsvbh, hubtvbh
Inc_ext_IrC_HO_det_msgs_rxdBSC_TCHF	ACCUMULATION	INTEGER	ZH3447:Incoming External Inter-Cell Handover Detection Messages Received by BSC (TCHF) Per BSC	B1275072018.C1278670426	Sum	hubsvbh, hubtvbh
Inc_ext_IrC_HO_det_msgs_rxdBSC_TCHH	ACCUMULATION	INTEGER	ZH3448:Incoming External Inter-Cell Handover	B1275072018.C1278670427	Sum	hubsvbh, hubtvbh

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			Detection Messages Received by BSC (TCHH) Per BSC			
Inc_ext_IrCell_HO_reqs_TCH_1800_900	ACCUMULATION	INTEGER	ZH3409Z:Incoming External Inter-Cell Handover Requests (TCH) (1800/1900-900/850) Per BSC	B1275072018.C1278670418	Sum	hubsvbh, hubtvbh
Inc_ext_IrCell_HO_reqs_TCH_900_1800	ACCUMULATION	INTEGER	ZH3409Y:Incoming External Inter-Cell Handover Requests (TCH) (900/850-1800/1900) Per BSC	B1275072018.C1278670417	Sum	hubsvbh, hubtvbh
Inc_int_IrC_HO_det_msgs_rxdBSC_TCHF	ACCUMULATION	INTEGER	ZH3247:Incoming Internal Inter-Cell Handover Detection Messages Received by BSC (TCHF) Per BSC	B1275072018.C1278670424	Sum	hubsvbh, hubtvbh
Inc_int_IrC_HO_det_msgs_rxdBSC_TCHH	ACCUMULATION	INTEGER	ZH3248:Incoming Internal Inter-Cell Handover Detection Messages Received by BSC (TCHH) Per BSC	B1275072018.C1278670425	Sum	hubsvbh, hubtvbh
IrCell_HOs_No_CHNL_av_TCH	ACCUMULATION	INTEGER	ZH3029A:Failed Internal Inter-Cell Handovers (No Channel	B1275072018.C1278670419	Sum	hubsvbh, hubtvbh

			Available) (TCH) Per BSC		
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### 7.5.8 BSC.Huawei.GSM.Access\_overview

Overview of access KPis.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
Ass_reqs	ACCUMULATION	INT8	ZCA310:Assignment Requests per BSC	B1275072018.C1278670507	Sum	hubsvbh, hubtvbh
Atts_Scan_CHANNEL_sts	ACCUMULATION	INTEGER	ZR359:Number of Attempts to Scan Channel States Per BSC	B1275072018.C1278670431	Sum	hubsvbh, hubtvbh
Atts_Scan_SDCCH_sts	ACCUMULATION	INTEGER	ZR3590:Number of Attempts to Scan SDCCH States per BSC	B1275072018.C1278670562	Sum	hubsvbh, hubtvbh
Busy_sig_SDCCH	ACCUMULATION	INTEGER	ZR3550C:Number of Busy Signaling Channels (SDCCH) per BSC	B1275072018.C1278670563	Sum	hubsvbh, hubtvbh
Busy_sig_TCHF	ACCUMULATION	INTEGER	ZR3553C:Number of Busy Signaling Channels (TCHF) per BSC	B1275072018.C1278670564	Sum	hubsvbh, hubtvbh
Busy_sig_TCHH	ACCUMULATION	INTEGER	ZR3554C:Number of Busy Signaling	B1275072018.C1278670565	Sum	hubsvbh, hubtvbh

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			Channels (TCHH) per BSC			
Call_Drops_on_sig_CHNL	ACCUMULATION	INTEGER	ZCM36:Call Drops on Signaling Channel Per BSC	B1275072018.C1278670503	Sum	hubsvbh, hubtvbh
Imm_ass_cmds_CS_srvce	ACCUMULATION	INTEGER	ZCA301J:Immediate Assignment Commands (CS Service) per BSC	B1275072018.C1278670474	Sum	hubsvbh, hubtvbh
KPI_IMM_ASS_CMD	ACCUMULATION	INT8	ZK3101:Immediate Assignment Commands per BSC	B1275072018.C1278670475	Sum	hubsvbh, hubtvbh
KPI_IMM_ASS_REQ	ACCUMULATION	INT8	ZCA300J:Immediate Assignment Requests per BSC	B1275072018.C1278670473	Sum	hubsvbh, hubtvbh
KPI_SD_AVAL_NUM	INTENSITY	FLOAT	ZK3005:Available SDCCHs per BSC	B1275072018.C1278670486	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
KPI_SD_CFG_NUM	INTENSITY	FLOAT	ZK3006:Configured SDCCHs per BSC	B1275072018.C1278670490	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
KPI_SD_CONG	ACCUMULATION	INT8	ZK3001:Failed SDCCH Seizures due to Busy SDCCH	B1275072018.C1278670477	Sum	hubsvbh, hubtvbh

			per BSC			
KPI_SD_REQ	ACCUMULATION	INT8	ZK3000:SDCCH Seizure Requests per BSC	B1275072018.C12 78670476	Sum	hubsvbh, hubtvbh
KPI_SD_SUC C	ACCUMULATION	INT8	ZK3003:Successful SDCCH Seizures per BSC	B1275072018.C12 78670478	Sum	hubsvbh, hubtvbh
KPI_SD_TRAF _ERL	INTENSITY	FLOA T	ZK3004:Traffic Volume on SDCCH per BSC	B1275072018.C12 78670482	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
KPI_TCH_ASS _REQ_TRAF	ACCUMULATION	INT8	ZK3010A:TCH Seizure Requests per BSC (Traffic Channel)	B1275072018.C12 78670508	Sum	hubsvbh, hubtvbh
KPI_TCH_ASS _SUCC_TRAF	ACCUMULATION	INT8	ZK3013A:Successful TCH Seizures per BSC (Traffic Channel)	B1275072018.C12 78670511	Sum	hubsvbh, hubtvbh
KPI_TCH_CF G_NUM	INTENSITY	FLOA T	ZK3016:Config ured TCHs per BSC	B1275072018.C12 78670548	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
KPI_TCH_DR OPS_SIG	ACCUMULATION	INT8	ZK3022:Call Drops on TCH per BSC (Signaling)	B1275072018.C12 78670504	Sum	hubsvbh, hubtvbh

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			Channel)			
KPI_TCH_HO_REQ_TRAF	ACCUMULATION	INT8	ZK3010B:TCH Seizure Requests in TCH Handovers per BSC (Traffic Channel)	B1275072018.C1278670523	Sum	hubsvbh, hubtvbh
KPI_TCH_HO_SUCC_TRAF	ACCUMULATION	INT8	ZK3013B:Successful TCH Seizures in TCH handovers per BSC (Traffic Channel)	B1275072018.C1278670525	Sum	hubsvbh, hubtvbh
KPI_TCH_REQ_SIG	ACCUMULATION	INT8	ZK3020:TCH Seizure Requests per BSC (Signaling Channel)	B1275072018.C1278670491	Sum	hubsvbh, hubtvbh
KPI_TCH_SUCC_SIG	ACCUMULATION	INT8	ZK3023:Successful TCH Seizures per BSC (Signaling Channel)	B1275072018.C1278670493	Sum	hubsvbh, hubtvbh
KPI_TCH_TRAF_ERL_SIG	INTENSITY	FLOAT	ZK3024:Traffic Volume on TCH per BSC (Signaling Channel)	B1275072018.C1278670506	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
KPI_TCH_TRAF_ERL_TRAF	INTENSITY	FLOAT	ZK3014:Traffic Volume on TCH per BSC (Traffic Channel)	B1275072018.C1278670532	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
RATE_ASS_SUCC	INTENSITY	FLOAT	ZTR102A:TCH Assignment	B1275072018.C1278670553	Average	Average, hubsvbh,

			Success Ratio per BSC			hubtvbh, Maximum, Minimum, Sum
RATE_IMM_ASS_SUCC	INTENSITY	FLOAT	ZTR110A:Call Setup Success Ratio per BSC (Immediate Assignment)	B1275072018.C1278670561	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
RATE_RANDOM_ACC_SUCC	INTENSITY	FLOAT	ZTR101A:Random Access Success Ratio per BSC	B1275072018.C1278670552	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
RATE_SD_AVAILABLE	INTENSITY	FLOAT	ZTR105A:SDCCH Availability per BSC	B1275072018.C1278670556	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
RATE_SD_CALL_DROP	INTENSITY	FLOAT	ZTR104A:Call Drop Ratio on SDCCH per BSC	B1275072018.C1278670555	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
RATE_SD_CONGESTION	INTENSITY	FLOAT	ZTR103A:Congestion Ratio on SDCCH per BSC	B1275072018.C1278670554	Average	Average, hubsvbh, hubtvbh, Maximum,

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						Minimum, Sum
RATE_TCH_A VAIL	INTENSITY	FLOAT	ZTR109A:TCH Availability per BSC	B1275072018.C12 78670560	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
RATE_TCH_C ALL_DROP	INTENSITY	FLOAT	ZTR107A:Call Drop Ratio on TCH per BSC	B1275072018.C12 78670558	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
RATE_TCH_C ONG	INTENSITY	FLOAT	ZTR106A:Con gestion Ratio on TCH per BSC	B1275072018.C12 78670557	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
RATE_TCH_T RAF_CALL_D ROP	INTENSITY	FLOAT	ZTR108A:Traff ic Call Drop Ratio on TCH per BSC	B1275072018.C12 78670559	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
SD_CALL_DR OPS	ACCUMULA TION	INT8	ZCM30:Call Drops on SDCCH per BSC	B1275072018.C12 78670480	Sum	hubsvbh, hubtvbh
Successful_ass _SDCCH	ACCUMULA TION	INT8	ZCA313:Succe ssful Assignments (SDCCH) per BSC	B1275072018.C12 78670510	Sum	hubsvbh, hubtvbh

**7.5.9 BSC.Huawei.GSM.Access\_traffic\_volume**

traffic volume

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
Traffic_Volume_of_TCH_SDCCH	INTENSITY	FLOAT	ZTS3010:Traffic Volume of Traffic Channel(SDCCH)per BSC	B1275072018.C1278670481	Average	Average, hubtvbh, Maximum, Minimum, Sum
Traffic_Volume_on_Sigchnl_TCH	INTENSITY	FLOAT	ZTS3019:Traffic Volume on Signaling Channel per BSC (TCH)	B1275072018.C1278670505	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
Traffic_Volume_on_TCH	INTENSITY	FLOAT	ZCR355A:Traffic Volume on Traffic Channel per BSC	B1275072018.C1278670531	Average	Average, hubsvbh, Maximum, Minimum, Sum

**7.5.10 BSC.Huawei.GSM.Assignment\_failure**

assignment failures per cause

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ASS_FAIL_IN_VALID_MSG_CONTENTS	ACCUMULATION	INT8	ZA3129J:Failed Assignments per BSC (Invalid Message)	B1275072023.C1278675418	Sum	hubsvbh, hubtvbh

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ASS_FAIL_INVALID_STATE	ACCUMULATION	INT8	ZA3129I:Failed Assignments per BSC (Invalid State)	B1275072023.C12 78675417	Sum	hubsvbh, hubtvbh
CHAN_ACTIV_NACKBTS_as_s_proc_TCHF	ACCUMULATION	INTEGER	ZR3317B:CHAN ACTIV NACK Messages Sent by BTS in Assignment Procedure (TCHF) per BSC	B1275072023.C12 78675437	Sum	hubsvbh, hubtvbh
CHAN_ACTIV_NACKBTS_as_s_proc_TCHH	ACCUMULATION	INTEGER	ZR3318B:CHAN ACTIV NACK Messages Sent by BTS in Assignment Procedure (TCHH) per BSC	B1275072023.C12 78675438	Sum	hubsvbh, hubtvbh
CHAN_ACTIV_NACKBTS_MM_proc_TCHF	ACCUMULATION	INTEGER	ZR3327B:CHAN ACTIV NACK Messages Sent by BTS in Mode Modify Procedure (TCHF) per BSC	B1275072023.C12 78675439	Sum	hubsvbh, hubtvbh
CHAN_ACTIV_NACKBTS_MM_proc_TCHH	ACCUMULATION	INTEGER	ZR3328B:CHAN ACTIV NACK Messages Sent by BTS in Mode Modify Procedure (TCHH) per BSC	B1275072023.C12 78675440	Sum	hubsvbh, hubtvbh
CHNL_Activation_TOs_ass_proc_TCHF	ACCUMULATION	INTEGER	ZR3317C:Channel Activation Timeouts in	B1275072023.C12 78675441	Sum	hubsvbh, hubtvbh

			Assignment Procedure (TCHF) per BSC			
CHNL_Activation_TOs_ass_proc_TCHH	ACCUMULATION	INTEGER	ZR3318C:Channel Activation Timeouts in Assignment Procedure (TCHH) per BSC	B1275072023.C1278675442	Sum	hubsvbh, hubtvbh
CHNL_Activation_TOs_MM_proc_TCHF	ACCUMULATION	INTEGER	ZR3327C:Channel Activation Timeouts in Mode Modify Procedure (TCHF) per BSC	B1275072023.C1278675443	Sum	hubsvbh, hubtvbh
CHNL_Activation_TOs_MM_proc_TCHH	ACCUMULATION	INTEGER	ZR3328C:Channel Activation Timeouts in Mode Modify Procedure (TCHH) per BSC	B1275072023.C1278675444	Sum	hubsvbh, hubtvbh
FAIL_ASG_NO_ATER_RES_AVL	ACCUMULATION	INT8	ZA3129T:Failed Assignments (No Ater Resource Available) per BSC	B1275072023.C1278675454	Sum	hubsvbh, hubtvbh
Fail_ass_1st_ass_ass_Timed_Out	ACCUMULATION	INTEGER	ZA3129C:Failed Assignments (First Assignment, Assignment Timed Out) per BSC	B1275072023.C1278675430	Sum	hubsvbh, hubtvbh

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Fail_ass_1st_ass_dir_Retry_Timed_Out	ACCUMULATION	INTEGER	ZA3129O:Failed Assignments (First Assignment, Directed Retry Timed Out) per BSC	B1275072023.C12 78675431	Sum	hubsvbh, hubtvbh
Fail_ass_1st_ass_terr_res_req_fail	ACCUMULATION	INTEGER	ZA3129B:Failed Assignments (First Assignment, Terrestrial Resource Request Failed) per BSC	B1275072023.C12 78675425	Sum	hubsvbh, hubtvbh
Fail_ass_A_Interface_fail	ACCUMULATION	INTEGER	ZA3129G:Failed Assignments (A Interface Failure) per BSC	B1275072023.C12 78675423	Sum	hubsvbh, hubtvbh
Fail_ass_CIC_Allocated	ACCUMULATION	INTEGER	ZA3129F:Failed Assignments (CIC Allocated) per BSC	B1275072023.C12 78675421	Sum	hubsvbh, hubtvbh
Fail_ass_CIC_Unavailable	ACCUMULATION	INTEGER	ZA3129E:Failed Assignments (CIC Unavailable) per BSC	B1275072023.C12 78675419	Sum	hubsvbh, hubtvbh
Fail_ass_clear_commands_SentMSC	ACCUMULATION	INTEGER	ZA3129H:Failed Assignments (Clear Commands Sent By MSC) per BSC	B1275072023.C12 78675435	Sum	hubsvbh, hubtvbh
Fail_ass_reconnect_Old_Channel_Timer_expired	ACCUMULATION	INTEGER	ZA3129P:Failed Assignments (Reconnection to Old Channels, Timer Expired in Assignment)	B1275072023.C12 78675432	Sum	hubsvbh, hubtvbh

			per BSC			
Fail_ass_recon OLD_reconOL D_CHNL_ass	ACCUMULA TION	INTEG ER	ZA3129D:Faile d Assignments (Reconnection to Old Channels, Reconnection to Old Channel in Assignment) per BSC	B1275072023.C12 78675428	Sum	hubsvbh, hubtvbh
Fail_ass_recon OLD_reconOL D_CHNL_dirRt y	ACCUMULA TION	INTEG ER	ZA3129R:Faile d Assignments (Reconnection to Old Channels, Reconnection to Old Channel in Directed Retry) per BSC	B1275072023.C12 78675429	Sum	hubsvbh, hubtvbh
Fail_ass_recon OLD_terr_res_r eq_fail	ACCUMULA TION	INTEG ER	ZA3129N:Faile d Assignments (Reconnection to Old Channels, Terrestrial Resource Request Failed) per BSC	B1275072023.C12 78675426	Sum	hubsvbh, hubtvbh
Fail_ass_recon OLD_Timer_ex p_dir_Retry	ACCUMULA TION	INTEG ER	ZA3129Q:Faile d Assignments (Reconnection to Old Channels, Timer Expired in Directed Retry) per BSC	B1275072023.C12 78675433	Sum	hubsvbh, hubtvbh
Fail_MM_atts_ A_iface_fail	ACCUMULA TION	INTEG ER	ZA3159G:Faile d Mode Modify	B1275072023.C12 78675424	Sum	hubsvbh, hubtvbh

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			Attempts (A Interface Failure) per BSC			
Fail_MM_atts_CIC_Allocated	ACCUMULATION	INTEGER	ZA3159F:Failed Mode Modify Attempts (CIC Allocated) per BSC	B1275072023.C1278675422	Sum	hubsvbh, hubtvbh
Fail_MM_atts_CIC_Unav	ACCUMULATION	INTEGER	ZA3159E:Failed Mode Modify Attempts (CIC Unavailable) per BSC	B1275072023.C1278675420	Sum	hubsvbh, hubtvbh
Fail_MM_atts_clr_cmds_SentMSC	ACCUMULATION	INTEGER	ZA3159H:Failed Mode Modify Attempts (Clear Commands Sent By MSC) per BSC	B1275072023.C1278675436	Sum	hubsvbh, hubtvbh
Fail_MM_atts_terr_res_req_fail	ACCUMULATION	INTEGER	ZA3159B:Failed Mode Modify Attempts (Terrestrial Resource Request Failed) per BSC	B1275072023.C1278675427	Sum	hubsvbh, hubtvbh
Fail_MM_atts_Timer_exp	ACCUMULATION	INTEGER	ZA3159C:Failed Mode Modify Attempts (Timer Expired) per BSC	B1275072023.C1278675434	Sum	hubsvbh, hubtvbh
FAIL_MODE_MOD_ATT_ATER_UNAVL	ACCUMULATION	INT8	ZA3159J:Failed Mode Modify Attempts (No Ater Resource Available) per BSC	B1275072023.C1278675455	Sum	hubsvbh, hubtvbh
TOT_ASS_FAIL_FIRST_TRS	ACCUMULATION	INT8	ZTA312L:Failed Assignments	B1275072023.C1278675448	Sum	hubsvbh, hubtvbh

L_FAIL			per BSC (Equipment Failure)			
TOT_ASS_FAIL_RECON_SU C_TRSL_FAIL	ACCUMULA TION	INT8	ZTA312M:Fail ed Assignments per BSC (Reconnection to Old Channels)	B1275072023.C12 78675449	Sum	hubsvbh, hubtvbh
TOTALCELL_ ASS_FAIL_CI C_ALLOC	ACCUMULA TION	INT8	ZTA312K:Faile d Assignments per BSC (Terrestrial Resource Already Allocated)	B1275072023.C12 78675447	Sum	hubsvbh, hubtvbh
TOTALCELL_ ASS_FAIL_MS C_CLR_CMD	ACCUMULA TION	INT8	ZTK3011A:Fail ed Assignments per BSC (Other Causes)	B1275072023.C12 78675451	Sum	hubsvbh, hubtvbh
TOTALCELL_ ASS_FAIL_NO _CIC	ACCUMULA TION	INT8	ZTA312A:Faile d Assignments per BSC (Requested Terrestrial Resource Unavailable)	B1275072023.C12 78675446	Sum	hubsvbh, hubtvbh
TOTALCELL_ CHAN_ACT_N ACK_TCH	ACCUMULA TION	INT8	ZTA3129E:Fail ed Assignments per BSC (Requested Terrestrial Resource Unavailable)	B1275072023.C12 78675452	Sum	hubsvbh, hubtvbh
TOTALCELL_ CHAN_ACT_T IMEOUT_TCH	ACCUMULA TION	INT8	ZTA3159E:Cha nnel Activation Timeouts in Assignment	B1275072023.C12 78675453	Sum	hubsvbh, hubtvbh

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			Procedure per BSC			
TOTCELL_AS S_FAIL_Frst_A SS_EXP	ACCUMULA TION	INT8	ZTCA312:Faile d Assignments per BSC (Timer Expired)	B1275072023.C12 78675450	Sum	hubsvbh, hubtvbh
TOTCELL_AS S_FAIL_INVA LID_STATE	ACCUMULA TION	INT8	ZTA3129J:Fail ed Assignments per BSC (Channel Unavailable)	B1275072023.C12 78675445	Sum	hubsvbh, hubtvbh

### 7.5.11 BSC.Huawei.GSM.BSC\_PS\_user\_capability

Measurement unit to analyze the MS capability of the PS in the BSC.

KPI	Type	Data Type	Description	Derivation	Default Aggregat or	Other Aggrega tors
AVG_ONLIN E_EGPRS_US ERS	INTENSITY	FLOA T	S9407:Average On-Line EGPRS Users per BSC .	B1275073218.C127 9870423 or B1290793481.C127 9870423	Average	hubsvbh, hubtvbh, Sum, Minimu m, Maximu m
AVG_ONLIN E_GPRS_USE RS	INTENSITY	FLOA T	S9406:Average On-Line GPRS Users per BSC .	B1275073218.C127 9870422 or B1290793481.C127 9870422	Average	hubsvbh, hubtvbh, Sum, Minimu m, Maximu m
MAX_ONLIN E_EGPRS_US ERS	INTENSITY	INT8	S9405:Maximu m On-Line EGPRS Users per BSC .	B1275073218.C127 9870421 or B1290793481.C127 9870421	Average	hubsvbh, hubtvbh, Sum, Minimu m, Maximu m
MAX_ONLIN E_GPRS_USE	INTENSITY	INT8	S9404:Maximu m On-Line	B1275073218.C127 9870420 or	Average	hubsvbh, hubtvbh,

RS			GPRS Users per BSC .	B1290793481.C127 9870420		Sum, Minimum, Maximum
ONLINE_EGPRS_USERS	ACCUMULATION	INT8	S9403:On-Line EGPRS Users per BSC .	B1275073218.C127 9870419 or B1290793481.C127 9870419	Sum	hubsvbh, hubtvbh
ONLINE_GPRS_USERS	ACCUMULATION	INT8	S9402:On-Line GPRS Users per BSC .	B1275073218.C127 9870418 or B1290793481.C127 9870418	Sum	hubsvbh, hubtvbh
SMPL_TIMES_ONLINE_MS_NUM	ACCUMULATION	INTEGER	S9401:Sampling Times of On-Line MS Number per BSC.	B1275073218.C127 9870417	Sum	hubsvbh, hubtvbh

### 7.5.12 BSC.Huawei.GSM.BTS\_management

Measurement to measure the numbers of active and available BTSs, cells, and TRXs.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ACTIVE_BTSS	ACCUMULATION	INT8	R260:Number of active BTSs per BSC	B1290793504.C12 82411394	Sum	hubsvbh, hubtvbh
ACTIVE_CELLS	ACCUMULATION	INT8	R360:Number of active cells per BSC	B1290793504.C12 82411392	Sum	hubsvbh, hubtvbh
ACTIVE_TRXS	ACCUMULATION	INT8	R460:Number of active TRXs per BSC	B1290793504.C12 82411396	Sum	hubsvbh, hubtvbh
AVL_BTSS	ACCUMULATION	INT8	R261:Number of available	B1290793504.C12 82411395	Sum	hubsvbh, hubtvbh

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			BTSs per BSC			
AVL_CELLS	ACCUMULATION	INT8	R361: Number of available cells per BSC	B1290793504.C12 82411393	Sum	hubsvbh, hubtvbh
AVL_TRXS	ACCUMULATION	INT8	R461: Number of available TRXs per BSC	B1290793504.C12 82411397	Sum	hubsvbh, hubtvbh
BTS_AVAILABILITY	INTENSITY	FLOAT	RR261: BTS availability per BSC	B1290793504.C12 82423789	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
TRX_AVAILABILITY	INTENSITY	FLOAT	RR461: TRX availability per BSC	B1290793504.C12 82423788	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum

### 7.5.13 BSC.Huawei.GSM.Call\_drop\_loopback\_fail

Call drop due to loopback fail

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
BTSLOOP_FAIL_APPLY_TRSL_FAIL	ACCUMULATION	INTEGER	ZTM335: Number of Call Drops Due to BSC Loopback Start Failure per BSC (Others). Obsolete in V900R008	B1275072025.C12 78677452	Sum	hubsvbh, hubtvbh
CALL_DROPS_BSCLOOP_FAIL_OTHER	ACCUMULATION	INTEGER	ZTM334: Number of Call Drops Due to BSC Loopback	B1275072025.C12 78677451	Sum	hubsvbh, hubtvbh

			Start Failure per BSC (Territorial Resource Request Failure). Obsolete in V900R008			
CALL_DROPS_BTSLOOP_FAIL_OTHER	ACCUMULATION	INTEGER	ZTM337: Number of Call Drops Due to BTS Loopback Start Failure per BSC (Failures on the BTS Side). Obsolete in V900R008	B1275072025.C1278677454	Sum	hubsvbh, hubtvbh
CELL_BSC_LOOP_RESTORE_FAIL	ACCUMULATION	INTEGER	ZTM345: Number of Call Drops Due to Failures to Return to Normal Call from BTS Loopback per BSC (Others). Obsolete in V900R008	B1275072025.C1278677462	Sum	hubsvbh, hubtvbh
CELL_BTS_LOOP_RESTORE_FAIL	ACCUMULATION	INTEGER	ZTM346: Number of Call Drops Due to Failures to Return to Normal Call from Loopback per BSC. Obsolete in V900R008	B1275072025.C1278677463	Sum	hubsvbh, hubtvbh

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CELL_BTSLO OP_FAIL_BTS _FAIL	ACCUMULA TION	INTEG ER	ZTM336:Numb er of Call Drops Due to BTS Loopback Start Failure per BSC (Territorial Resource Request Failure). Obsolete in V900R008	B1275072025.C12 78677453	Sum	hubsvbh, hubtvbh
CELL_CALL_ DROPS_LOOP _FAIL_EXP	ACCUMULA TION	INTEG ER	ZTM338:Numb er of Call Drops Due to BTS Loopback Start Failure per BSC (Others). Obsolete in V900R008	B1275072025.C12 78677455	Sum	hubsvbh, hubtvbh
CELL_CALL_ DROPS_LOOP _HO_FAIL	ACCUMULA TION	INTEG ER	ZTM340:Numb er of Call Drops Due to Loopback Start Failure per BSC. Obsolete in V900R008	B1275072025.C12 78677457	Sum	hubsvbh, hubtvbh
CELL_LOOP_ START_FAIL_ DROPS	ACCUMULA TION	INTEG ER	ZTM339:Numb er of Call Drops Due to Loopback Start Failure per BSC (Timer Expired). Obsolete in V900R008	B1275072025.C12 78677456	Sum	hubsvbh, hubtvbh
LOOP_RESTO RE_OTHER_F AIL_BSC_LO OP	ACCUMULA TION	INTEG ER	ZTM343:Numb er of Call Drops Due to Failures to Return to Normal Call	B1275072025.C12 78677460	Sum	hubsvbh, hubtvbh

			from BTS Loopback per BSC (Territorial Resource Request Failure). Obsolete in V900R008			
LOOP_RESTORE_OTHER_FAIL_BTS_LOOP	ACCUMULATION	INTEGER	ZTM344: Number of Call Drops Due to Failures to Return to Normal Call from BSC Loopback per BSC (Others). Obsolete in V900R008	B1275072025.C1278677461	Sum	hubsvbh, hubtvbh
LOOP_RSTR_APPLY_TRSL_FAIL_BSC_LOOP	ACCUMULATION	INTEGER	ZTM341: Number of Call Drops Due to Handover Failure During the Loopback per BSC. Obsolete in V900R008	B1275072025.C1278677458	Sum	hubsvbh, hubtvbh
LOOP_RSTR_APPLY_TRSL_FAIL_BTS_LOOP	ACCUMULATION	INTEGER	ZTM342: Number of Call Drops Due to Failures to Return to Normal Call from BSC Loopback per BSC (Territorial Resource	B1275072025.C1278677459	Sum	hubsvbh, hubtvbh

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			Request Failure). Obsolete in V900R008		
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### 7.5.14 BSC.Huawei.GSM.Call\_drop\_overview

Overview of Call Drops.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
RAT_TCHCallDrop_AbisTLnkFail	INTENSITY	FLOAT	Ratio of Call Drops on TCH per BSC (Abis Terrestrial Link Failure)	{Huawei.Call_drop.TOT_DROP_ABIS_LNKFAIL_TCH}/ {Huawei.Call_drop.TOT_TCH_CALL_DROP}	Average	Sum, Minimum, Maximum
RAT_TCHCallDrop_ConnFail	INTENSITY	FLOAT	Ratio of Call Drops on TCH per BSC (Connection Failure)	{Huawei.Call_drop.TOT_CELL_DROPS_CONN_FAIL_TCH}/ {Huawei.Call_drop.TOT_TCH_CALL_DROP}	Average	Sum, Minimum, Maximum
RAT_TCHCallDrop_ErrInd	INTENSITY	FLOAT	Ratio of Call Drops on TCH per BSC (Error Indication)	{Huawei.Call_drop.TOT_CELL_DROPS_ERR_IND_TCH}/ {Huawei.Call_drop.TOT_TCH_CALL_DROP}	Average	Sum, Minimum, Maximum
RAT_TCHCallDrop_ForceHO	INTENSITY	FLOAT	Ratio of Call Drops on TCH per BSC (Forced Handover)	{Huawei.Call_drop.TOT_CELL_DROPS_FORCE_HO_TCH}/ {Huawei.Call_drop.TOT_TCH_CALL_DROP}	Average	Sum, Minimum, Maximum
RAT_TCHCallDrop_Other	INTENSITY	FLOAT	Ratio of Call Drops on TCH per BSC (Other Causes)	{Huawei.Call_drop.TOTAL_CELL_CALL_DROPS_OTHER}/	Average	Sum, Minimum, Maximum

				{Huawei.Call_drop.TOT_TCH_CALL_DROP}		m
RAT_TCHCallDrop_RelInd	INTENSITY	FLOAT	Ratio of Call Drops on TCH per BSC (Release Indication)	{Huawei.Call_drop.TOT_CELL_DROP_S_REL_IND_TCH}/ {Huawei.Call_drop.TOT_TCH_CALL_DROP}	Average	Sum, Minimum, Maximum

### 7.5.15 BSC.Huawei.GSM.Call\_drop

Call drop per cause, and successful connections

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
After_ans_TCHF_TCH	ACCUMULATION	INT8	ZM317:Call Drops after ans per BSC (TCHF) (Traffic Channel)	B1275072025.C1278677419	Sum	hubsvbh, hubtvbh
After_ans_TCHH_TCH	ACCUMULATION	INT8	ZM327:Call Drops after ans per BSC (TCHH) (Traffic Channel)	B1275072025.C1278677420	Sum	hubsvbh, hubtvbh
CONFAIL_rxd_TCHF_SS_radres_not_av_TCH	ACCUMULATION	INTEGER	ZM3101D:Call Drops Due to the CONN FAIL Received from TCHF in Stable State (Radio Resource Not Available) (Traffic	B1275072025.C1278677430	Sum	hubsvbh, hubtvbh

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			Channel) per BSC			
CONFAIL_rxd_TCHH_SS_radres_not_av_TCH	ACCUMULATION	INTEGER	ZM3201D:Call Drops Due to the CONN FAIL Received from TCHH in Stable State (Radio Resource Not Available) (Traffic Channel) per BSC	B1275072025.C1278677435	Sum	hubsvbh, hubtvbh
CONN_FAIL_rxd_TCHF_SS_HO_acc_fail_TCH	ACCUMULATION	INTEGER	ZM3101B:Call Drops Due to the CONN FAIL Received from TCHF in Stable State (HO Access Failure) (Traffic Channel) per BSC	B1275072025.C1278677428	Sum	hubsvbh, hubtvbh
CONN_FAIL_rxd_TCHF_SS_OM_ivent_TCH	ACCUMULATION	INTEGER	ZM3101C:Call Drops Due to the CONN FAIL Received from TCHF in Stable State (OM Intervention) (Traffic Channel) per BSC	B1275072025.C1278677429	Sum	hubsvbh, hubtvbh
CONN_FAIL_rxd_TCHF_SS_Others_TCH	ACCUMULATION	INTEGER	ZM3101E:Call Drops Due to the CONN FAIL Received from TCHF in Stable State (Others)	B1275072025.C1278677431	Sum	hubsvbh, hubtvbh

			(Traffic Channel) per BSC			
CONN_FAIL_rxd_TCHF_SS_RL_fail_TCH	ACCUMULATION	INTEGER	ZM3101A:Call Drops Due to the CONN FAIL Received from TCHF in Stable State (Radio Link Failure) (Traffic Channel) per BSC	B1275072025.C1278677427	Sum	hubsvbh, hubtvbh
CONN_FAIL_rxd_TCHH_SS_HO_acc_fail_TCH	ACCUMULATION	INTEGER	ZM3201B:Call Drops Due to the CONN FAIL Received from TCHH in Stable State (HO Access Failure) (Traffic Channel) per BSC	B1275072025.C1278677433	Sum	hubsvbh, hubtvbh
CONN_FAIL_rxd_TCHH_SS_OM_ivent_TCH	ACCUMULATION	INTEGER	ZM3201C:Call Drops Due to the CONN FAIL Received from TCHH in Stable State (OM Intervention) (Traffic Channel) per BSC	B1275072025.C1278677434	Sum	hubsvbh, hubtvbh
CONN_FAIL_rxd_TCHH_SS_Others_TCH	ACCUMULATION	INTEGER	ZM3201E:Call Drops Due to the CONN	B1275072025.C1278677436	Sum	hubsvbh, hubtvbh

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			FAIL Received from TCHH in Stable State (Others) (Traffic Channel) per BSC			
CONN_FAIL_rxd_TCHH_SS_RL_fail_TCH	ACCUMULATION	INTEGRER	ZM3201A:Call Drops Due to the CONN FAIL Received from TCHH in Stable State (Radio Link Failure) (Traffic Channel) per BSC	B1275072025.C1278677432	Sum	hubsvbh, hubtvbh
CONN_FAIL_SIG_TCH	ACCUMULATION	INT8	ZTM347:Call Drops on TCH per BSC (Connection Failure)(Signal Channel)	B1275072025.C1278677464	Sum	hubsvbh, hubtvbh
CONN_FAIL_TRAF_TCH	ACCUMULATION	INT8	ZTM348:Call Drops on TCH per BSC (Connection Failure) (Service Channel)	B1275072025.C1278677465	Sum	hubsvbh, hubtvbh
ERR_IND_rxd_TCHF_SS_seq_error_TCH	ACCUMULATION	INTEGRER	ZM3100C:Call Drops Due to ERR IND Received from TCHF in Stable State (Sequence error) (Traffic Channel) per BSC	B1275072025.C1278677423	Sum	hubsvbh, hubtvbh
ERR_IND_rxd_TCHF_SS_T200_exp_TCH	ACCUMULATION	INTEGRER	ZM3100A:Call Drops Due to ERR IND	B1275072025.C1278677421	Sum	hubsvbh, hubtvbh

			Received from TCHF in Stable State (T200 Expired) (Traffic Channel) per BSC			
ERR_IND_rxd_TCHF_SS_unsol_DM_resp_TCH	ACCUMULATION	INTEGER	ZM3100B:Call Drops Due to ERR IND Received from TCHF in Stable State (Unsolicited DM response) (Traffic Channel) per BSC	B1275072025.C1278677422	Sum	hubsvbh, hubtvbh
ERR_IND_rxd_TCHH_SS_seq_error_TCH	ACCUMULATION	INTEGER	ZM3200C:Call Drops Due to ERR IND Received from TCHF in Stable State (Sequence error) (Traffic Channel) per BSC	B1275072025.C1278677426	Sum	hubsvbh, hubtvbh
ERR_IND_rxd_TCHH_SS_T200_exp_TCH	ACCUMULATION	INTEGER	ZM3200A:Call Drops Due to ERR IND Received from TCHF in Stable State (T200 Expired) (Traffic Channel) per BSC	B1275072025.C1278677424	Sum	hubsvbh, hubtvbh
ERR_IND_rxd_TCHH_SS_un	ACCUMULATION	INTEGER	ZM3200B:Call Drops Due to	B1275072025.C1278677425	Sum	hubsvbh, hubtvbh

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sol_DM_resp_TCH			ERR IND Received from TCHF in Stable State (Unsolicited DM response) (Traffic Channel) per BSC			
REL_IND_rxd_TCH_SS_TCHF	ACCUMULATION	INTEGER	ZM3102:Call Drops Due to the REL IND Received from the Traffic Channel in Stable State(TCHF) per BSC	B1275072025.C127 8677437	Sum	hubsvbh, hubtvbh
REL_IND_rxd_TCH_SS_TCHH	ACCUMULATION	INTEGER	ZM3202:Call Drops Due to the REL IND Received from the Traffic Channel in Stable State(TCHH) per BSC	B1275072025.C127 8677438	Sum	hubsvbh, hubtvbh
Res_Check_TCHF_Sigchnl	ACCUMULATION	INTEGER	ZM346:Call Drops due to Resource Check (TCHF) (Signaling Channel)	B1275072025.C127 8677439	Sum	hubsvbh, hubtvbh
Res_Check_TCHF_TCH	ACCUMULATION	INTEGER	ZM316:Call Drops due to Resource Check (TCHF) (Traffic Channel)	B1275072025.C127 8677441	Sum	hubsvbh, hubtvbh
Res_Check_TCHH_Sigchnl	ACCUMULATION	INTEGER	ZM356:Call Drops due to Resource Check (TCHH)	B1275072025.C127 8677440	Sum	hubsvbh, hubtvbh

			(Signaling Channel)			
Res_Check_TCHH_TCH	ACCUMULATION	INTEGER	ZM326:Call Drops due to Resource Check (TCHH) (Traffic Channel)	B1275072025.C1278677442	Sum	hubsvbh, hubtvbh
Succ_Conn_TCHF_TCH	ACCUMULATION	INT8	ZM318:Successful Connections per BSC (TCHF) (Traffic Channel)	B1275072025.C1278677417	Sum	hubsvbh, hubtvbh
Succ_Conn_TCHH_TCH	ACCUMULATION	INT8	ZM328:Successful Connections per BSC (TCHH) (Traffic Channel)	B1275072025.C1278677418	Sum	hubsvbh, hubtvbh
TOT_CELL_DROPS_AFTER_CONNF	ACCUMULATION	INT8	ZTM327:Call Drops after Answers per BSC	B1275072025.C1278677444	Sum	hubsvbh, hubtvbh
TOT_CELL_DROPS_CONNF_TCH	ACCUMULATION	INT8	ZTM329:Call Drops on TCH per BSC (Connection Failure)	B1275072025.C1278677446	Sum	hubsvbh, hubtvbh
TOT_CELL_DROPS_ERR_IND_TCH	ACCUMULATION	INT8	ZTM328:Call Drops on TCH per BSC (Error Indication)	B1275072025.C1278677445	Sum	hubsvbh, hubtvbh
TOT_CELL_DROPS_FORCE	ACCUMULATION	INT8	ZTM332:Call Drops on TCH	B1275072025.C1278677449	Sum	hubsvbh, hubtvbh

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_HO_TCH			per BSC (Forced Handover)			
TOT_CELL_D ROPS_REL_I ND_TCH	ACCUMULA TION	INT8	ZTM330:Call Drops on TCH per BSC (Release Indication)	B1275072025.C127 8677447	Sum	hubsvbh, hubtvbh
TOT_DROP_A BIS_LNKFAIL _TCH	ACCUMULA TION	INT8	ZTM331:Call Drops on TCH per BSC (Abis Terrestrial Link Failure)	B1275072025.C127 8677448	Sum	hubsvbh, hubtvbh
TOT_TCH_CA LL_DROP	ACCUMULA TION	INT8	Total Call Drops on TCH per BSC	B1275072025.C127 8677445 + C1278677446 + C1278677447 + C1278677448 + C1278677449 + C1278677450	Sum	hubsvbh, hubtvbh
TOTAL_CELL _CALL_DROP S_OTHER	ACCUMULA TION	INT8	ZTM333:Call Drops on TCH per BSC (Other Causes)	B1275072025.C127 8677450	Sum	hubsvbh, hubtvbh
TOTAL_CELL _CONN_TRA F	ACCUMULA TION	INT8	ZTM326:Succe ssful Connections per BSC	B1275072025.C127 8677443	Sum	hubsvbh, hubtvbh

### 7.5.16 BSC.Huawei.GSM.Call\_duration

Call duration attempts, total duration and mean duration

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
Attempts_dur_o f_Call_acc	ACCUMULA TION	INT8	A032B:Attempt s Number of Duration of Call Access	B1275071417.C127 8069419	Sum	hubsvbh, hubtvbh
Attempts_dur_o	ACCUMULA	INT8	A033B:Attempt	B1275071417.C127	Sum	hubsvbh,

f_Call_estab	TION		s Number of Duration of Call Establishment	8069420		hubtvbh
BSC_CALL_ACCESS_DURATION_AVG	INTENSITY	FLOAT	AA032:Mean Duration of Call Access	B1275071417.C1278069421	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
BSC_CALL_ESTB_DURATION_AVG	INTENSITY	FLOAT	AA033:Mean Duration of Call Establishment	B1275071417.C1278069422	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
Total_dur_of_Call_acc	ACCUMULATION	INT8	A032A:Total Number of Duration of Call Access	B1275071417.C1278069417	Sum	hubsvbh, hubtvbh
Total_dur_of_Call_estab	ACCUMULATION	INT8	A033A:Total Number of Duration of Call Establishment	B1275071417.C1278069418	Sum	hubsvbh, hubtvbh

### 7.5.17 BSC.Huawei.GSM.Call\_performance\_overview

Call related overview

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
BSCRPTL_UP_PT_TO_PT_SMS_SD	ACCUMULATION	INT8	ZTA3340A: Number of Uplink Point-to-Point Short Messages per BSC	B1275072021.C1278673438	Sum	hubsvbh, hubtvbh

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			(SDCCH)			
CALL_ORIG_TERM_MSS_A5_1	ACCUMULATION	INT8	ZTCA3350H: Number of Calls Originated or Terminated by MSs Supporting A5/1 per BSC	B1275072021.C1278673454	Sum	hubsvbh, hubtvbh
CALL_ORIG_TERM_MSS_A5_2	ACCUMULATION	INT8	ZTCA3350I: Number of Calls Originated or Terminated by MSs Supporting A5/2 per BSC	B1275072021.C1278673455	Sum	hubsvbh, hubtvbh
CALL_ORIG_TERM_MSS_A5_3	ACCUMULATION	INT8	ZTCA3350J: Number of Calls Originated or Terminated by MSs Supporting A5/3 per BSC	B1275072021.C1278673456	Sum	hubsvbh, hubtvbh
CALL_ORIG_TERM_MSS_A5_4	ACCUMULATION	INT8	ZTCA3350K: Number of Calls Originated or Terminated by MSs Supporting A5/4 per BSC	B1275072021.C1278673457	Sum	hubsvbh, hubtvbh
CALL_ORIG_TERM_MSS_A5_5	ACCUMULATION	INT8	ZTCA3350L: Number of Calls Originated or Terminated by MSs Supporting A5/5 per BSC	B1275072021.C1278673458	Sum	hubsvbh, hubtvbh
CALL_ORIG_TERM_MSS_A5_6	ACCUMULATION	INT8	ZTCA3350M: Number of Calls Originated or Terminated by MSs Supporting	B1275072021.C1278673459	Sum	hubsvbh, hubtvbh

			A5/6 per BSC			
CALL_ORIG_TERM_MSS_A5_7	ACCUMULATION	INT8	ZTCA3351A: Number of Calls Originated or Terminated by MSs Supporting A5/7 per BSC	B1275072021.C1278673460	Sum	hubsvbh, hubtvbh
CALL_ORIG_TERM_MSS_CDMA2000	ACCUMULATION	INT8	ZTCA3351M: Number of Calls Originated or Terminated by MSs Supporting CDMA2000 per BSC	B1275072021.C1278673472	Sum	hubsvbh, hubtvbh
CALL_ORIG_TERM_MSS_DCS1800	ACCUMULATION	INT8	ZTCA3351H: Number of Calls Originated or Terminated by MSs Supporting DCS1800 Band per BSC	B1275072021.C1278673467	Sum	hubsvbh, hubtvbh
CALL_ORIG_TERM_MSS_DTM	ACCUMULATION	INT8	ZTCA3352D: Number of Calls Originated or Terminated by MSs Supporting DTM per BSC	B1275072021.C1278673477	Sum	hubsvbh, hubtvbh
CALL_ORIG_TERM_MSS_ECS	ACCUMULATION	INT8	ZTCA3350G: Number of Calls Originated or Terminated by MSs Supporting Early	B1275072021.C1278673453	Sum	hubsvbh, hubtvbh

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			Classmark Sending per BSC			
CALL_ORIG_ TERM_MSS_E GSM	ACCUMULA TION	INT8	ZTCA3351F:N umber of Calls Originated or Terminated by MSs Supporting E- GSM Band per BSC	B1275072021.C12 78673465	Sum	hubsvbh, hubtvbh
CALL_ORIG_ TERM_MSS_E NHC_DTM	ACCUMULA TION	INT8	ZTCA3352E:N umber of Calls Originated or Terminated by MSs Supporting Enhanced DTM CS Establishment and Release per BSC	B1275072021.C12 78673478	Sum	hubsvbh, hubtvbh
CALL_ORIG_ TERM_MSS_G ERAN_PKG1	ACCUMULA TION	INT8	ZTCA3351N:N umber of Calls Originated or Terminated by MSs Supporting GERAN Feature Package 1 per BSC	B1275072021.C12 78673473	Sum	hubsvbh, hubtvbh
CALL_ORIG_ TERM_MSS_G ERAN_PKG2	ACCUMULA TION	INT8	ZTCA3352A:N umber of Calls Originated or Terminated by MSs Supporting GERAN Feature Package 2 per BSC	B1275072021.C12 78673474	Sum	hubsvbh, hubtvbh
CALL_ORIG_ TERM_MSS_G ERAN_PKG2	ACCUMULA TION	INT8	ZTCA3351L:N	B1275072021.C12	Sum	hubsvbh,

TERM_MSS_GSM450	TION		umber of Calls Originated or Terminated by MSs Supporting GSM450 Band per BSC	78673471		hubtvbh
CALL_ORIG_TERM_MSS_GSM480	ACCUMULATION	INT8	ZTCA3351K: Number of Calls Originated or Terminated by MSs Supporting GSM480 Band per BSC	B1275072021.C12 78673470	Sum	hubsvbh, hubtvbh
CALL_ORIG_TERM_MSS_GSM850	ACCUMULATION	INT8	ZTCA3351J: Number of Calls Originated or Terminated by MSs Supporting GSM850 Band per BSC	B1275072021.C12 78673469	Sum	hubsvbh, hubtvbh
CALL_ORIG_TERM_MSS_PCS1900	ACCUMULATION	INT8	ZTCA3351I: Number of Calls Originated or Terminated by MSs Supporting PCS1900 Band per BSC	B1275072021.C12 78673468	Sum	hubsvbh, hubtvbh
CALL_ORIG_TERM_MSS_PGSM	ACCUMULATION	INT8	ZTCA3351E: Number of Calls Originated or Terminated by MSs Supporting P-GSM Band per BSC	B1275072021.C12 78673464	Sum	hubsvbh, hubtvbh

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CALL_ORIG_TERM_MSS_PHASE1	ACCUMULATION	INT8	ZTCA3350D: Number of Calls Originated or Terminated by MSs Supporting Phase 1 per BSC	B1275072021.C12 78673450	Sum	hubsvbh, hubtvbh
CALL_ORIG_TERM_MSS_PHASE2	ACCUMULATION	INT8	ZTCA3350E: Number of Calls Originated or Terminated by MSs Supporting Phase 2 per BSC	B1275072021.C12 78673451	Sum	hubsvbh, hubtvbh
CALL_ORIG_TERM_MSS_R99_LATERV	ACCUMULATION	INT8	ZTCA3350F: Number of Calls Originated or Terminated by MSs Supporting R99 or Later Versions per BSC	B1275072021.C12 78673452	Sum	hubsvbh, hubtvbh
CALL_ORIG_TERM_MSS_RGSM	ACCUMULATION	INT8	ZTCA3351G: Number of Calls Originated or Terminated by MSs Supporting R-GSM Band per BSC	B1275072021.C12 78673466	Sum	hubsvbh, hubtvbh
CALL_ORIG_TERM_MSS_REPEAT_ACCH	ACCUMULATION	INT8	ZTCA3352C: Number of Calls Originated or Terminated by MSs Supporting Repeated ACCH per BSC	B1275072021.C12 78673476	Sum	hubsvbh, hubtvbh
CALL_ORIG_TERM_MSS_S	ACCUMULATION	INT8	ZTCA3352B: Number of Calls	B1275072021.C12 78673475	Sum	hubsvbh, hubtvbh

AIC			Originated or Terminated by MSs Supporting SAIC per BSC			
CALL_ORIG_TERM_MSS_TERM_SMS	ACCUMULATION	INT8	ZTCA3351B: Number of Calls Originated or Terminated by MSs Supporting Mobile Terminated Point-to-Point SMS per BSC	B1275072021.C12 78673461	Sum	hubsvbh, hubtvbh
CALL_ORIG_TERM_MSS_VBS_NOTIFY	ACCUMULATION	INT8	ZTCA3351C: Number of Calls Originated or Terminated by MSs Supporting VBS and Notifications Wanted per BSC	B1275072021.C12 78673462	Sum	hubsvbh, hubtvbh
CALL_ORIG_TERM_MSS_VGCS_NOTIFY	ACCUMULATION	INT8	ZTCA3351D: Number of Calls Originated or Terminated by MSs Supporting VGCS and Notifications Wanted per BSC	B1275072021.C12 78673463	Sum	hubsvbh, hubtvbh
CCCH_LOAD_PCH_OLOAD_ABIS	ACCUMULATION	INT8	ZTL3188C: PC H Overloads due to CS Service	B1275072021.C12 78673432	Sum	hubsvbh, hubtvbh

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			Counted Through the Indications from the Abis Interface per BSC			
CCCH_LOAD_RACH_OLOAD_ABIS	ACCUMULATION	INT8	ZTL3188B:RACH Overloads due to CS Service Counted Through the Indications from the Abis Interface per BSC	B1275072021.C1278673433	Sum	hubsvbh, hubtvbh
CH_REQ_MOC_AVG	INTENSITY	FLOAT	ZTA300A:Mean Interval between Random Access Attempts per BSC (MOC)	B1275072021.C1278673428	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
CH_REQ_PACKET_CALL_AVG	INTENSITY	FLOAT	ZTA300H:Mean Interval between Random Access Attempts per BSC (PS Call)	B1275072021.C1278673429	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
CHNL_reqs_Packet_Call	ACCUMULATION	INTEGER	ZA300H:Channel Requests (Packet Call) per BSC	B1275072021.C1278673417	Sum	hubsvbh, hubtvbh
CM_SERV_REJ_CONG	ACCUMULATION	INT8	ZA3050:MSC Rejects in Response to the CM Service Requests from the MS per BSC (Congestion)	B1275072021.C1278673424	Sum	hubsvbh, hubtvbh

CM_SERV_RE J_MS_ILLEGA L	ACCUMULA TION	INT8	ZA3052:MSC Rejects in Response to the CM Service Requests from the MS per BSC (Illegal MS)	B1275072021.C12 78673426	Sum	hubsvbh, hubtvbh
CM_SERV_RE J_NET_FAIL	ACCUMULA TION	INT8	ZA3051:MSC Rejects in Response to the CM Service Requests from the MS per BSC (Network Failure)	B1275072021.C12 78673425	Sum	hubsvbh, hubtvbh
CM_SERV_RE J_OTHERS	ACCUMULA TION	INT8	ZA3053:MSC Rejects in Response to the CM Service Requests from the MS per BSC (Other Causes)	B1275072021.C12 78673427	Sum	hubsvbh, hubtvbh
DOWN_PT_TO _PT_SMS_SD	ACCUMULA TION	INT8	ZTA3340B:Nu mber of Downlink Point-to-Point Short Messages per BSC (SDCCH)	B1275072021.C12 78673439	Sum	hubsvbh, hubtvbh
DOWN_PT_TO _PT_SMS_TC H	ACCUMULA TION	INT8	ZTA3349B:Nu mber of Downlink Point-to-Point Short Messages per BSC (TCH)	B1275072021.C12 78673441	Sum	hubsvbh, hubtvbh
DOWN_PT_TO	ACCUMULA	INT8	ZTCA334B:Nu	B1275072021.C12	Sum	hubsvbh,

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_PT_SMS	TION		mber of Downlink Point-to-Point Short Messages per BSC	78673443		hubtvbh
ESTB_IND_MTC_ABIS	ACCUMULATION	INT8	ZTA3030C:Successful Pagings on the Abis Interface per BSC (CS Service)	B1275072021.C12 78673431	Sum	hubsvbh, hubtvbh
IMM_ASS_CMD_PKT_SERV_TOT	ACCUMULATION	INT8	ZTA301H:Immediate Assignment Commands per BSC (PS Service)	B1275072021.C12 78673437	Sum	hubsvbh, hubtvbh
IMM_ASS_REQ_PKT_SERV_TOT	ACCUMULATION	INT8	ZTA308H:Immediate Assignment Requests per BSC (PS Service)	B1275072021.C12 78673436	Sum	hubsvbh, hubtvbh
Imm_ass_reqs_PS_srvc	ACCUMULATION	INTEGER	ZA301H:Immediate Assignment Requests (PS Service) per BSC	B1275072021.C12 78673423	Sum	hubsvbh, hubtvbh
MS_SPT_TDD_TO_FDD_RATIO	INTENSITY	FLOAT	ZTCA3350C:Ratio of MS support TDD to MS support FDD per BSC	B1275072021.C12 78673448	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
MSG_CCCH_LOAD_IND_PCH_msgs_Sent_AbisIf	ACCUMULATION	INTEGER	ZL3188C:MSG CCCH LOAD IND (PCH) Messages Sent on Abis Interface per	B1275072021.C12 78673419	Sum	hubsvbh, hubtvbh

			BSC			
Msg_CCCH_LOAD_IND_RACH_Sent_AbisI f	ACCUMULATION	INTEGER	ZL3188B:MSG CCCH LOAD IND (RACH) Messages Sent on Abis Interface per BSC	B1275072021.C12 78673420	Sum	hubsvbh, hubtvbh
OVERLOAD_PACKET_SERV _ABIS	ACCUMULATION	INT8	ZTL3188D:PC H Overloads due to PS Service Counted through the Indications from the Abis Interface per BSC	B1275072021.C12 78673435	Sum	hubsvbh, hubtvbh
PAGING_CS_ ABIS	ACCUMULATION	INT8	ZTA330:Paging Requests on the Abis Interface per BSC (CS Service)	B1275072021.C12 78673430	Sum	hubsvbh, hubtvbh
PAGING_PS_A BIS	ACCUMULATION	INT8	ZTA331:Paging Requests on the Abis Interface per BSC (PS Service)	B1275072021.C12 78673434	Sum	hubsvbh, hubtvbh
Paging_reqs_C S_srvce	ACCUMULATION	INTEGER	ZA330:Paging Requests per BSC (CS Service) per BSC	B1275072021.C12 78673418	Sum	hubsvbh, hubtvbh
Paging_reqs_PS _srvce	ACCUMULATION	INTEGER	ZA331:Paging Requests per BSC (PS Service) per BSC	B1275072021.C12 78673421	Sum	hubsvbh, hubtvbh

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PKT_CCCH_LOAD_IND_msgs_Sent_AbisIf	ACCUMULATION	INTEGER	ZL3188D:PACKET CCCH LOAD IND Messages Sent on Abis Interface per BSC	B1275072021.C12 78673422	Sum	hubsvbh, hubtvbh
PT_TO_PT_SMS_SD	ACCUMULATION	INT8	ZTCA3340: Number of Point-to-Point Short Messages on the SDCCH per BSC	B1275072021.C12 78673444	Sum	hubsvbh, hubtvbh
PT_TO_PT_SMS_TCH	ACCUMULATION	INT8	ZTCA3349: Number of Point-to-Point Short Messages on the TCH per BSC	B1275072021.C12 78673445	Sum	hubsvbh, hubtvbh
SDCCH_SUCC_TIMES_SPEECH	ACCUMULATION	INT8	ZA3039J:SDCCH Seizures for Speech Service Per BSC	B1275072021.C12 78673449	Sum	hubsvbh, hubtvbh
SPT_FDD_MS_NUM	ACCUMULATION	INT8	ZTCA3350B: Number Of MS support FDD per BSC	B1275072021.C12 78673447	Sum	hubsvbh, hubtvbh
SPT_TDD_MS_NUM	ACCUMULATION	INT8	ZTCA3350A: Number Of MS support TDD per BSC	B1275072021.C12 78673446	Sum	hubsvbh, hubtvbh
UP_PT_TO_PT_SMS_TCH	ACCUMULATION	INT8	ZTA3349A: Number of Uplink Point-to-Point Short Messages per BSC (TCH)	B1275072021.C12 78673440	Sum	hubsvbh, hubtvbh
UP_PT_TO_PT_SMS	ACCUMULATION	INT8	ZTCA334A: Number of Uplink Point-to-Point Short Messages per BSC	B1275072021.C12 78673442	Sum	hubsvbh, hubtvbh

**7.5.18 BSC.Huawei.GSM.Cell\_broadcast\_overview**

Cell Broadcast overview

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
Atts_BSC_msg_lib	ACCUMULATION	INT8	L0485:Attempts Number of BSC Message Library	B1275070617.C12 77269445	Sum	hubsvbh, hubtvbh
CB_BSC_CBC_FAIL	ACCUMULATION	INT8	L0486:Disruptions of the BSC-CBC Connection	B1275070617.C12 77269447	Sum	hubsvbh, hubtvbh
CB_BSC_MSG_LIB_CAPACITY_NUM	INTENSITY	FLOAT	AL0484:Mean Capacity of BSC Message Library	B1275070617.C12 77269446	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
CB_BSC_TX_CB_MSG	ACCUMULATION	INT8	L0490:Number of Sent Broadcast Short Messages	B1275070617.C12 77269448	Sum	hubsvbh, hubtvbh
Configed_Cell	INTENSITY	INT8	L0491:Number of Configed Cell	B1275070617.C12 77269449	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
Covage_of_Cell_BC_Short_Msg	INTENSITY	FLOAT	AL0493:covage of Cell Broadcast Short Msg	B1275070617.C12 77269451	Average	Average, hubsvbh, hubtvbh, Maximum

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						m, Minimum, Sum
Sent_BC_Short_Msg_Cell	INTENSITY	INT8	L0492: Number of Sent Broadcast Short Msg Cell	B1275070617.C1277269450	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
Total_Capacity_of_BSC_msg_library	ACCUMULATION	INT8	L0484: Total Capacity of BSC Message Library	B1275070617.C1277269444	Sum	hubsvbh, hubtvbh

### 7.5.19 BSC.Huawei.GSM.Cell\_broadcast

Cell Broadcast requests and responses

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CB_BSC_ACK_CBCH_QURY	ACCUMULATION	INT8	L0467: REPORT Responses to STATUS-CBCH-QUERY Requests	B1275070617.C1277269427	Sum	hubsvbh, hubtvbh
CB_BSC_ACK_DEL_MSG	ACCUMULATION	INT8	L0465: REPORT Responses to KILL Requests	B1275070617.C1277269425	Sum	hubsvbh, hubtvbh
CB_BSC_ACK_MSG_QURY	ACCUMULATION	INT8	L0469: REPORT Responses to STATUS-MESSAGE-QUERY Requests	B1275070617.C1277269429	Sum	hubsvbh, hubtvbh
CB_BSC_ACK_NEW_SMS	ACCUMULATION	INT8	L0479: REPORT Responses to WRITE-REPLACE Requests (WRITE	B1275070617.C1277269439	Sum	hubsvbh, hubtvbh

			Requests)			
CB_BSC_ACK_REPLACE	ACCUMULATION	INT8	L0482:REPORT Responses to WRITE-REPLACE Requests (REPLACE Requests)	B1275070617.C127 7269442	Sum	hubsvbh, hubtvbh
CB_BSC_ACK_SET_DRX	ACCUMULATION	INT8	L0471:REPORT Responses to SET-DRX Requests	B1275070617.C127 7269431	Sum	hubsvbh, hubtvbh
CB_BSC_ACK_TX_MSG	ACCUMULATION	INT8	L0463:REPORT Responses to WRITE-REPLACE Requests	B1275070617.C127 7269423	Sum	hubsvbh, hubtvbh
CB_BSC_CBCH_OVERLOAD	ACCUMULATION	INT8	L0476:CBCH Loading Indications Received by BSC (Overflow)	B1275070617.C127 7269436	Sum	hubsvbh, hubtvbh
CB_BSC_CBCH_UNDERLOAD	ACCUMULATION	INT8	L0477:CBCH Loading Indications Received by BSC (Underflow)	B1275070617.C127 7269437	Sum	hubsvbh, hubtvbh
CB_BSC_DELETE_MSG_CMD	ACCUMULATION	INT8	L0458:KILL Requests Received by BSC	B1275070617.C127 7269418	Sum	hubsvbh, hubtvbh
CB_BSC_QUERY_CBCH_CMD	ACCUMULATION	INT8	L0459:STATUS-CBCH-QUERY Requests Received by	B1275070617.C127 7269419	Sum	hubsvbh, hubtvbh

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			BSC			
CB_BSC_QUERY_MSG_CMD	ACCUMULATION	INT8	L0460:STATUS- MESSAGE- QUERY Requests Received by BSC	B1275070617.C127 7269420	Sum	hubsvbh, hubtvbh
CB_BSC_REJ_CBCH_QUERY	ACCUMULATION	INT8	L0468:REJECT Responses to STATUS- CBCH-QUERY Requests	B1275070617.C127 7269428	Sum	hubsvbh, hubtvbh
CB_BSC_REJ_DEL_MSG	ACCUMULATION	INT8	L0466:REJECT Responses to KILL Requests	B1275070617.C127 7269426	Sum	hubsvbh, hubtvbh
CB_BSC_REJ_MSG_QUERY	ACCUMULATION	INT8	L0470:REJECT Responses to STATUS- MESSAGE- QUERY Requests	B1275070617.C127 7269430	Sum	hubsvbh, hubtvbh
CB_BSC_REJ_NEW_SMS	ACCUMULATION	INT8	L0480:REJECT Responses to WRITE- REPLACE Requests (WRITE Requests)	B1275070617.C127 7269440	Sum	hubsvbh, hubtvbh
CB_BSC_REJ_REPLACE	ACCUMULATION	INT8	L0483:REJECT Responses to WRITE- REPLACE Requests (REPLACE Requests)	B1275070617.C127 7269443	Sum	hubsvbh, hubtvbh
CB_BSC_REJ_SET_DRX	ACCUMULATION	INT8	L0472:REJECT Responses to SET-DRX Requests	B1275070617.C127 7269432	Sum	hubsvbh, hubtvbh
CB_BSC_REJ_TX_MSG	ACCUMULATION	INT8	L0464:REJECT Responses to	B1275070617.C127 7269424	Sum	hubsvbh, hubtvbh

			WRITE-REPLACE Requests			
CB_BSC_RES_SUCC	ACCUMULATION	INT8	L0473:RESTART-INDICATION Requests Sent from BSC	B1275070617.C1277269433	Sum	hubsvbh, hubtvbh
CB_BSC_RPT_FAIL	ACCUMULATION	INT8	L0475:FAILURE-INDICATION Requests Sent from BSC	B1275070617.C1277269435	Sum	hubsvbh, hubtvbh
CB_BSC_RST_CMD	ACCUMULATION	INT8	L0462:RESET Requests Received by BSC	B1275070617.C1277269422	Sum	hubsvbh, hubtvbh
CB_BSC_RST_FAIL	ACCUMULATION	INT8	L0474:REJECT Responses to RESTART-INDICATION Requests	B1275070617.C1277269434	Sum	hubsvbh, hubtvbh
CB_BSC_RX_NEW_SMS	ACCUMULATION	INT8	L0478:WRITE-REPLACE Requests (WRITE Requests) Received by BSC	B1275070617.C1277269438	Sum	hubsvbh, hubtvbh
CB_BSC_RX_REPLACE	ACCUMULATION	INT8	L0481:WRITE-REPLACE Requests (REPLACE Requests) Received by BSC	B1275070617.C1277269441	Sum	hubsvbh, hubtvbh
CB_BSC_SET_	ACCUMULATION	INT8	L0461:SET-	B1275070617.C127	Sum	hubsvbh,

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DRX_CMD	TION		DRX Requests Received by BSC	7269421		hubtvbh
CB_BSC_TX_MSG_CMD	ACCUMULATION	INT8	L0457:WRITE-REPLACE Requests Received by BSC	B1275070617.C1277269417	Sum	hubsvbh, hubtvbh
TOT_REJ_RESP	ACCUMULATION	INT8	Total REJECT Responses to Requests	B1275070617.C1277269424 + C1277269426 + C1277269428 + C1277269430 + C1277269432 + C1277269434	Sum	hubsvbh, hubtvbh
TOT_REPORT_RESP	ACCUMULATION	INT8	Total REPORT Responses to Requests	B1275070617.C1277269423 + C1277269425 + C1277269427 + C1277269429 + C1277269431	Sum	hubsvbh, hubtvbh
TOT_RX_REQ	ACCUMULATION	INT8	Total Requests Received by BSC	B1275070617.C1277269417 + C1277269418 + C1277269419 + C1277269420 + C1277269421 + C1277269422	Sum	hubsvbh, hubtvbh

### 7.5.20 BSC.Huawei.GSM.Channel\_assignment

Channel assignments

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
Ass_fails_ATB_or_unconf_imass_proc_SD	ACCUMULATION	INTEGER	ZR3120A:Channel Assignment Failures (All Channels Busy or Channels Unconfigured)	B1275072017.C1278669434	Sum	hubsvbh, hubtvbh

			in Immediate Assignment Procedure (SDCCH) per BSC			
Ass_reqs_TCH_F_Only	ACCUMULATION	INTEGER	ZA3100B:Assignment Requests (TCHF Only) Per BSC	B1275072017.C1278669515	Sum	hubsvbh, hubtvbh
Ass_reqs_TCH_F_or_TCHH_C HNL_Type_Chg	ACCUMULATION	INTEGER	ZA3100I:Assignment Requests (TCHF or TCHH, Channel Type Changeable) Per BSC	B1275072017.C1278669522	Sum	hubsvbh, hubtvbh
Ass_reqs_TCH_F_or_TCHH_C HNL_Type_UnChg	ACCUMULATION	INTEGER	ZA3100F:Assignment Requests (TCHF or TCHH, Channel Type Unchangeable) Per BSC	B1275072017.C1278669519	Sum	hubsvbh, hubtvbh
Ass_reqs_TCH_F_pref_CHNL_Type_Chg	ACCUMULATION	INTEGER	ZA3100G:Assignment Requests (TCHF Preferred, Channel Type Changeable) Per BSC	B1275072017.C1278669520	Sum	hubsvbh, hubtvbh
Ass_reqs_TCH_F_pref_CHNL_Type_UnChg	ACCUMULATION	INTEGER	ZA3100D:Assignment Requests (TCHF Preferred, Channel Type Unchangeable) Per BSC	B1275072017.C1278669517	Sum	hubsvbh, hubtvbh
Ass_reqs_TCH	ACCUMULATION	INTEGER	ZA3100C:Assig	B1275072017.C12	Sum	hubsvbh,

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H_Only	TION	ER	nment Requests (TCHH Only) Per BSC	78669516		hubtvbh
Ass_reqs_TCH H_pref_CHNL _Type_Chg	ACCUMULATION	INTEGER	ZA3100H:Assignment Requests (TCHH Preferred, Channel Type Changeable) Per BSC	B1275072017.C12 78669521	Sum	hubsvbh, hubtvbh
Ass_reqs_TCH H_pref_CHNL _Type_UnChg	ACCUMULATION	INTEGER	ZA3100E:Assignment Requests (TCHH Preferred, Channel Type Unchangeable) Per BSC	B1275072017.C12 78669518	Sum	hubsvbh, hubtvbh
CHAN_ACTIV _NACKBTS_i mm_ass_proc_ TCHF	ACCUMULATION	INTEGER	ZR3307B:CHAN ACTIV NACK Messages Sent by BTS in Immediate Assignment Procedure (TCHF) per BSC	B1275072017.C12 78669473	Sum	hubsvbh, hubtvbh
CHAN_ACTIV _NACKBTS_i mm_ass_proc_ TCHH	ACCUMULATION	INTEGER	ZR3308B:CHAN ACTIV NACK Messages Sent by BTS in Immediate Assignment Procedure (TCHH) per BSC	B1275072017.C12 78669474	Sum	hubsvbh, hubtvbh
CHNL_ACTIV _NACK_msgs_ imm_ass_proc_ SD	ACCUMULATION	INTEGER	ZR3300B:Channel ACTIV NACK Messages in Immediate Assignment	B1275072017.C12 78669439	Sum	hubsvbh, hubtvbh

			Procedure (SDCCH) per BSC			
CHNL_Activation_atts_imm_ass_proc_SD	ACCUMULATION	INTEGER	ZR3300A:Channel Activation Attempts in Immediate Assignment Procedure (SDCCH) per BSC	B1275072017.C12 78669438	Sum	hubsvbh, hubtvbh
CHNL_Activation_atts_imm_ass_proc_TCHF	ACCUMULATION	INTEGER	ZR3307A:Channel Activation Attempts in Immediate Assignment Procedure (TCHF) per BSC	B1275072017.C12 78669471	Sum	hubsvbh, hubtvbh
CHNL_Activation_atts_imm_ass_proc_TCHH	ACCUMULATION	INTEGER	ZR3308A:Channel Activation Attempts in Immediate Assignment Procedure (TCHH) per BSC	B1275072017.C12 78669472	Sum	hubsvbh, hubtvbh
CHNL_Activation_Counts_imm_ass_proc_SD	ACCUMULATION	INTEGER	ZR3300C:Channel Activation Timeout Counts in Immediate Assignment Procedure (SDCCH) per BSC	B1275072017.C12 78669440	Sum	hubsvbh, hubtvbh
CHNL_Activation_TOs_imm_ass_proc_TCH	ACCUMULATION	INTEGER	ZR3307C:Channel Activation Timeouts in	B1275072017.C12 78669475	Sum	hubsvbh, hubtvbh

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F			Immediate Assignment Procedure (TCHF) per BSC			
CHNL_Activation_TOs_imm_ass_proc_TCHH	ACCUMULATION	INTEGER	ZR3308C:Channel Activation Timeouts in Immediate Assignment Procedure (TCHH) per BSC	B1275072017.C1278669476	Sum	hubsvbh, hubtvbh
CHNL_ass_reqs_imm_ass_proc_TCH	ACCUMULATION	INTEGER	ZR3109A:Channel Assignment Requests in Immediate Assignment Procedure (TCH) per BSC	B1275072017.C1278669470	Sum	hubsvbh, hubtvbh
Fail_ass_1st_ass_No_CHNL_av_ass_proc	ACCUMULATION	INTEGER	ZA312A:Failed Assignments (First Assignment, No Channel Available in Assignment Procedure) Per BSC	B1275072017.C1278669523	Sum	hubsvbh, hubtvbh
Fail_ass_Call_Re_estab_AIf_incl_dirRty	ACCUMULATION	INTEGER	ZA312Ea:Failed Assignments during Call Re-establishment on the A Interface (Including Directed Retry) Per BSC	B1275072017.C1278669531	Sum	hubsvbh, hubtvbh
Fail_ass_emerg_Call_AIf_incl_dirRty	ACCUMULATION	INTEGER	ZA312Da:Failed Assignments during Emergency Call on the A	B1275072017.C1278669530	Sum	hubsvbh, hubtvbh

			Interface (Including Directed Retry) Per BSC			
Fail_ass_MOC_Aif_incl_dirRty	ACCUMULATION	INTEGER	ZA312Aa:Failed Assignments during MOC on the A Interface (Including Directed Retry) Per BSC	B1275072017.C1278669528	Sum	hubsvbh, hubtvbh
Fail_ass_MTC_Aif_incl_dirRty	ACCUMULATION	INTEGER	ZA312Ca:Failed Assignments during MTC on the A Interface (Including Directed Retry) Per BSC	B1275072017.C1278669529	Sum	hubsvbh, hubtvbh
Fail_ass_reconn_Old_No_CHNL_av_ass	ACCUMULATION	INTEGER	ZA312L:Failed Assignments (Reconnection to Old Channels, No Channel Available in Assignment) Per BSC	B1275072017.C1278669525	Sum	hubsvbh, hubtvbh
Fail_ass_reconn_OLD_No_CHNL_av_dir_Retry	ACCUMULATION	INTEGER	ZA312M:Failed Assignments (Reconnection to Old Channels, No Channel Available in Directed Retry) Per BSC	B1275072017.C1278669526	Sum	hubsvbh, hubtvbh
Fail_ass_sig_CHNL	ACCUMULATION	INTEGER	ZA312S:Failed Assignments	B1275072017.C1278669527	Sum	hubsvbh, hubtvbh

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			(Signaling Channel) Per BSC			
Failass_1st_ass_No_CHNL_av_dirRty_proc	ACCUMULATION	INTEGER	ZA312K:Failed Assignments (First Assignment, No Channel Available in Directed Retry Procedure) Per BSC	B1275072017.C1278669524	Sum	hubsvbh, hubtvbh
IMM_ASS_CHAN_FAIL_NO_USE_TCH	ACCUMULATION	INT8	ZR3110:TCH Channel Alloc Failed(No Usable Channel) Times In Imm Assignment Per BSC	B1275072017.C1278669574	Sum	hubsvbh, hubtvbh
Imm_ass_cmds_SDCCH	ACCUMULATION	INTEGER	ZA3010:Immediate Assignment Commands(SDCCH)per BSC	B1275072017.C1278669422	Sum	hubsvbh, hubtvbh
Imm_ass_cmds_TCHF	ACCUMULATION	INTEGER	ZA3017:Immediate Assignment Commands(TCHF)per BSC	B1275072017.C1278669423	Sum	hubsvbh, hubtvbh
Imm_ass_cmds_TCHH	ACCUMULATION	INTEGER	ZA3018:Immediate Assignment Commands(TCHH)per BSC	B1275072017.C1278669424	Sum	hubsvbh, hubtvbh
Imm_ass_reqs_SDCCH	ACCUMULATION	INTEGER	ZR3100A:Immediate Assignment Requests(SDCC H)per BSC	B1275072017.C1278669425	Sum	hubsvbh, hubtvbh
Successful_CHNL_ass_proc_TCH	ACCUMULATION	INTEGER	ZR3111:Successful Channel Assignments Procedure	B1275072017.C1278669575	Sum	hubsvbh, hubtvbh

			(TCH) per BSC			
TRX_ASS_CHAN_ALLOC_SUCC_TCHF	ACCUMULATION	INT8	ZR4117B:Successful Channel Assignments during Assignment (TCHF) per BSC	B1275072017.C1278669565	Sum	hubsvbh, hubtvbh
TRX_ASS_CHAN_ALLOC_SUCC_TCHH	ACCUMULATION	INT8	ZR4118B:Successful Channel Assignments during Assignment (TCHH) per BSC	B1275072017.C1278669566	Sum	hubsvbh, hubtvbh
TRX_IMM_ASS_CHAN_ALLOC_SUCC_TCHF	ACCUMULATION	INT8	ZR4117A:Successful Channel Assignments in Immediate Assignment Procedure (TCHF) per BSC	B1275072017.C1278669563	Sum	hubsvbh, hubtvbh
TRX_IMM_ASS_CHAN_ALLOC_SUCC_TCHH	ACCUMULATION	INT8	ZR4118A:Successful Channel Assignments in Immediate Assignment Procedure (TCHH) per BSC	B1275072017.C1278669564	Sum	hubsvbh, hubtvbh

**7.5.21 BSC.Huawei.GSM.Channel\_call\_drop**

call drops per cause

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
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Abis_terr_Link_fail_SDCC	ACCUMULATION	INTEGER	ZM303:Call Drops Due to Abis Terrestrial Link Failure(SDCC H)per BSC	B1275072017.C12 78669460	Sum	hubsvbh, hubtvbh
Abis_terr_Lk_fail_TCHF_sig_C HNL	ACCUMULATION	INTEGER	ZM343:Call Drops Due to Abis Terrestrial Link Failure (TCHF) (Signaling Channel) per BSC	B1275072017.C12 78669504	Sum	hubsvbh, hubtvbh
Abis_terr_Lk_fail_TCHH_sig_C HNL	ACCUMULATION	INTEGER	ZM353:Call Drops Due to Abis Terrestrial Link Failure (TCHH) (Signaling Channel) per BSC	B1275072017.C12 78669505	Sum	hubsvbh, hubtvbh
CD_ABIS_TLNK_FAIL_TCHF_SC	ACCUMULATION	INTEGER	ZM313:Call Drops Due to Abis Terrestrial Link Failure (TCHF) (Signaling Channel) Per BSC .Obsolete in V900R011.	B1275072017.C12 78669549	Sum	hubsvbh, hubtvbh
CD_ABIS_TLNK_FAIL_TCHH_SC	ACCUMULATION	INTEGER	ZM323:Call Drops Due to Abis Terrestrial Link Failure (TCHH) (Signaling Channel) Per BSC .Obsolete in V900R011.	B1275072017.C12 78669550	Sum	hubsvbh, hubtvbh
CD_EQUIPMENT_FAIL_TCHF_SC	ACCUMULATION	INTEGER	ZM314:Call Drops Due to Equipment	B1275072017.C12 78669551	Sum	hubsvbh, hubtvbh

			Failures (TCHF) (Signaling Channel) Per BSC .Obsolete in V900R011.			
CD_EQUIPMENT_FAIL_TCHH_SC	ACCUMULATION	INTEGER	ZM324:Call Drops Due to Equipment Failures (TCHH) (Signaling Channel) Per BSC .Obsolete in V900R011.	B1275072017.C12 78669552	Sum	hubsvbh, hubtvbh
CD_FORCED_HO_TCHF_SC	ACCUMULATION	INTEGER	ZM315:Call Drops Due to Forced Handovers (TCHF) (Signaling Channel) Per BSC .Obsolete in V900R011.	B1275072017.C12 78669553	Sum	hubsvbh, hubtvbh
CD_FORCED_HO_TCHH_SC	ACCUMULATION	INTEGER	ZM325:Call Drops Due to Forced Handovers (TCHH) (Signaling Channel) Per BSC .Obsolete in V900R011.	B1275072017.C12 78669554	Sum	hubsvbh, hubtvbh
CD_NO_MRS_TCHF_SC	ACCUMULATION	INTEGER	ZM312:Call Drops Due to No MRs from MS (TCHF) (Signaling Channel) Per	B1275072017.C12 78669547	Sum	hubsvbh, hubtvbh

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			BSC .Obsolete in V900R011.			
CD_NO_MRS_ TCHH_SC	ACCUMULA TION	INTEG ER	ZM322:Call Drops Due to No MRs from MS (TCHH) (Signaling Channel) Per BSC .Obsolete in V900R011.	B1275072017.C12 78669548	Sum	hubsvbh, hubtvbh
CONFAIL_rxd_ sig_CHNL_SS_ OM_ivent_TCH F	ACCUMULA TION	INTEG ER	ZM3401C:Call Drops Due to CONN FAIL Received from the Signaling Channel in Stable State (OM Intervention) (TCHF) per BSC	B1275072017.C12 78669485	Sum	hubsvbh, hubtvbh
CONFAIL_rxd_ sig_CHNL_SS_ OM_ivent_TCH H	ACCUMULA TION	INTEG ER	ZM3501C:Call Drops Due to CONN FAIL Received from the Signaling Channel in Stable State (OM Intervention) (TCHH) per BSC	B1275072017.C12 78669490	Sum	hubsvbh, hubtvbh
CONFAIL_rxd_ sig_CHNL_SS_ other_TCHF	ACCUMULA TION	INTEG ER	ZM3401E:Call Drops Due to CONN FAIL Received from the Signaling Channel in Stable State (other) (TCHF) per BSC	B1275072017.C12 78669487	Sum	hubsvbh, hubtvbh
CONFAIL_rxd_ sig_CHNL_SS_ other_TCHF	ACCUMULA TION	INTEG ER	ZM3501E:Call Drops Due to	B1275072017.C12 78669492	Sum	hubsvbh, hubtvbh

other_TCHH			CONN FAIL Received from the Signaling Channel in Stable State (other) (TCHH) per BSC			
CONFAIL_rxd_ sig_CHNL_SS_ RL_fail_TCHF	ACCUMULA TION	INTEG ER	ZM3401A:Call Drops Due to CONN FAIL Received from the Signaling Channel in Stable State (Radio Link Failure) (TCHF) per BSC	B1275072017.C12 78669483	Sum	hubsvbh, hubtvbh
CONFAIL_rxd_ sig_CHNL_SS_ RL_fail_TCHH	ACCUMULA TION	INTEG ER	ZM3501A:Call Drops Due to CONN FAIL Received from the Signaling Channel in Stable State (Radio Link Failure) (TCHH) per BSC	B1275072017.C12 78669488	Sum	hubsvbh, hubtvbh
CONFAIL_rxd_ sig_SS_HO_acc _fail_TCHF	ACCUMULA TION	INTEG ER	ZM3401B:Call Drops Due to CONN FAIL Received from the Signaling Channel in Stable State (HO Access Failure) (TCHF) per	B1275072017.C12 78669484	Sum	hubsvbh, hubtvbh

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			BSC			
CONFAIL_rxd_sig_SS_HO_acc_fail_TCHH	ACCUMULATION	INTEGER	ZM3501B:Call Drops Due to CONN FAIL Received from the Signaling Channel in Stable State (HO Access Failure) (TCHH) per BSC	B1275072017.C12 78669489	Sum	hubsvbh, hubtvbh
CONFAIL_rxd_sig_SS_radres_not_av_TCHF	ACCUMULATION	INTEGER	ZM3401D:Call Drops Due to CONN FAIL Received from the Signaling Channel in Stable State (Radio Resource Not Available) (TCHF) per BSC	B1275072017.C12 78669486	Sum	hubsvbh, hubtvbh
CONFAIL_rxd_sig_SS_radres_not_av_TCHH	ACCUMULATION	INTEGER	ZM3501D:Call Drops Due to CONN FAIL Received from the Signaling Channel in Stable State (Radio Resource Not Available) (TCHH) per BSC	B1275072017.C12 78669491	Sum	hubsvbh, hubtvbh
CONN_FAIL_rxd_SD_SS_Radio_res_Not_av	ACCUMULATION	INTEGER	ZM3001D:Call Drops Due to the CONN FAIL Received from SDCCH in Stable State (Radio	B1275072017.C12 78669450	Sum	hubsvbh, hubtvbh

			Resource Not Available) per BSC			
CONN_FAIL_r xd_SDCCH_SS _HO_acc_fail	ACCUMULATION	INTEGER	ZM3001B:Call Drops Due to the CONN FAIL Received from SDCCH in Stable State (HO Access Failure) per BSC	B1275072017.C12 78669448	Sum	hubsvbh, hubtvbh
CONN_FAIL_r xd_SDCCH_SS _OM_ivent	ACCUMULATION	INTEGER	ZM3001C:Call Drops Due to the CONN FAIL Received from SDCCH in Stable State (OM Intervention) per BSC	B1275072017.C12 78669449	Sum	hubsvbh, hubtvbh
CONN_FAIL_r xd_SDCCH_SS _Others	ACCUMULATION	INTEGER	ZM3001E:Call Drops Due to the CONN FAIL Received from SDCCH in Stable State (Others) per BSC	B1275072017.C12 78669451	Sum	hubsvbh, hubtvbh
CONN_FAIL_r xd_SDCCH_SS _RL_fail	ACCUMULATION	INTEGER	ZM3001A:Call Drops Due to the CONN FAIL Received from SDCCH in Stable State (Radio Link Failure) per BSC	B1275072017.C12 78669447	Sum	hubsvbh, hubtvbh

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Equipment_fails_SDCCH	ACCUMULATION	INTEGER	ZM304:Call Drops Due to Equipment Failures(SDCCH)per BSC	B1275072017.C1278669461	Sum	hubsvbh, hubtvbh
Equipment_fails_TCHF_sig_CHNL	ACCUMULATION	INTEGER	ZM344:Call Drops Due to Equipment Failures (TCHF) (Signaling Channel) per BSC	B1275072017.C1278669506	Sum	hubsvbh, hubtvbh
Equipment_fails_TCHH_sig_CHNL	ACCUMULATION	INTEGER	ZM354:Call Drops Due to Equipment Failures (TCHH) (Signaling Channel) per BSC	B1275072017.C1278669507	Sum	hubsvbh, hubtvbh
ERR_IND_rxd_SDCCH_SS_seq_error	ACCUMULATION	INTEGER	ZM3000C:Call Drops Due to ERR IND Received from SDCCH in Stable State (Sequence error) per BSC	B1275072017.C1278669446	Sum	hubsvbh, hubtvbh
ERR_IND_rxd_SDCCH_SS_T200_exp	ACCUMULATION	INTEGER	ZM3000A:Call Drops Due to ERR IND Received from SDCCH in Stable State (T200 Expired) per BSC	B1275072017.C1278669444	Sum	hubsvbh, hubtvbh
ERR_IND_rxd_SDCCH_SS_unsol_DM_resp	ACCUMULATION	INTEGER	ZM3000B:Call Drops Due to ERR IND Received from SDCCH in Stable State	B1275072017.C1278669445	Sum	hubsvbh, hubtvbh

			(Unsolicited DM response) per BSC			
Errind_rxd_sig_CHNL_SS_seq_error_TCHF	ACCUMULATION	INTEGER	ZM3400C:Call Drops Due to ERR IND Received from the Signaling Channel in Stable State (Sequence error) (TCHF) per BSC	B1275072017.C1278669479	Sum	hubsvbh, hubtvbh
Errind_rxd_sig_CHNL_SS_seq_error_TCHH	ACCUMULATION	INTEGER	ZM3500C:Call Drops Due to ERR IND Received from the Signaling Channel in Stable State (Sequence error) (TCHH) per BSC	B1275072017.C1278669482	Sum	hubsvbh, hubtvbh
Errind_rxd_sig_CHNL_SS_T200_exp_TCHF	ACCUMULATION	INTEGER	ZM3400A:Call Drops Due to ERR IND Received from the Signaling Channel in Stable State (T200 Expired) (TCHF) per BSC	B1275072017.C1278669477	Sum	hubsvbh, hubtvbh
Errind_rxd_sig_CHNL_SS_T200_exp_TCHH	ACCUMULATION	INTEGER	ZM3500A:Call Drops Due to ERR IND Received from the Signaling Channel in	B1275072017.C1278669480	Sum	hubsvbh, hubtvbh

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			Stable State (T200 Expired) (TCHH) per BSC			
Errind_rxd_sig_SS_unsol_DM_resp_TCHF	ACCUMULATION	INTEGER	ZM3400B:Call Drops Due to ERR IND Received from the Signaling Channel in Stable State (Unsolicited DM Response) (TCHF) per BSC	B1275072017.C12 78669478	Sum	hubsvbh, hubtvbh
Errind_rxd_sig_SS_unsol_DM_resp_TCHH	ACCUMULATION	INTEGER	ZM3500B:Call Drops Due to ERR IND Received from the Signaling Channel in Stable State (Unsolicited DM Response) (TCHH) per BSC	B1275072017.C12 78669481	Sum	hubsvbh, hubtvbh
Forced_HOs_SDCCH	ACCUMULATION	INTEGER	ZM305:Call Drops Due to Forced Handovers(SDCCH)per BSC	B1275072017.C12 78669462	Sum	hubsvbh, hubtvbh
Forced_HOs_TCHF_sig_CHANNEL	ACCUMULATION	INTEGER	ZM345:Call Drops Due to Forced Handovers (TCHF) (Signaling Channel) per BSC	B1275072017.C12 78669508	Sum	hubsvbh, hubtvbh
Forced_HOs_TCHH_sig_CHANNEL	ACCUMULATION	INTEGER	ZM355:Call Drops Due to Forced Handovers	B1275072017.C12 78669509	Sum	hubsvbh, hubtvbh

			(TCHH) (Signaling Channel) per BSC			
No_MRs_MS_S DCCH	ACCUMULA TION	INTEG ER	ZM302:Call Drops Due to No MRs from MS (SDCCH)per BSC	B1275072017.C12 78669459	Sum	hubsvbh, hubtvbh
No_MRs_MS_T CHF_sig_CHN L	ACCUMULA TION	INTEG ER	ZM342:Call Drops Due to No MRs from MS (TCHF) (Signaling Channel) per BSC	B1275072017.C12 78669502	Sum	hubsvbh, hubtvbh
No_MRs_MS_T CHH_sig_CHN L	ACCUMULA TION	INTEG ER	ZM352:Call Drops Due to No MRs from MS (TCHH) (Signaling Channel) per BSC	B1275072017.C12 78669503	Sum	hubsvbh, hubtvbh
REL_IND_rxd_ sig_CHNL_SS_ TCHF	ACCUMULA TION	INTEG ER	ZM3402:Call Drops Due to the REL IND Received from the Signaling Channel in Stable State(TCHF) per BSC	B1275072017.C12 78669494	Sum	hubsvbh, hubtvbh
REL_IND_rxd_ sig_CHNL_SS_ TCHH	ACCUMULA TION	INTEG ER	ZM3502:Call Drops Due to the REL IND Received from the Signaling	B1275072017.C12 78669493	Sum	hubsvbh, hubtvbh

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			Channel in Stable State(TCHH) per BSC			
Rls_ind_SS_SD CCH	ACCUMULATION	INTEGER	ZM3002:Call Drops Due to Release Indications in Stable State (SDCCH) per BSC	B1275072017.C12 78669458	Sum	hubsvbh, hubtvbh

### 7.5.22 BSC.Huawei.GSM.Channel\_handovers

Handover requests and failures

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
Ext_intraC_HOs_T8_Expiry_TCHF_sig_CHANNEL	ACCUMULATION	INTEGER	ZH3327Ca:Failed Outgoing External Intra-Cell Handovers (T8 Expiry) (TCHF) (Signaling Channel) Per BSC	B1275072017.C12 78669544	Sum	hubsvbh, hubtvbh
Ext_intraC_HOs_T8_Expiry_TCHH_sig_CHANNEL	ACCUMULATION	INTEGER	ZH3328Ca:Failed Outgoing External Intra-Cell Handovers (T8 Expiry) (TCHH) (Signaling Channel) Per BSC	B1275072017.C12 78669545	Sum	hubsvbh, hubtvbh
Ext_IrC_HOs_T7_Expiry_SD_exdirRty	ACCUMULATION	INTEGER	ZH3320C:Failed Outgoing External Inter-Cell Handovers (T7 Expiry) (SDCCH)	B1275072017.C12 78669455	Sum	hubsvbh, hubtvbh

			(Excluding Directed Retry) per BSC			
Ext_IrC_HOs_T8_Expiry_TCHF_sig_CHNL	ACCUMULATION	INTEGER	ZH3327Cb:Failed Outgoing External Inter-Cell Handovers (T8 Expiry) (TCHF) (Signaling Channel) per BSC	B1275072017.C12 78669499	Sum	hubsvbh, hubtvbh
Ext_IrC_HOs_T8_Expiry_TCHH_sig_CHNL	ACCUMULATION	INTEGER	ZH3328Cb:Failed Outgoing External Inter-Cell Handovers (T8 Expiry) (TCHH) (Signaling Channel) per BSC	B1275072017.C12 78669500	Sum	hubsvbh, hubtvbh
Ext_IrCell_HOs_T7_Expiry_dir_Retry	ACCUMULATION	INTEGER	ZH3321C:Failed Outgoing External Inter-Cell Handovers (T7 Expiry) (Directed Retry) per BSC	B1275072017.C12 78669456	Sum	hubsvbh, hubtvbh
Fail_Inc_ext_inttraC_HOs_CHNL_Unav_SD	ACCUMULATION	INTEGER	ZH3420A:Failed Incoming External Intra-Cell Handovers (Channel Unavailable) (SDCCH) per BSC	B1275072017.C12 78669437	Sum	hubsvbh, hubtvbh
Fail_Inc_ext_IrC_HOs_Timer_	ACCUMULATION	INTEGER	ZH3420C:Failed Incoming	B1275072017.C12 78669457	Sum	hubsvbh, hubtvbh

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exp_SD			External Inter-Cell Handovers (Timer Expired) (SDCCH) per BSC			
Fail_Inc_ext_IrC_HOTimer_exp_TCH_sig	ACCUMULATION	INTEGER	ZH3429Cb:Failed Incoming External Inter-Cell Handovers (Timer Expired) (TCH) (Signaling Channel) per BSC	B1275072017.C1278669501	Sum	hubsvbh, hubtvbh
Fail_Inc_int_intraC_HOs_CHNL_Unav_SD	ACCUMULATION	INTEGER	ZH3220A:Failed Incoming Internal Intra-Cell Handovers (Channel Unavailable) (SDCCH) per BSC	B1275072017.C1278669436	Sum	hubsvbh, hubtvbh
FAIL_INTRAC_HO_TIMEX_TCHF_SC	ACCUMULATION	INTEGER	ZH3027Ca:Failed Internal Intra-Cell Handovers (Timer Expired) (TCHF) (Signaling Channel) per BSC .Obsolete in V900R011.	B1275072017.C1278669540	Sum	hubsvbh, hubtvbh
FAIL_INTRAC_HO_TIMEX_TCHH_SC	ACCUMULATION	INTEGER	ZH3028Ca:Failed Internal Intra-Cell Handovers (Timer Expired) (TCHH) (Signaling	B1275072017.C1278669541	Sum	hubsvbh, hubtvbh

			Channel) per BSC .Obsolete in V900R011.			
FailInc_int_intraC_HO_Timer_expired_TCH_sig	ACCUMULATION	INTEGER	ZH3429Ca:Failed Incoming Internal Intra-Cell Handovers (Timer Expired) (TCH) (Signaling Channel) Per BSC	B1275072017.C12 78669546	Sum	hubsvbh, hubtvbh
Inc_ext_IntraC_HO_det_Times_SDCCH	ACCUMULATION	INTEGER	ZH3440:Incoming External Intra-cell Handover Detection Times (SDCCH) per BSC	B1275072017.C12 78669443	Sum	hubsvbh, hubtvbh
Inc_ext_intraC_HO_reqs_SD_1800_900	ACCUMULATION	INTEGER	ZH3400Z:Incoming External Intra-Cell Handover Requests(SDCCH) (1800/1900-900/850)per BSC	B1275072017.C12 78669433	Sum	hubsvbh, hubtvbh
Inc_ext_intraC_HO_reqs_SD_900_1800	ACCUMULATION	INTEGER	ZH3400Y:Incoming External Intra-Cell Handover Requests(SDCCH) (900/850-1800/1900)per BSC	B1275072017.C12 78669432	Sum	hubsvbh, hubtvbh
Inc_ext_intraC_	ACCUMULATION	INTEGER	ZH3400W:Inco	B1275072017.C12	Sum	hubsvbh,

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HO_reqs_SD_900_900	TION	ER	ming External Intra-Cell Handover Requests(SDCCH) (900/850-900/850)per BSC	78669431		hubtvbh
Inc_ext_IrC_HOrq_TCH_1800_1800	ACCUMULATION	INTEGER	ZH3409X:Incoming External Inter-Cell Handover Requests (TCH) (1800/1900-1800/1900) Per BSC	B1275072017.C1278669561	Sum	hubsvbh, hubtvbh
Inc_ext_IrCell_HO_reqs_TCH_900_900	ACCUMULATION	INTEGER	ZH3409W:Incoming External Inter-Cell Handover Requests (TCH) (900/850-900/850) Per BSC	B1275072017.C1278669560	Sum	hubsvbh, hubtvbh
Inc_int_IntraC_HO_det_Times_SDCCH	ACCUMULATION	INTEGER	ZH3240:Incoming Internal Intra-cell Handover Detection Times (SDCCH) per BSC	B1275072017.C1278669442	Sum	hubsvbh, hubtvbh
Inc_int_intraC_HO_reqs_SD_1800_1800	ACCUMULATION	INTEGER	ZH3200X:Incoming Internal Intra-Cell Handover Requests(SDCCH) (1800/1900-1800/1900)per BSC	B1275072017.C1278669428	Sum	hubsvbh, hubtvbh
Inc_int_intraC_HO_reqs_SD_1800_1800	ACCUMULATION	INTEGER	ZH3200Z:Incoming Internal	B1275072017.C1278669430	Sum	hubsvbh, hubtvbh

800_900			Intra-Cell Handover Requests(SDC CH) (1800/1900-900/850)per BSC			
Inc_int_intraC_HO_reqs_SD_900_1800	ACCUMULATION	INTEGER	ZH3200Y:Incoming Internal Intra-Cell Handover Requests(SDC CH) (900/850-1800/1900)per BSC	B1275072017.C1278669429	Sum	hubsvbh, hubtvbh
Inc_int_intraC_HO_reqs_SD_900_900	ACCUMULATION	INTEGER	ZH3200W:Incoming Internal Intra-Cell Handover Requests(SDC CH) (900/850-900/850)per BSC	B1275072017.C1278669427	Sum	hubsvbh, hubtvbh
Inc_int_IrC_HO_req_TCH_1800_1800	ACCUMULATION	INTEGER	ZH3209X:Incoming Internal Inter-Cell Handover Requests (TCH) (1800/1900-1800/1900)Per BSC	B1275072017.C1278669557	Sum	hubsvbh, hubtvbh
Inc_int_IrCell_HO_reqs_TCH_1800_900	ACCUMULATION	INTEGER	ZH3209Z:Incoming Internal Inter-Cell Handover Requests (TCH) (1800/1900-900/850) Per BSC	B1275072017.C1278669559	Sum	hubsvbh, hubtvbh

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Inc_int_IrCell_HO_reqs_TCH_900_1800	ACCUMULATION	INTEGER	ZH3209Y:Incoming Internal Inter-Cell Handover Requests (TCH) (900/850-1800/1900) Per BSC	B1275072017.C12 78669558	Sum	hubsvbh, hubtvbh
Inc_int_IrCell_HO_reqs_TCH_900_900	ACCUMULATION	INTEGER	ZH3209W:Incoming Internal Inter-Cell Handover Requests (TCH) (900/850-900/850) Per BSC	B1275072017.C12 78669556	Sum	hubsvbh, hubtvbh
Int_intraC_HOs_Timer_exp_TCHF_sig_CHNL	ACCUMULATION	INTEGER	ZH3127Ca:Failed Outgoing Internal Intra-Cell Handovers (Timer Expired) (TCHF) (Signaling Channel) Per BSC	B1275072017.C12 78669542	Sum	hubsvbh, hubtvbh
Int_intraC_HOs_Timer_exp_TCHH_sig_CHNL	ACCUMULATION	INTEGER	ZH3128Ca:Failed Outgoing Internal Intra-Cell Handovers (Timer Expired) (TCHH) (Signaling Channel) Per BSC	B1275072017.C12 78669543	Sum	hubsvbh, hubtvbh
Int_IntraCell_HO_det_Times_SDCCH	ACCUMULATION	INTEGER	ZH3040:Internal Intra-cell Handover Detection Times (SDCCH) per BSC	B1275072017.C12 78669441	Sum	hubsvbh, hubtvbh

Int_IntraCell_HO_reqs_SDCC_H	ACCUMULATION	INTEGER	ZH3000:Internal Intra-Cell Handover Requests (SDCCH)per BSC	B1275072017.C12 78669426	Sum	hubsvbh, hubtvbh
Int_IrC_HOs_Timer_exp_SD_exdirRty	ACCUMULATION	INTEGER	ZH3120C:Failed Outgoing Internal Inter-Cell Handovers (Timer Expired) (SDCCH) (Excluding Directed Retry) per BSC	B1275072017.C12 78669454	Sum	hubsvbh, hubtvbh
Int_IrC_HOs_Timer_exp_TCHF_sig_CHNL	ACCUMULATION	INTEGER	ZH3127Cb:Failed Outgoing Internal Inter-Cell Handovers (Timer Expired) (TCHF) (Signaling Channel) per BSC	B1275072017.C12 78669497	Sum	hubsvbh, hubtvbh
Int_IrC_HOs_Timer_exp_TCH_H_sig_CHNL	ACCUMULATION	INTEGER	ZH3128Cb:Failed Outgoing Internal Inter-Cell Handovers (Timer Expired) (TCHH) (Signaling Channel) per BSC	B1275072017.C12 78669498	Sum	hubsvbh, hubtvbh
Int_IrCell_HO_reqs_TCH	ACCUMULATION	INTEGER	ZH3009:Internal Inter-Cell Handover	B1275072017.C12 78669555	Sum	hubsvbh, hubtvbh

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			Requests (TCH) Per BSC			
Int_IrCell_HOs _Timer_exp_dir _Retry	ACCUMULA TION	INTEG ER	ZH3121C:Faile d Outgoing Internal Inter- Cell Handovers (Timer Expired) (Directed Retry) per BSC	B1275072017.C12 78669453	Sum	hubsvbh, hubtvbh
IntraC_HOs_Ti mer_exp_TCHF _sig_CHNL	ACCUMULA TION	INTEG ER	ZH3027Cb:Fail ed Internal Intra-Cell Handovers (Timer Expired) (TCHF) (Signaling Channel) per BSC	B1275072017.C12 78669495	Sum	hubsvbh, hubtvbh
IntraC_HOs_Ti mer_exp_TCH H_sig_CHNL	ACCUMULA TION	INTEG ER	ZH3028Cb:Fail ed Internal Intra-Cell Handovers (Timer Expired) (TCHH) (Signaling Channel) per BSC	B1275072017.C12 78669496	Sum	hubsvbh, hubtvbh
IntraCell_HOs_ CHNL_Unav_S DCCH	ACCUMULA TION	INTEG ER	ZH3020A:Faile d Internal Intra- Cell Handovers (Channel Unavailable) (SDCCH) per BSC	B1275072017.C12 78669435	Sum	hubsvbh, hubtvbh
IrCell_HOs_Ti mer_exp_SDCC H	ACCUMULA TION	INTEG ER	ZH3020C:Faile d Internal Inter- Cell Handovers (Timer Expired)	B1275072017.C12 78669452	Sum	hubsvbh, hubtvbh

			(SDCCH) per BSC			
TRX_INTERBSC_HO_SUCC_TCHF	ACCUMULATION	INT8	ZR4117E:Successful Channel Assignments in Incoming External Inter-Cell Handover Procedure (TCHF) per BSC	B1275072017.C1278669571	Sum	hubsvbh, hubtvbh
TRX_INTERBSC_HO_SUCC_TCHH	ACCUMULATION	INT8	ZR4118E:Successful Channel Assignments in Incoming External Inter-Cell Handover Procedure (TCHH) per BSC	B1275072017.C1278669572	Sum	hubsvbh, hubtvbh
TRX_INTRABSC_HO_SUCC_TCHF	ACCUMULATION	INT8	ZR4117D:Successful Channel Assignments in Incoming Internal Inter-Cell Handover Procedure (TCHF) per BSC	B1275072017.C1278669569	Sum	hubsvbh, hubtvbh
TRX_INTRABSC_HO_SUCC_TCHH	ACCUMULATION	INT8	ZR4118D:Successful Channel Assignments in Incoming Internal Inter-Cell Handover Procedure (TCHH) per BSC	B1275072017.C1278669570	Sum	hubsvbh, hubtvbh

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TRX_INTRACELL_HO_SUC C_TCHF	ACCUMULATION	INT8	ZR4117C:Successful Channel Assignments in Internal Intra-Cell Handover Procedure (TCHF) per BSC	B1275072017.C12 78669567	Sum	hubsvbh, hubtvbh
TRX_INTRACELL_HO_SUC C_TCHH	ACCUMULATION	INT8	ZR4118C:Successful Channel Assignments in Internal Intra-Cell Handover Procedure (TCHH) per BSC	B1275072017.C12 78669568	Sum	hubsvbh, hubtvbh

### 7.5.23 BSC.Huawei.GSM.Channel\_miscellaneous

Miscellaneous channel related KPIs.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ASS_REQ_SIG_CHAN_SD CCH	ACCUMULATION	INT8	ZA3100K:Assignment Request Times(Sig Channel) (SDCCH) Per BSC	B1275072017.C12 78669573	Sum	hubsvbh, hubtvbh
Assinment_req_Times_Sig_C HNL_TCH	ACCUMULATION	INTEGER	ZA3100A:Assinment Request Times(Sig Channel)(TCH) Per BSC	B1275072017.C12 78669514	Sum	hubsvbh, hubtvbh
Attemps_of_Co nfigured_CHN Ls	ACCUMULATION	INTEGER	ZR303:Number of Attempts of Configured Channels per BSC	B1275072017.C12 78669466	Sum	hubsvbh, hubtvbh
Av_SDCCH_1 800_1900_Cell	ACCUMULATION	INTEGER	ZR3020B:Num ber of Available	B1275072017.C12 78669467	Sum	hubsvbh, hubtvbh

			Channels (SDCCH) (1800/1900 Cell) per BSC			
Av_SDCCH_900_850_Cell	ACCUMULATION	INTEGER	ZR3020A: Number of Available Channels (SDCCH) (900/850 Cell) per BSC	B1275072017.C12 78669465	Sum	hubsvbh, hubtvbh
CHNL_reqs_Call_Re_estab	ACCUMULATION	INTEGER	ZA300E: Channel Requests (Call Re-establishment) per BSC	B1275072017.C12 78669420	Sum	hubsvbh, hubtvbh
CHNL_reqs_emerg_Call	ACCUMULATION	INTEGER	ZA300D: Channel Requests (Emergency Call) per BSC	B1275072017.C12 78669419	Sum	hubsvbh, hubtvbh
CHNL_reqs_Location_Updating	ACCUMULATION	INTEGER	ZA300F: Channel Requests (Location Updating) per BSC	B1275072017.C12 78669421	Sum	hubsvbh, hubtvbh
CHNL_reqs_MOC	ACCUMULATION	INTEGER	ZA300A: Channel Requests (MOC) per BSC	B1275072017.C12 78669417	Sum	hubsvbh, hubtvbh
CHNL_reqs_MTC	ACCUMULATION	INTEGER	ZA300C: Channel Requests (MTC) per BSC	B1275072017.C12 78669418	Sum	hubsvbh, hubtvbh
Dyn_confured_SDCCH_1800_1900_Cell	ACCUMULATION	INTEGER	ZR3010B: Number of Dynamically Configured Channels (SDCCH) (1800/1900	B1275072017.C12 78669469	Sum	hubsvbh, hubtvbh

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			Cell) per BSC			
Dyn_confured_SDCCH_900_850_Cell	ACCUMULATION	INTEGER	ZR3010A: Number of Dynamically Configured Channels (SDCCH) (900/850 Cell) per BSC	B1275072017.C12 78669468	Sum	hubsvbh, hubtvbh
Fail_MM_atts_Call_Re_estab_TCHF	ACCUMULATION	INTEGER	ZA3157E: Failed Mode Modify Attempts (Call Re-establishment) (TCHF) Per BSC	B1275072017.C12 78669535	Sum	hubsvbh, hubtvbh
Fail_MM_atts_Call_Re_estab_TCHH	ACCUMULATION	INTEGER	ZA3158E: Failed Mode Modify Attempts (Call Re-establishment) (TCHH) Per BSC	B1275072017.C12 78669539	Sum	hubsvbh, hubtvbh
Fail_MM_atts_emerg_Call_TCHF	ACCUMULATION	INTEGER	ZA3157D: Failed Mode Modify Attempts (Emergency Call) (TCHF) Per BSC	B1275072017.C12 78669534	Sum	hubsvbh, hubtvbh
Fail_MM_atts_emerg_Call_TCHH	ACCUMULATION	INTEGER	ZA3158D: Failed Mode Modify Attempts (Emergency Call) (TCHH) Per BSC	B1275072017.C12 78669538	Sum	hubsvbh, hubtvbh
Fail_MM_atts_MOC_TCHF	ACCUMULATION	INTEGER	ZA3157A: Failed Mode Modify Attempts (MOC) (TCHF) Per BSC	B1275072017.C12 78669532	Sum	hubsvbh, hubtvbh
Fail_MM_atts_	ACCUMULATION	INTEGER	ZA3158A: Faile	B1275072017.C12	Sum	hubsvbh,

MOC_TCHH	TION	ER	d Mode Modify Attempts (MOC) (TCHH) Per BSC	78669536		hubtvbh
Fail_MM_atts_MTC_TCHF	ACCUMULATION	INTEGRER	ZA3157C:Failed Mode Modify Attempts (MTC) (TCHF) Per BSC	B1275072017.C12 78669533	Sum	hubsvbh, hubtvbh
Fail_MM_atts_MTC_TCHH	ACCUMULATION	INTEGRER	ZA3158C:Failed Mode Modify Attempts (MTC) (TCHH) Per BSC	B1275072017.C12 78669537	Sum	hubsvbh, hubtvbh
MRs_on_sig_SDCCH_M1800_1900_Cell	ACCUMULATION	INTEGRER	ZS3010B:MRs on Signaling Channels (SDCCH) (M1800/1900 Cell) per BSC	B1275072017.C12 78669464	Sum	hubsvbh, hubtvbh
MRs_on_sig_SDCCH_M900_850_Cell	ACCUMULATION	INTEGRER	ZS3010A:MRs on Signaling Channels (SDCCH) (M900/850 Cell) per BSC	B1275072017.C12 78669463	Sum	hubsvbh, hubtvbh
MRs_on_sig_TCHF_M1800_1900_Cell	ACCUMULATION	INTEGRER	ZS3017B:MRs on Signaling Channels (TCHF) (M1800/1900 Cell) per BSC	B1275072017.C12 78669510	Sum	hubsvbh, hubtvbh
MRs_on_sig_TCHF_M900_850_Cell	ACCUMULATION	INTEGRER	ZS3017A:MRs on Signaling Channels (TCHF) (M900/850 Cell) per BSC	B1275072017.C12 78669511	Sum	hubsvbh, hubtvbh

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MRs_on_sig_T CHH_M1800_ 1900_Cell	ACCUMULA TION	INTEG ER	ZS3018B:MRs on Signaling Channels (TCHH) (M1800/1900 Cell) per BSC	B1275072017.C12 78669513	Sum	hubsvbh, hubtvbh
MRs_on_sig_T CHH_M900_8 50_Cell	ACCUMULA TION	INTEG ER	ZS3018A:MRs on Signaling Channels (TCHH) (M900/850 Cell) per BSC	B1275072017.C12 78669512	Sum	hubsvbh, hubtvbh

### 7.5.24 BSC.Huawei.GSM.Handover\_attempt\_internal

Internal intra-cell handover requests

KPI	Type	Data Type	Description	Derivation	Default Aggregat or	Other Aggrega tors
Int_IntraCell_ HO_reqs_AM R_TCHF_TCH H	ACCUMULA TION	INTEG ER	ZH9005A:Inter nal Intra-Cell Handover Requests (AMR) (TCHF- TCHH) per BSC	B1275072048.C127 8700441	Sum	
Int_IntraCell_ HO_reqs_AM R_TCHH_TC HF	ACCUMULA TION	INTEG ER	ZH9005B:Inter nal Intra-Cell Handover Requests (AMR) (TCHH-TCHF) per BSC	B1275072048.C127 8700442	Sum	
Int_IntraCell_ HO_reqs_olaid _ulaid	ACCUMULA TION	INTEG ER	ZH9001:Intern al Intra-Cell Handover Requests (Overlaid to Underlaid) per BSC	B1275072048.C127 8700440	Sum	
Int_IntraCell_ _	ACCUMULA	INTEG	ZH9002:Intern	B1275072048.C127	Sum	

HO_reqs_ulaid_olaid	TION	ER	l Intra-Cell Handover Requests (Underlaid to Overlaid) per BSC	8700439		
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### 7.5.25 BSC.Huawei.GSM.Handover\_attempt\_outgoing

Outgoing external and internal inter-cell Handover attempts

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
O_ext_IrC_HOrq_Rapid_lv1_Drop	ACCUMULATION	INTEGER	ZH930H:Outgoing External Inter-Cell Handover Requests (Rapid Level Drop) per BSC	B1275072048.C1278700432	Sum	
O_int_IrC_HOrq_Rapid_lv1_Drop	ACCUMULATION	INTEGER	ZH910H:Outgoing Internal Inter-Cell Handover Requests (Rapid Level Drop) per BSC	B1275072048.C1278700431	Sum	
Out_ext_IrCell_HO_reqs_Better_Cell	ACCUMULATION	INTEGER	ZH930F:Outgoing External Inter-Cell Handover Requests (Better Cell) per BSC	B1275072048.C1278700428	Sum	
Out_ext_IrCell_HO_reqs_dl_Qual	ACCUMULATION	INTEGER	ZH930B:Outgoing External Inter-Cell Handover	B1275072048.C1278700420	Sum	

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			Requests (Downlink Quality) per BSC			
Out_ext_IrCell_HO_reqs_dl_stgth	ACCUMULATION	INTEGER	ZH930D:Outgoing External Inter-Cell Handover Requests (Downlink Strength) per BSC	B1275072048.C1278700424	Sum	
Out_ext_IrCell_HO_reqs_Load	ACCUMULATION	INTEGER	ZH930G:Outgoing External Inter-Cell Handover Requests (Load) per BSC	B1275072048.C1278700430	Sum	
Out_ext_IrCell_HO_reqs_MSC_ivent	ACCUMULATION	INTEGER	ZH930I:Outgoing External Inter-Cell Handover Requests (MSC Intervention) per BSC	B1275072048.C1278700434	Sum	
Out_ext_IrCell_HO_reqs_OM_ivent	ACCUMULATION	INTEGER	ZH930J:Outgoing External Inter-Cell Handover Requests (OM Intervention) per BSC	B1275072048.C1278700436	Sum	
Out_ext_IrCell_HO_reqs_Other	ACCUMULATION	INTEGER	ZH930L:Outgoing External Inter-Cell Handover Requests (Other Causes) per BSC	B1275072048.C1278700438	Sum	
Out_ext_IrCell_HO_reqs_TA	ACCUMULATION	INTEGER	ZH930E:Outgoing External Inter-Cell	B1275072048.C1278700426	Sum	

			Handover Requests (Timing Advance) per BSC			
Out_ext_IrCell_HO_reqs_ul_Qual	ACCUMULATION	INTEGER	ZH930A:Outgoing External Inter-Cell Handover Requests (Uplink Quality) per BSC	B1275072048.C1278700418	Sum	
Out_ext_IrCell_HO_reqs_ul_stgth	ACCUMULATION	INTEGER	ZH930C:Outgoing External Inter-Cell Handover Requests (Uplink Strength) per BSC	B1275072048.C1278700422	Sum	
Out_int_IrCell_HO_reqs_Better_Cell	ACCUMULATION	INTEGER	ZH910F:Outgoing Internal Inter-Cell Handover Requests (Better Cell) per BSC	B1275072048.C1278700427	Sum	
Out_int_IrCell_HO_reqs_dl_Qual	ACCUMULATION	INTEGER	ZH910B:Outgoing Internal Inter-Cell Handover Requests (Downlink Quality) per BSC	B1275072048.C1278700419	Sum	
Out_int_IrCell_HO_reqs_dl_	ACCUMULATION	INTEGER	ZH910D:Outgoing Internal	B1275072048.C1278700423	Sum	

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stgth			Inter-Cell Handover Requests (Downlink Strength) per BSC			
Out_int_IrCell_HO_reqs_Load	ACCUMULATION	INTEGER	ZH910G:Outgoing Internal Inter-Cell Handover Requests (Load) per BSC	B1275072048.C1278700429	Sum	
Out_int_IrCell_HO_reqs_MSC_ivent	ACCUMULATION	INTEGER	ZH910I:Outgoing Internal Inter-Cell Handover Requests (MSC Intervention) per BSC	B1275072048.C1278700433	Sum	
Out_int_IrCell_HO_reqs_OM_ivent	ACCUMULATION	INTEGER	ZH910J:Outgoing Internal Inter-Cell Handover Requests (OM Intervention) per BSC	B1275072048.C1278700435	Sum	
Out_int_IrCell_HO_reqs_Other	ACCUMULATION	INTEGER	ZH910L:Outgoing Internal Inter-Cell Handover Requests (Other Causes) per BSC	B1275072048.C1278700437	Sum	
Out_int_IrCell_HO_reqs_TA	ACCUMULATION	INTEGER	ZH910E:Outgoing Internal Inter-Cell Handover Requests (Timing Advance) per BSC	B1275072048.C1278700425	Sum	
Out_int_IrCell	ACCUMULATION	INTEGER	ZH910A:Outgo	B1275072048.C127	Sum	

_HO_reqs_ul_Qual	TION	ER	ing Internal Inter-Cell Handover Requests (Uplink Quality) per BSC	8700417		
Out_int_IrCell_HO_reqs_ul_stgth	ACCUMULATION	INTEGER	ZH910C:Outgoing Internal Inter-Cell Handover Requests (Uplink Strength) per BSC	B1275072048.C1278700421	Sum	
TOT_OUT_EXTERNAL_INT_CEL_L_HO_RQ	ACCUMULATION	INTEGER	Total Outgoing External Inter-Cell Handover Requests per BSC	B1275072048.C1278700418 + C1278700420 + C1278700422 + C1278700424 + C1278700426 + C1278700428 + C1278700430 + C1278700432 + C1278700434 + C1278700436 + C1278700438	Sum	
TOT_OUT_INTERNAL_INT_CEL_L_HO_RQ	ACCUMULATION	INTEGER	Total Outgoing Internal Inter-Cell Handover Requests per BSC	B1275072048.C1278700417 + C1278700419 + C1278700421 + C1278700423 + C1278700425 + C1278700427 + C1278700429 + C1278700431 + C1278700433 + C1278700435 + C1278700437	Sum	

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### 7.5.26 BSC.Huawei.GSM.Handover\_attempt\_overview

Handover attempts overview

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
HO_REQ_AMR	ACCUMULATION	INT8	ZCH9005: Attempted Handovers per BSC (Intra-Cell TCHF-to-TCHH Handover)	B1275072048.C1278700456	Sum	hubsvbh, hubtvbh
HO_REQ_BETTER_CELL	ACCUMULATION	INT8	ZCH970F: Attempted Handovers per BSC (Better Cell)	B1275072048.C1278700448	Sum	hubsvbh, hubtvbh
HO_REQ_DL_QLTY	ACCUMULATION	INT8	ZCH970B: Attempted Handovers per BSC (Downlink Signal Quality)	B1275072048.C1278700444	Sum	hubsvbh, hubtvbh
HO_REQ_DL_RXL	ACCUMULATION	INT8	ZCH970D: Attempted Handovers per BSC (Downlink Signal Strength)	B1275072048.C1278700446	Sum	hubsvbh, hubtvbh
HO_REQ_DR	ACCUMULATION	INT8	ZCH9701: Attempted Handovers per BSC (Directed Retry)	B1275072048.C1278700457	Sum	hubsvbh, hubtvbh
HO_REQ_LOAD	ACCUMULATION	INT8	ZCH970G: Attempted Handovers per BSC (Load)	B1275072048.C1278700449	Sum	hubsvbh, hubtvbh
HO_REQ_MS_C_INTERV	ACCUMULATION	INT8	ZCH970I: Attempted Handovers per BSC (MSC	B1275072048.C1278700451	Sum	hubsvbh, hubtvbh

			Intervention)			
HO_REQ_O2 U	ACCUMULA TION	INT8	ZCH971L:Atte mpted Handovers per BSC (Overlaid Subcell to Underlaid Subcell)	B1275072048.C127 8700455	Sum	hubsvbh, hubtvbh
HO_REQ_OM _INTERV	ACCUMULA TION	INT8	ZCH970J:Atte mpted Handovers per BSC (OM Intervention)	B1275072048.C127 8700452	Sum	hubsvbh, hubtvbh
HO_REQ_OT HER	ACCUMULA TION	INT8	ZCH970L:Atte mpted Handovers per BSC (Other Causes)	B1275072048.C127 8700453	Sum	hubsvbh, hubtvbh
HO_REQ_RA PID_LEV_DR OP	ACCUMULA TION	INT8	ZCH970H:Atte mpted Handovers per BSC (Rapid Level Drop)	B1275072048.C127 8700450	Sum	hubsvbh, hubtvbh
HO_REQ_TA	ACCUMULA TION	INT8	ZCH970E:Atte mpted Handovers per BSC (Timing Advance)	B1275072048.C127 8700447	Sum	hubsvbh, hubtvbh
HO_REQ_U2 O	ACCUMULA TION	INT8	ZCH971J:Atte mpted Handovers per BSC (Underlaid Subcell to Overlaid Subcell)	B1275072048.C127 8700454	Sum	hubsvbh, hubtvbh
HO_REQ_UL QLTY	ACCUMULA TION	INT8	ZCH970A:Atte mpted	B1275072048.C127 8700443	Sum	hubsvbh, hubtvbh

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			Handovers per BSC (Uplink Signal Quality)			
HO_REQ_UL_RXL	ACCUMULATION	INT8	ZCH970C:Attempted Handovers per BSC (Uplink Signal Strength)	B1275072048.C1278700445	Sum	hubsvbh, hubtvbh
RQ_HO_NONE_AMR_TCHF_TCHH	ACCUMULATION	INTEGER	ZH9702A:Request Handovers per BSC (NONE AMR) (TCHF-TCHH).Obsolete in V900R011.	B1275072048.C1278700458	Sum	hubsvbh, hubtvbh
RQ_HO_NONE_AMR_TCHH_TCHF	ACCUMULATION	INTEGER	ZH9702B:Request Handovers per BSC (NONE AMR) (TCHH-TCHF).Obsolete in V900R011.	B1275072048.C1278700459	Sum	hubsvbh, hubtvbh

### 7.5.27 BSC.Huawei.GSM.Handover\_fail\_per\_cause

Outgoing Internal and external Inter-cell handovers

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
Ext_IrCell_HOs_Better_Cell	ACCUMULATION	INTEGER	ZH9322F:Failed Outgoing External Inter-Cell Handovers (Better Cell) per BSC	B1275072049.C1278701428	Sum	hubsvbh, hubtvbh
Ext_IrCell_HOs_dl_Qual	ACCUMULATION	INTEGER	ZH9322B:Failed Outgoing External Inter-Cell Handovers (Downlink	B1275072049.C1278701420	Sum	hubsvbh, hubtvbh

			Quality) per BSC			
Ext_IrCell_H Os_dl_stgth	ACCUMULATION	INTEGER	ZH9322D:Failed Outgoing External Inter-Cell Handovers (Downlink Strength) per BSC	B1275072049.C127 8701424	Sum	hubsvbh, hubtvbh
Ext_IrCell_H Os_Load	ACCUMULATION	INTEGER	ZH9322G:Failed Outgoing External Inter-Cell Handovers (Load) per BSC	B1275072049.C127 8701430	Sum	hubsvbh, hubtvbh
Ext_IrCell_H Os_MSC_iven t	ACCUMULATION	INTEGER	ZH9322I:Failed Outgoing External Inter-Cell Handovers (MSC Intervention) per BSC	B1275072049.C127 8701434	Sum	hubsvbh, hubtvbh
Ext_IrCell_H Os_OM_ivent	ACCUMULATION	INTEGER	ZH9322J:Failed Outgoing External Inter-Cell Handovers (OM Intervention) per BSC	B1275072049.C127 8701436	Sum	hubsvbh, hubtvbh
Ext_IrCell_H Os_Other	ACCUMULATION	INTEGER	ZH9322L:Failed Outgoing External Inter-Cell Handovers (Other Causes) per BSC	B1275072049.C127 8701438	Sum	hubsvbh, hubtvbh
Ext_IrCell_H Os_Rapid_lvl _Drop	ACCUMULATION	INTEGER	ZH9322H:Failed Outgoing External Inter-Cell Handovers	B1275072049.C127 8701432	Sum	hubsvbh, hubtvbh

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			(Rapid Level Drop) per BSC			
Ext_IrCell_HOs_TA	ACCUMULATION	INTEGER	ZH9322E:Failed Outgoing External Inter-Cell Handovers (Timing Advance) per BSC	B1275072049.C1278701426	Sum	hubsvbh, hubtvbh
Ext_IrCell_HOs_ul_Qual	ACCUMULATION	INTEGER	ZH9322A:Failed Outgoing External Inter-Cell Handovers (Uplink Quality) per BSC	B1275072049.C1278701418	Sum	hubsvbh, hubtvbh
Ext_IrCell_HOs_ul_stgth	ACCUMULATION	INTEGER	ZH9322C:Failed Outgoing External Inter-Cell Handovers (Uplink Strength) per BSC	B1275072049.C1278701422	Sum	hubsvbh, hubtvbh
FAIL_HO_NONE_AMR_TCHF_TCHH	ACCUMULATION	INTEGER	ZH9045A:Fail Handovers per BSC (NONE AMR)(TCHF-TCHH) .Obsolete in V900R011.	B1275072049.C1278701460	Sum	hubsvbh, hubtvbh
FAIL_HO_NONE_AMR_TCHH_TCHF	ACCUMULATION	INTEGER	ZH9045B:Fail Handovers per BSC (NONE AMR)(TCHH-TCHF) .Obsolete in V900R011.	B1275072049.C1278701461	Sum	hubsvbh, hubtvbh
Int_IrCell_HOs_Better_Cell	ACCUMULATION	INTEGER	ZH9122F:Failed Outgoing Internal Inter-Cell Handovers (Better Cell) per	B1275072049.C1278701427	Sum	hubsvbh, hubtvbh

			BSC			
Int_IrCell_HO s_dl_Qual	ACCUMULA TION	INTEG ER	ZH9122B:Faile d Outgoing Internal Inter- Cell Handovers (Downlink Quality) per BSC	B1275072049.C127 8701419	Sum	hubsvbh, hubtvbh
Int_IrCell_HO s_dl_stgth	ACCUMULA TION	INTEG ER	ZH9122D:Faile d Outgoing Internal Inter- Cell Handovers (Downlink Strength) per BSC	B1275072049.C127 8701423	Sum	hubsvbh, hubtvbh
Int_IrCell_HO s_Load	ACCUMULA TION	INTEG ER	ZH9122G:Faile d Outgoing Internal Inter- Cell Handovers (Load) per BSC	B1275072049.C127 8701429	Sum	hubsvbh, hubtvbh
Int_IrCell_HO s_MSC_ivent	ACCUMULA TION	INTEG ER	ZH9122I:Failed Outgoing Internal Inter- Cell Handovers (MSC Intervention) per BSC	B1275072049.C127 8701433	Sum	hubsvbh, hubtvbh
Int_IrCell_HO s_OM_ivent	ACCUMULA TION	INTEG ER	ZH9122J:Failed Outgoing Internal Inter- Cell Handovers (OM Intervention) per BSC	B1275072049.C127 8701435	Sum	hubsvbh, hubtvbh
Int_IrCell_HO s_Other	ACCUMULA TION	INTEG ER	ZH9122L:Faile d Outgoing Internal Inter- Cell Handovers	B1275072049.C127 8701437	Sum	hubsvbh, hubtvbh

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			(Other Causes) per BSC			
Int_IrCell_HO s_Rapid_lvl_ Drop	ACCUMULA TION	INTEG ER	ZH9122H:Faile d Outgoing Internal Inter- Cell Handovers (Rapid Level Drop) per BSC	B1275072049.C127 8701431	Sum	hubsvbh, hubtvbh
Int_IrCell_HO s_TA	ACCUMULA TION	INTEG ER	ZH9122E:Faile d Outgoing Internal Inter- Cell Handovers (Timing Advance) per BSC	B1275072049.C127 8701425	Sum	hubsvbh, hubtvbh
Int_IrCell_HO s_ul_Qual	ACCUMULA TION	INTEG ER	ZH9122A:Faile d Outgoing Internal Inter- Cell Handovers (Uplink Quality) per BSC	B1275072049.C127 8701417	Sum	hubsvbh, hubtvbh
Int_IrCell_HO s_ul_stgth	ACCUMULA TION	INTEG ER	ZH9122C:Faile d Outgoing Internal Inter- Cell Handovers (Uplink Strength) per BSC	B1275072049.C127 8701421	Sum	hubsvbh, hubtvbh
Intra_HOs_A MR_TCHF_T CHH	ACCUMULA TION	INTEG ER	ZH9025A:Faile d Internal Intra- Cell Handovers (AMR) (TCHF- TCHH)	B1275072049.C127 8701443	Sum	hubsvbh, hubtvbh
Intra_HOs_A MR_TCHH_T CHF	ACCUMULA TION	INTEG ER	ZH9025B:Faile d Internal Intra- Cell Handovers (AMR) (TCHH-TCHF)	B1275072049.C127 8701444	Sum	hubsvbh, hubtvbh
IntraC_HOs_ No_CHNL_av	ACCUMULA TION	INTEG ER	ZH9021A:Faile d Internal Intra-	B1275072049.C127 8701441	Sum	hubsvbh, hubtvbh

_olaid_olaid			Cell Handovers (No Channel Available) (Overlaid to Underlaid) per BSC			
IntraC_HOs_No_CHNL_av_olaid_olaid	ACCUMULATION	INTEGER	ZH9022A:Failed Internal Intra-Cell Handovers (No Channel Available) (Underlaid to Overlaid) per BSC	B1275072049.C1278701439	Sum	hubsvbh, hubtvbh
IntraC_HOs_Other_olaid_olaid	ACCUMULATION	INTEGER	ZH9021M:Failed Internal Intra-Cell Handovers (Other Causes) (Overlaid to Underlaid) per BSC	B1275072049.C1278701442	Sum	hubsvbh, hubtvbh
IntraC_HOs_Other_olaid_olaid	ACCUMULATION	INTEGER	ZH9022M:Failed Internal Intra-Cell Handovers (Other Causes) (Underlaid to Overlaid) per BSC	B1275072049.C1278701440	Sum	hubsvbh, hubtvbh
TOT_FAIL_OUT_EXT_INT_CELL_HO	ACCUMULATION	INTEGER	Total Failed Outgoing External Inter-Cell Handovers per BSC	B1275072049.C1278701418 + C1278701420 + C1278701422 + C1278701424 + C1278701426 + C1278701428 + C1278701430 + C1278701432 + C1278701434 + C1278701436 +	Sum	hubsvbh, hubtvbh

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				C1278701438		
TOT_FAIL_OUT_INT_INT_CELL_HO	ACCUMULATION	INTEGER	Total Failed Outgoing Internal Inter-Cell Handovers per BSC	B1275072049.C1278701417 + C1278701419 + C1278701421 + C1278701423 + C1278701425 + C1278701427 + C1278701429 + C1278701431 + C1278701433 + C1278701435 + C1278701437	Sum	hubsvbh, hubtvbh

### 7.5.28 BSC.Huawei.GSM.Handover\_failure\_incom\_ext

Incomin InterRAT handover failures

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CHNACTIVNACK BTS_Inc_ext_IrC_HO_proc_SD	ACCUMULATION	INTEGER	ZR9350B:CHAN ACTIVNACK Messages Sent by BTS in Incoming External Inter-Cell Handover Procedure (SDCCH) per BSC	B1275072047.C1278699485	Sum	hubsvbh, hubtvbh
CHNACTIVNACK BTS_Inc_ext_IrC_HOprocTCHF	ACCUMULATION	INTEGER	ZR9357B:CHAN ACTIVNACK Messages Sent by BTS in Incoming External Inter-Cell Handover Procedure (TCHF) per	B1275072047.C1278699486	Sum	hubsvbh, hubtvbh

			BSC			
CHNACTIVNACK BTS_Inc_ext_IrC_ HOprocTCHH	ACCUMULA TION	INTEG ER	ZR9358B:CH AN ACTIV NACK Messages Sent by BTS in Incoming External Inter-Cell Handover Procedure (TCHH) per BSC	B1275072047.C1 278699487	Sum	hubsvbh, hubtvbh
CHNL_Activ_TOs _Inc_ext_IrC_HO_ proc_SD	ACCUMULA TION	INTEG ER	ZR9350C:Ch annel Activation Timeouts in Incoming External Inter-Cell Handover Procedure (SDCCH) per BSC	B1275072047.C1 278699488	Sum	hubsvbh, hubtvbh
CHNL_Activ_TOs _Inc_ext_IrC_HOp roc_TCHF	ACCUMULA TION	INTEG ER	ZR9357C:Ch annel Activation Timeouts in Incoming External Inter-Cell Handover Procedure (TCHF) per BSC	B1275072047.C1 278699489	Sum	hubsvbh, hubtvbh
CHNL_Activ_TOs _Inc_ext_IrC_HOp roc_TCHH	ACCUMULA TION	INTEG ER	ZR9358C:Ch annel Activation Timeouts in	B1275072047.C1 278699490	Sum	hubsvbh, hubtvbh

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			Incoming External Inter-Cell Handover Procedure (TCHH) per BSC			
INTERBSC_INCELL_CONTENTS_INVALID	ACCUMULATION	INT8	ZH942I:Failed External Incoming Cell Handovers per BSC (Illegal Message)	B1275072047.C1278699499	Sum	hubsvbh, hubtvbh

### 7.5.29 BSC.Huawei.GSM.Handover\_failure\_internal

Internal Intra cell handovers

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
Intra_HOs_reconOLD_Preemptive_rls	ACCUMULATION	INTEGER	ZH902De:Failed Internal Intra-Cell Handovers (Reconnection to Old Channels) (Preemptive Release)	B1275072047.C1278699421	Sum	hubsvbh, hubtvbh
IntraC_HOreconOLD_abnml_rls_CHNL_unacc	ACCUMULATION	INTEGER	ZH902Db:Failed Internal Intra-Cell Handovers (Reconnection to Old Channels) (Abnormal Release, Channel Unacceptable) per BSC	B1275072047.C1278699418	Sum	hubsvbh, hubtvbh
IntraC_HOreconOLD_abnml_rl	ACCUMULATION	INTEGER	ZH902Dc:Failed Internal Intra-	B1275072047.C1278699419	Sum	hubsvbh, hubtvbh

s_Timer_exp			Cell Handovers (Reconnection to Old Channels) (Abnormal Release, Timer Expired) per BSC			
IntraC_HOrecold_Conditional_IE_Error	ACCUMULATION	INTEGER	ZH902Dn:Failed Internal Intra-Cell Handovers (Reconnection to Old Channels) (Conditional IE Error) per BSC	B1275072047.C12 78699430	Sum	hubsvbh, hubtvbh
IntraC_HOrecold_msg_Type_nnextist	ACCUMULATION	INTEGER	ZH902Dl:Failed Internal Intra-Cell Handovers (Reconnection to Old Channels) (Message Type Non-existent or Not Implemented) per BSC	B1275072047.C12 78699428	Sum	hubsvbh, hubtvbh
IntraC_HOrecold_msgnotComp_proto_st	ACCUMULATION	INTEGER	ZH902Dm:Failed Internal Intra-Cell Handovers (Reconnection to Old Channels) (Message Type Not Compatible with Protocol State) per BSC	B1275072047.C12 78699429	Sum	hubsvbh, hubtvbh
IntraC_HOs_rec	ACCUMULATION	INTEGER	ZH902Da:Faile	B1275072047.C12	Sum	hubsvbh,

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onOLD_abnml_ri ls_unspec	TION	ER	d Internal Intra-Cell Handovers (Reconnection to Old Channels) (Abnormal Release, Unspecified) per BSC	78699417		hubtvbh
IntraC_HOs_re conOLD_abnml_ri snotactv	ACCUMULA TION	INTEG ER	ZH902Dd:Faile d Internal Intra-Cell Handovers (Reconnection to Old Channels) (Abnormal Release, No Activity on the Radio Path) per BSC	B1275072047.C12 78699420	Sum	hubsvbh, hubtvbh
IntraC_HOs_re conOLD_Call_A lready_clr	ACCUMULA TION	INTEG ER	ZH902Di:Faile d Internal Intra-Cell Handovers (Reconnection to Old Channels) (Call Already Cleared) per BSC	B1275072047.C12 78699425	Sum	hubsvbh, hubtvbh
IntraC_HOs_re conOLD_CHNL _Mode_Unav	ACCUMULA TION	INTEG ER	ZH902Dg:Faile d Internal Intra-Cell Handovers (Reconnection to Old Channels) (Channel Mode Unavailable) per BSC	B1275072047.C12 78699423	Sum	hubsvbh, hubtvbh
IntraC_HOs_re conOLD_HO_fai l_TA_o_Range	ACCUMULA TION	INTEG ER	ZH902Df:Faile d Internal Intra-Cell Handovers (Reconnection to Old	B1275072047.C12 78699422	Sum	hubsvbh, hubtvbh

			Channels) (Handover Failed, Timing Advance out of Range) per BSC			
IntraC_HOs_reconOLD_Invalid_mand_info	ACCUMULATION	INTEGER	ZH902Dk:Failed Internal Intra-Cell Handovers (Reconnection to Old Channels) (Invalid Mandatory Information) per BSC	B1275072047.C12 78699427	Sum	hubsvbh, hubtvbh
IntraC_HOs_reconOLD_No_C_Alloc_av	ACCUMULATION	INTEGER	ZH902Do:Failed Internal Intra-Cell Handovers (Reconnection to Old Channels) (No Cell Allocation Available) per BSC	B1275072047.C12 78699431	Sum	hubsvbh, hubtvbh
IntraC_HOs_reconOLD_proto_Error_unspec	ACCUMULATION	INTEGER	ZH902Dp:Failed Internal Intra-Cell Handovers (Reconnection to Old Channels) (Protocol Error Unspecified) per BSC	B1275072047.C12 78699432	Sum	hubsvbh, hubtvbh
IntraC_HOs_reconOLD_sem_in_corr_msg	ACCUMULATION	INTEGER	ZH902Dj:Failed Internal Intra-Cell Handovers (Reconnection to Old	B1275072047.C12 78699426	Sum	hubsvbh, hubtvbh

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			Channels) (Semantically Incorrect Message) per BSC			
IntraCell_HOs_ reconn_Old_fre q_Unav	ACCUMULA TION	INTEG ER	ZH902Dh:Faile d Internal Intra- Cell Handovers (Reconnection to Old Channels) (Frequency Unavailable) per BSC	B1275072047.C12 78699424	Sum	hubsvbh, hubtvbh
IntraCell_HOs_ reconn_Old_Ot her	ACCUMULA TION	INTEG ER	ZH902Dq:Faile d Internal Intra- Cell Handovers (Reconnection to Old Channels) (Other Causes) per BSC	B1275072047.C12 78699433	Sum	hubsvbh, hubtvbh

### 7.5.30 BSC.Huawei.GSM.Handover\_failure\_outgoing\_ext

Outgoing External inter-cell Handovers

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
Ext_IrC_HOrec onold_abnml_rl s_CHNL_unac	ACCUMULA TION	INTEG ER	ZH932Db:Faile d Outgoing External Inter- Cell Handovers (Reconnection to Old Channels) (Abnormal Release, Channel Unacceptable) per BSC	B1275072047.C12 78699452	Sum	
Ext_IrC_HOrec	ACCUMULA	INTEG	ZH932Dc:Faile	B1275072047.C12	Sum	

onOLD_abnml_rls_Timer_exp	TION	ER	d Outgoing External Inter-Cell Handovers (Reconnection to Old Channels) (Abnormal Release, Timer Expired) per BSC	78699453		
Ext_IrC_HOrec onold_cond_IE_err	ACCUMULATION	INTEGER	ZH932Dn:Failed Outgoing External Inter-Cell Handovers (Reconnection to Old Channels) (Conditional IE Error) per BSC	B1275072047.C12 78699464	Sum	
Ext_IrC_HOrec onOLD_HO_fail_TA_o_Range	ACCUMULATION	INTEGER	ZH932Df:Failed Outgoing External Inter-Cell Handovers (Reconnection to Old Channels) (Handover Failed, Timing Advance out of Range) per BSC	B1275072047.C12 78699456	Sum	
Ext_IrC_HOrec onold_msg_not Comproto_st	ACCUMULATION	INTEGER	ZH932Dm:Failed Outgoing External Inter-Cell Handovers (Reconnection to Old Channels) (Message Type Not Compatible	B1275072047.C12 78699463	Sum	

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			with Protocol State) per BSC			
Ext_IrC_HOrec onold_msg_Type _nnexist	ACCUMULATION	INTEGER	ZH932Dl:Failed Outgoing External Inter- Cell Handovers (Reconnection to Old Channels) (Message Type Non-existent or Not Implemented) per BSC	B1275072047.C12 78699462	Sum	
Ext_IrC_HOrec onOLD_proto_ Error_unspec	ACCUMULATION	INTEGER	ZH932Dp:Failed Outgoing External Inter- Cell Handovers (Reconnection to Old Channels) (Protocol Error Unspecified) per BSC	B1275072047.C12 78699466	Sum	
Ext_IrC_HOs_r econOLD_abnm l_rls_unspec	ACCUMULATION	INTEGER	ZH932Da:Failed Outgoing External Inter- Cell Handovers (Reconnection to Old Channels) (Abnormal Release, Unspecified) per BSC	B1275072047.C12 78699451	Sum	
Ext_IrC_HOs_r econOLD_abnm l_rlsnotactv	ACCUMULATION	INTEGER	ZH932Dd:Failed Outgoing External Inter- Cell Handovers (Reconnection to Old Channels) (Abnormal	B1275072047.C12 78699454	Sum	

			Release, No Activity on the Radio Path) per BSC			
Ext_IrC_HOs_reconOLD_Call_Already_clr	ACCUMULATION	INTEGER	ZH932Di:Failed Outgoing External Inter-Cell Handovers (Reconnection to Old Channels) (Call Already Cleared) per BSC	B1275072047.C1278699459	Sum	
Ext_IrC_HOs_reconOLD_CHNL_Mode_Unav	ACCUMULATION	INTEGER	ZH932Dg:Failed Outgoing External Inter-Cell Handovers (Reconnection to Old Channels) (Channel Mode Unavailable) per BSC	B1275072047.C1278699457	Sum	
Ext_IrC_HOs_reconOLD_Invalid_mand_info	ACCUMULATION	INTEGER	ZH932Dk:Failed Outgoing External Inter-Cell Handovers (Reconnection to Old Channels) (Invalid Mandatory Information) per BSC	B1275072047.C1278699461	Sum	
Ext_IrC_HOs_reconOLD_No_C_Alloc_av	ACCUMULATION	INTEGER	ZH932Do:Failed Outgoing External Inter-Cell Handovers	B1275072047.C1278699465	Sum	

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			(Reconnection to Old Channels) (No Cell Allocation Available) per BSC			
Ext_IrC_HOs_reconOLD_Preemptive_rls	ACCUMULATION	INTEGER	ZH932De:Failed Outgoing External Inter-Cell Handovers (Reconnection to Old Channels) (Preemptive Release) per BSC	B1275072047.C12 78699455	Sum	
Ext_IrC_HOs_reconOLD_sem_incorr_msg	ACCUMULATION	INTEGER	ZH932Dj:Failed Outgoing External Inter-Cell Handovers (Reconnection to Old Channels) (Semantically Incorrect Message) per BSC	B1275072047.C12 78699460	Sum	
Ext_IrCell_HOs_reconn_Old_Other	ACCUMULATION	INTEGER	ZH932Dq:Failed Outgoing External Inter-Cell Handovers (Reconnection to Old Channels) (Other Causes) per BSC	B1275072047.C12 78699467	Sum	
Ext_IrCell_HOs_reconOLD_freq_Unav	ACCUMULATION	INTEGER	ZH932Dh:Failed Outgoing External Inter-Cell Handovers (Reconnection to Old Channels)	B1275072047.C12 78699458	Sum	

			(Frequency Unavailable) per BSC			
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**7.5.31 BSC.Huawei.GSM.Handover\_failure\_outgoing\_int**

Outgoing internal intercell handovers

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
Int_IrC_HOreconOLD_abnml_rls_Timer_exp	ACCUMULATION	INTEGER	ZH912Dc:Failed Outgoing Internal Inter-Cell Handovers (Reconnection to Old Channels) (Abnormal Release, Timer Expired) per BSC	B1275072047.C1278699436	Sum	hubsvbh, hubtvbh
Int_IrC_HOreconold_abnmlrls_CHNL_unacc	ACCUMULATION	INTEGER	ZH912Db:Failed Outgoing Internal Inter-Cell Handovers (Reconnection to Old Channels) (Abnormal Release, Channel Unacceptable) per BSC	B1275072047.C1278699435	Sum	hubsvbh, hubtvbh
Int_IrC_HOreconold_cond_IE_err	ACCUMULATION	INTEGER	ZH912Dn:Failed Outgoing Internal Inter-Cell Handovers (Reconnection	B1275072047.C1278699447	Sum	hubsvbh, hubtvbh

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			to Old Channels) (Conditional IE Error) per BSC			
Int_IrC_HOreconOLD_HO_fail_TA_o_Range	ACCUMULATION	INTEGER	ZH912Df:Failed Outgoing Internal Inter-Cell Handovers (Reconnection to Old Channels) (Handover Failed, Timing Advance out of Range) per BSC	B1275072047.C1278699439	Sum	hubsvbh, hubtvbh
Int_IrC_HOreconold_msg_Type_nnextist	ACCUMULATION	INTEGER	ZH912Dl:Failed Outgoing Internal Inter-Cell Handovers (Reconnection to Old Channels) (Message Type Non-existent or Not Implemented) per BSC	B1275072047.C1278699445	Sum	hubsvbh, hubtvbh
Int_IrC_HOreconold_msgnotComp_proto_st	ACCUMULATION	INTEGER	ZH912Dm:Failed Outgoing Internal Inter-Cell Handovers (Reconnection to Old Channels) (Message Type Not Compatible with Protocol State) per BSC	B1275072047.C1278699446	Sum	hubsvbh, hubtvbh
Int_IrC_HOreconOLD_proto_Error_unspec	ACCUMULATION	INTEGER	ZH912Dp:Failed Outgoing Internal Inter-Cell Handovers	B1275072047.C1278699449	Sum	hubsvbh, hubtvbh

			(Reconnection to Old Channels) (Protocol Error Unspecified) per BSC			
Int_IrC_HOs_reconOLD_abnml_rls_unspec	ACCUMULATION	INTEGER	ZH912Da:Failed Outgoing Internal Inter-Cell Handovers (Reconnection to Old Channels) (Abnormal Release, Unspecified) per BSC	B1275072047.C12 78699434	Sum	hubsvbh, hubtvbh
Int_IrC_HOs_reconOLD_abnml_rlsnotactv	ACCUMULATION	INTEGER	ZH912Dd:Failed Outgoing Internal Inter-Cell Handovers (Reconnection to Old Channels) (Abnormal Release, No Activity on the Radio Path) per BSC	B1275072047.C12 78699437	Sum	hubsvbh, hubtvbh
Int_IrC_HOs_reconOLD_Call_Already_clr	ACCUMULATION	INTEGER	ZH912Di:Failed Outgoing Internal Inter-Cell Handovers (Reconnection to Old Channels) (Call Already Cleared) per BSC	B1275072047.C12 78699442	Sum	hubsvbh, hubtvbh

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Int_IrC_HOs_reconOLD_CHNL_Mode_Unav	ACCUMULATION	INTEGER	ZH912Dg:Failed Outgoing Internal Inter-Cell Handovers (Reconnection to Old Channels) (Channel Mode Unavailable) per BSC	B1275072047.C1278699440	Sum	hubsvbh, hubtvbh
Int_IrC_HOs_reconOLD_Invalid_mand_info	ACCUMULATION	INTEGER	ZH912Dk:Failed Outgoing Internal Inter-Cell Handovers (Reconnection to Old Channels) (Invalid Mandatory Information) per BSC	B1275072047.C1278699444	Sum	hubsvbh, hubtvbh
Int_IrC_HOs_reconOLD_No_C_Alloc_av	ACCUMULATION	INTEGER	ZH912Do:Failed Outgoing Internal Inter-Cell Handovers (Reconnection to Old Channels) (No Cell Allocation Available) per BSC	B1275072047.C1278699448	Sum	hubsvbh, hubtvbh
Int_IrC_HOs_reconOLD_Preemptive_rls	ACCUMULATION	INTEGER	ZH912De:Failed Outgoing Internal Inter-Cell Handovers (Reconnection to Old Channels) (Preemptive Release) per BSC	B1275072047.C1278699438	Sum	hubsvbh, hubtvbh
Int_IrC_HOs_reconOLD_sem_i	ACCUMULATION	INTEGER	ZH912Dj:Failed Outgoing	B1275072047.C1278699443	Sum	hubsvbh, hubtvbh

ncorr_msg			Internal Inter-Cell Handovers (Reconnection to Old Channels) (Semantically Incorrect Message) per BSC			
Int_IrCell_HOs_reconn_Old_Other	ACCUMULATION	INTEGER	ZH912Dq:Failed Outgoing Internal Inter-Cell Handovers (Reconnection to Old Channels) (Other Causes) per BSC	B1275072047.C1278699450	Sum	hubsvbh, hubtvbh
Int_IrCell_HOs_reconOLD_freq_Unav	ACCUMULATION	INTEGER	ZH912Dh:Failed Outgoing Internal Inter-Cell Handovers (Reconnection to Old Channels) (Frequency Unavailable) per BSC	B1275072047.C1278699441	Sum	hubsvbh, hubtvbh

### 7.5.32 BSC.Huawei.GSM.Handover\_failure\_outgoing\_irat

Outgoing InterRAT handover failures, reconnections to old channels

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
IrC_HOreconold_abnmlrls_CHNL_unac	ACCUMULATION	INTEGER	ZH952Db:Failed Outgoing Inter-RAT	B1275072047.C1278699469	Sum	hubsvbh, hubtvbh

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			Inter-Cell Handovers (Reconnection to Old Channels) (Abnormal Release, Channel Unacceptable) per BSC			
IrC_HOreconold_abnmlrls_Timer_exp	ACCUMULATION	INTEGER	ZH952Dc:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Abnormal Release, Timer Expired) per BSC	B1275072047.C1 278699470	Sum	hubsvbh, hubtvbh
IrC_HOreconold_abnmlrlsCHNL_unacc_TDD	ACCUMULATION	INTEGER	ZH953Db:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Abnormal Release, Channel Unacceptable) (TDD) per BSC	B1275072047.C1 278699509	Sum	hubsvbh, hubtvbh
IrC_HOreconold_abnmlrlsnotactvTDD	ACCUMULATION	INTEGER	ZH953Dd:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels)	B1275072047.C1 278699511	Sum	hubsvbh, hubtvbh

			(Abnormal Release, No Activity on the Radio Path) (TDD)per BSC			
IrC_HOreconold_abnmlrlsTimer_exp_TDD	ACCUMULATION	INTEGER	ZH953Dc:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Abnormal Release, Timer Expired) (TDD)per BSC	B1275072047.C1 278699510	Sum	hubsvbh, hubtvbh
IrC_HOreconold_abnmlrlsunspec_TDD	ACCUMULATION	INTEGER	ZH953Da:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Abnormal Release, Unspecified) (TDD)per BSC	B1275072047.C1 278699508	Sum	hubsvbh, hubtvbh
IrC_HOreconold_Call_Alrdy_clrTDD	ACCUMULATION	INTEGER	ZH953Di:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Call Already Cleared)(TDD) per BSC	B1275072047.C1 278699516	Sum	hubsvbh, hubtvbh

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IrC_HOreconOLD_CHNL_Mode_Unav_TDD	ACCUMULATION	INTEGER	ZH953Dg:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Channel Mode Unavailable) (TDD)per BSC	B1275072047.C1 278699514	Sum	hubsvbh, hubtvbh
IrC_HOreconold_Cond_IE_err_TDD	ACCUMULATION	INTEGER	ZH953Dn:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Conditional IE Error) (TDD) per BSC	B1275072047.C1 278699521	Sum	hubsvbh, hubtvbh
IrC_HOreconold_cond_IE_err	ACCUMULATION	INTEGER	ZH952Dn:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Conditional IE Error) per BSC	B1275072047.C1 278699481	Sum	hubsvbh, hubtvbh
IrC_HOreconOLD_HO_fail_TA_o_Range	ACCUMULATION	INTEGER	ZH952Df:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Handover	B1275072047.C1 278699473	Sum	hubsvbh, hubtvbh

			Failed, Timing Advance out of Range) per BSC			
IrC_HOreconold_HOfailTA_o_RangeTDD	ACCUMULATION	INTEGER	ZH953Df:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Handover Failed, Timing Advance out of Range) (TDD)per BSC	B1275072047.C1 278699513	Sum	hubsvbh, hubtvbh
IrC_HOreconOLD_Invalid_mand_info	ACCUMULATION	INTEGER	ZH952Dk:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Invalid Mandatory Information) per BSC	B1275072047.C1 278699478	Sum	hubsvbh, hubtvbh
IrC_HOreconold_Invalid_mandinfoTDD	ACCUMULATION	INTEGER	ZH953Dk:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Invalid Mandatory Information)	B1275072047.C1 278699518	Sum	hubsvbh, hubtvbh

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			(TDD) per BSC			
IrC_HOreconold_msg_Type_nnext	ACCUMULATION	INTEGER	ZH952DI:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Message Type Non-existent or Not Implemented) per BSC	B1275072047.C1 278699479	Sum	hubsvbh, hubtvbh
IrC_HOreconold_msg_Type_notcomp	ACCUMULATION	INTEGER	ZH952Dm:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Message Type Not Compatible with Protocol State) per BSC	B1275072047.C1 278699480	Sum	hubsvbh, hubtvbh
IrC_HOreconold_msg_notsupprotost TDD	ACCUMULATION	INTEGER	ZH953Dm:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Message Type Not Compatible with Protocol State) (TDD)per BSC	B1275072047.C1 278699520	Sum	hubsvbh, hubtvbh
IrC_HOreconold_	ACCUMULATION	INTEGER	ZH953DI:Failed	B1275072047.C1	Sum	hubsvbh,

msgtype_nnextTDD	TION	ER	d Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Message Type Non-existent or Not Implemented) (TDD)per BSC	278699519		hubtvbh
IrC_HOreconOLD_No_C_Alloc_av_TDD	ACCUMULATION	INTEGER	ZH953Do:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (No Cell Allocation Available) (TDD) per BSC	B1275072047.C1 278699522	Sum	hubsvbh, hubtvbh
IrC_HOreconOLD_Preemptive_rls_TDD	ACCUMULATION	INTEGER	ZH953De:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Preemptive Release) (TDD)per BSC	B1275072047.C1 278699512	Sum	hubsvbh, hubtvbh
IrC_HOreconOLD_proto_Error_unspec	ACCUMULATION	INTEGER	ZH952Dp:Failed Outgoing Inter-RAT Inter-Cell Handovers	B1275072047.C1 278699483	Sum	hubsvbh, hubtvbh

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			(Reconnection to Old Channels) (Protocol Error Unspecified) per BSC			
IrC_HOreconold_protoerr_unspec_TDD	ACCUMULATION	INTEGER	ZH953Dp:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Protocol Error Unspecified) (TDD)per BSC	B1275072047.C1 278699523	Sum	hubsvbh, hubtvbh
IrC_HOreconOLD_sem_incorr_msg_TDD	ACCUMULATION	INTEGER	ZH953Dj:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Semantically Incorrect Message) (TDD) per BSC	B1275072047.C1 278699517	Sum	hubsvbh, hubtvbh
IrC_HOs_reconOLD_abnml_rls_unspec	ACCUMULATION	INTEGER	ZH952Da:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Abnormal Release, Unspecified) per BSC	B1275072047.C1 278699468	Sum	hubsvbh, hubtvbh
IrC_HOs_reconO	ACCUMULATION	INTEGER	ZH952Dd:Fail	B1275072047.C1	Sum	hubsvbh,

LD_abnml_rlsnotactv	TION	ER	ed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Abnormal Release, No Activity on the Radio Path) per BSC	278699471		hubtvbh
IrC_HOs_reconO LD_Call_Already_clr	ACCUMULATION	INTEGER	ZH952Di:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Call Already Cleared) per BSC	B1275072047.C1 278699476	Sum	hubsvbh, hubtvbh
IrC_HOs_reconO LD_CHNL_Mode_Unav	ACCUMULATION	INTEGER	ZH952Dg:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Channel Mode Unavailable) per BSC	B1275072047.C1 278699474	Sum	hubsvbh, hubtvbh
IrC_HOs_reconO LD_freq_Unav_TDD	ACCUMULATION	INTEGER	ZH953Dh:Failed Outgoing Inter-RAT Inter-Cell Handovers	B1275072047.C1 278699515	Sum	hubsvbh, hubtvbh

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			(Reconnection to Old Channels) (Frequency Unavailable) (TDD)per BSC			
IrC_HOs_reconOLD_No_C_Alloc_av	ACCUMULATION	INTEGER	ZH952Do:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (No Cell Allocation Available) per BSC	B1275072047.C1 278699482	Sum	hubsvbh, hubtvbh
IrC_HOs_reconOLD_Preemptive_rls	ACCUMULATION	INTEGER	ZH952De:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Preemptive Release) per BSC	B1275072047.C1 278699472	Sum	hubsvbh, hubtvbh
IrC_HOs_reconOLD_sem_incorr_msg	ACCUMULATION	INTEGER	ZH952Dj:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Semantically Incorrect Message) per BSC	B1275072047.C1 278699477	Sum	hubsvbh, hubtvbh
IrCell_HOs_recon_n_Old_Other	ACCUMULATION	INTEGER	ZH952Dq:Failed Outgoing Inter-RAT	B1275072047.C1 278699484	Sum	hubsvbh, hubtvbh

			Inter-Cell Handovers (Reconnection to Old Channels) (Other Causes) per BSC			
IrCell_HOs_recon OLD_freq_Unav	ACCUMULATION	INTEGER	ZH952Dh:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Frequency Unavailable) per BSC	B1275072047.C1 278699475	Sum	hubsvbh, hubtvbh
IrCell_HOs_recon OLD_Other_TDD	ACCUMULATION	INTEGER	ZH953Dq:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Other Causes) (TDD) per BSC	B1275072047.C1 278699524	Sum	hubsvbh, hubtvbh
IrCell_HOs_T8_Exp piry_TDD	ACCUMULATION	INTEGER	ZH954A:Failed Outgoing Inter-RAT Inter-Cell Handovers (T8 Expiry)(TDD) per BSC	B1275072047.C1 278699525	Sum	hubsvbh, hubtvbh

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### 7.5.33 BSC.Huawei.GSM.Handover\_failure\_overview

Handover failures overview

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
INTERBSC_INCELL_APPLY_TRSL_FAIL	ACCUMULATION	INT8	ZH942B:Failed External Incoming Cell Handovers per BSC (Equipment Failure)	B1275072047.C1278699503	Sum	hubsvbh, hubtvbh
INTERBSC_INCELL_CIC_AVAIL	ACCUMULATION	INT8	ZH942F:Failed External Incoming Cell Handovers per BSC (Territorial Resource Already Allocated)	B1275072047.C1278699502	Sum	hubsvbh, hubtvbh
INTERBSC_INCELL_CONG	ACCUMULATION	INT8	ZCH942A:Failed External Incoming Cell Handovers per BSC (Channel Unavailable)	B1275072047.C1278699500	Sum	hubsvbh, hubtvbh
INTERBSC_INCELL_HO_CH_ACT_EXP	ACCUMULATION	INT8	ZCR9350C:Channel Activation Timeouts in External Incoming Cell Handover Procedure per BSC	B1275072047.C1278699507	Sum	hubsvbh, hubtvbh
INTERBSC_INCELL_HO_CH_ACT_NACK	ACCUMULATION	INT8	ZCR9350B:CHAN ACT NACK Messages Sent by BTS in External Incoming Cell Handover	B1275072047.C1278699506	Sum	hubsvbh, hubtvbh

			Procedure per BSC			
INTERBSC_IN CELL_MSC_C LEAR_CMD	ACCUMULA TION	INT8	ZH942H:Failed External Incoming Cell Handovers per BSC (Other Causes)	B1275072047.C12 78699505	Sum	hubsvbh, hubtvbh
INTERBSC_IN CELL_NO_CIC	ACCUMULA TION	INT8	ZH942E:Failed External Incoming Cell Handovers per BSC (Requested Territorial Resource Unavailable)	B1275072047.C12 78699501	Sum	hubsvbh, hubtvbh
INTERBSC_IN CELL_TIEMER _OUT	ACCUMULA TION	INT8	ZCH9420C:Fail ed External Incoming Cell Handovers per BSC (Timer Expired)	B1275072047.C12 78699504	Sum	hubsvbh, hubtvbh
INTERBSC_OU TCELL_RECO NN_FAIL	ACCUMULA TION	INT8	ZCH932C:Faile d Reconnections to Old Channels upon External Outgoing Cell Handover Failure per BSC	B1275072047.C12 78699495	Sum	hubsvbh, hubtvbh
INTERBSC_OU TCELL_RECO NN_SUCC	ACCUMULA TION	INT8	ZCH932D:Succe ssful Reconnections to Old Channels upon External Outgoing Cell Handover Failure per BSC	B1275072047.C12 78699496	Sum	hubsvbh, hubtvbh
INTERRAN_O	ACCUMULA	INT8	ZH954C:Succes	B1275072047.C12	Sum	hubsvbh,

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UTCELL_REC ONN_SUCC_T DD	TION		sfu Reconnections to Old Channels upon Inter-RAT Outgoing Cell Handover Failure per BSC(TDD)	78699527		hubtvbh
INTERRAN_O UTCELL_REC ONN_SUCC	ACCUMULA TION	INT8	ZCH952D:Succe ssful Reconnections to Old Channels upon Inter-RAT Outgoing Cell Handover Failure per BSC	B1275072047.C12 78699498	Sum	hubsvbh, hubtvbh
INTERRAN_O UTCELL_T8_E XP_TDD	ACCUMULA TION	INT8	ZH954B:Succe ssful Reconnections to Old Channels upon Inter-RAT Handover Failure per BSC (TDD)	B1275072047.C12 78699526	Sum	hubsvbh, hubtvbh
INTERRAN_O UTCELL_T8_E XP	ACCUMULA TION	INT8	ZH952C:Succe ssful Reconnections to Old Channels upon Inter-RAT Handover Failure per BSC	B1275072047.C12 78699497	Sum	hubsvbh, hubtvbh
INTRABSC_O UTCELL_REC ONN_FAIL	ACCUMULA TION	INT8	ZCH912C:Faile d Reconnections to Old Channels upon Internal Outgoing Cell Handover Failure per BSC	B1275072047.C12 78699493	Sum	hubsvbh, hubtvbh
INTRABSC_O UTCELL_REC ONN_SUCC	ACCUMULA TION	INT8	ZCH912D:Succe ssful Reconnections to Old Channels upon Internal	B1275072047.C12 78699494	Sum	hubsvbh, hubtvbh

			Outgoing Cell Handover Failure per BSC			
INTRACELL_RECONN_FAIL	ACCUMULATION	INT8	ZCH902C:Failed Reconnections to Old Channels upon Intra-Cell Handover Failure per BSC	B1275072047.C1278699491	Sum	hubsvbh, hubtvbh
INTRACELL_RECONN_SUCC	ACCUMULATION	INT8	ZCH902D:Successful Reconnections to Old Channels upon Intra-Cell Handover Failure per BSC	B1275072047.C1278699492	Sum	hubsvbh, hubtvbh

### 7.5.34 BSC.Huawei.GSM.Handover\_kpi\_incoming\_ext

Incoming external handovers

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
Fail_Inc_ext_IrC_HOs_CIC_Allocated	ACCUMULATION	INTEGER	ZK3185:Failed Incoming External Inter-Cell Handovers (CIC Allocated) per BSC	B1275072051.C1278703561	Sum	hubsvbh, hubtvbh
Fail_Inc_ext_IrC_HOs_clr_cmd_SentMSC	ACCUMULATION	INTEGER	ZK3187:Failed Incoming External Inter-Cell Handovers (Clear Commands Sent By MSC) per BSC	B1275072051.C1278703563	Sum	hubsvbh, hubtvbh

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Fail_Inc_ext_Ir C_HOs_SD_18 00_1800	ACCUMULA TION	INTEG ER	ZH9420X:Faile d Incoming External Inter- Cell Handovers (SDCCH) (1800/1900-18 00/1900) per BSC	B1275072051.C12 78703552	Sum	hubsvbh, hubtvbh
Fail_Inc_ext_Ir C_HOs_TCH_1 800_1800	ACCUMULA TION	INTEG ER	ZH9429X:Faile d Incoming External Inter- Cell Handovers (TCH) (1800/1900-18 00/1900) per BSC	B1275072051.C12 78703556	Sum	hubsvbh, hubtvbh
Fail_Inc_ext_Ir C_HOs_TCH_1 800_900	ACCUMULA TION	INTEG ER	ZH9429Z:Faile d Incoming External Inter- Cell Handovers (TCH) (1800/1900-90 0/850) per BSC	B1275072051.C12 78703558	Sum	hubsvbh, hubtvbh
Fail_Inc_ext_Ir C_HOs_TCH_9 00_1800	ACCUMULA TION	INTEG ER	ZH9429Y:Faile d Incoming External Inter- Cell Handovers (TCH) (900/850-1800/ 1900) per BSC	B1275072051.C12 78703557	Sum	hubsvbh, hubtvbh
Fail_Inc_ext_Ir C_HOs_terr_re s_req_fail	ACCUMULA TION	INTEG ER	ZK3186:Failed Incoming External Inter- Cell Handovers (Terrestrial Resource Request Failed) per BSC	B1275072051.C12 78703562	Sum	hubsvbh, hubtvbh
Fail_Inc_ext_Ir Cell_HOs_CIC _Unav	ACCUMULA TION	INTEG ER	ZK3184:Failed Incoming External Inter- Cell Handovers (CIC	B1275072051.C12 78703560	Sum	hubsvbh, hubtvbh

			Unavailable) per BSC			
Fail_Inc_ext_Ir Cell_HOs_SD_ 1800_900	ACCUMULA TION	INTEG ER	ZH9420Z:Faile d Incoming External Inter- Cell Handovers (SDCCH) (1800/1900-90 0/850) per BSC	B1275072051.C12 78703554	Sum	hubsvbh, hubtvbh
Fail_Inc_ext_Ir Cell_HOs_SD_ 900_1800	ACCUMULA TION	INTEG ER	ZH9420Y:Faile d Incoming External Inter- Cell Handovers (SDCCH) (900/850-1800/ 1900) per BSC	B1275072051.C12 78703553	Sum	hubsvbh, hubtvbh
Fail_Inc_ext_Ir Cell_HOs_SD_ 900_900	ACCUMULA TION	INTEG ER	ZH9420W:Fail ed Incoming External Inter- Cell Handovers (SDCCH) (900/850-900/8 50) per BSC	B1275072051.C12 78703551	Sum	hubsvbh, hubtvbh
Fail_Inc_ext_Ir Cell_HOs_TCH _900_900	ACCUMULA TION	INTEG ER	ZH9429W:Fail ed Incoming External Inter- Cell Handovers (TCH) (900/850-900/8 50) per BSC	B1275072051.C12 78703555	Sum	hubsvbh, hubtvbh
Inc_ext_IrC_H O_resp_TCHF_ 1800_1800	ACCUMULA TION	INTEG ER	ZH9417X:Inco ming External Inter-Cell Handover Responses (TCHF) (1800/1900-18 00/1900) per	B1275072051.C12 78703544	Sum	hubsvbh, hubtvbh

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			BSC			
Inc_ext_IrC_H O_resp_TCHF_ 1800_900	ACCUMULA TION	INTEG ER	ZH9417Z:Inco ming External Inter-Cell Handover Responses (TCHF) (1800/1900-90 0/850) per BSC	B1275072051.C12 78703546	Sum	hubsvbh, hubtvbh
Inc_ext_IrC_H O_resp_TCHF_ 900_1800	ACCUMULA TION	INTEG ER	ZH9417Y:Inco ming External Inter-Cell Handover Responses (TCHF) (900/850-1800/ 1900) per BSC	B1275072051.C12 78703545	Sum	hubsvbh, hubtvbh
Inc_ext_IrC_H O_resp_TCHH _1800_1800	ACCUMULA TION	INTEG ER	ZH9418X:Inco ming External Inter-Cell Handover Responses (TCHH) (1800/1900-18 00/1900) per BSC	B1275072051.C12 78703548	Sum	hubsvbh, hubtvbh
Inc_ext_IrC_H O_resp_TCHH _1800_900	ACCUMULA TION	INTEG ER	ZH9418Z:Inco ming External Inter-Cell Handover Responses (TCHH) (1800/1900-90 0/850) per BSC	B1275072051.C12 78703550	Sum	hubsvbh, hubtvbh
Inc_ext_IrC_H O_resp_TCHH _900_1800	ACCUMULA TION	INTEG ER	ZH9418Y:Inco ming External Inter-Cell Handover Responses (TCHH) (900/850-1800/ 1900) per BSC	B1275072051.C12 78703549	Sum	hubsvbh, hubtvbh

Inc_ext_IrCell_HO_reqs_SD_1800_1800	ACCUMULATION	INTEGRER	ZH9400X:Incoming External Inter-Cell Handover Requests (SDCCH) (1800/1900-1800/1900) per BSC	B1275072051.C1278703538	Sum	hubsvbh, hubtvbh
Inc_ext_IrCell_HO_resp_SD_1800_1800	ACCUMULATION	INTEGRER	ZH9410X:Incoming External Inter-Cell Handover Responses (SDCCH) (1800/1900-1800/1900) per BSC	B1275072051.C1278703540	Sum	hubsvbh, hubtvbh
Inc_ext_IrCell_HO_resp_SD_1800_900	ACCUMULATION	INTEGRER	ZH9410Z:Incoming External Inter-Cell Handover Responses (SDCCH) (1800/1900-900/850) per BSC	B1275072051.C1278703542	Sum	hubsvbh, hubtvbh
Inc_ext_IrCell_HO_resp_SD_900_1800	ACCUMULATION	INTEGRER	ZH9410Y:Incoming External Inter-Cell Handover Responses (SDCCH) (900/850-1800/1900) per BSC	B1275072051.C1278703541	Sum	hubsvbh, hubtvbh
Inc_ext_IrCell_HO_resp_SD_900_900	ACCUMULATION	INTEGRER	ZH9410W:Incoming External Inter-Cell Handover Responses	B1275072051.C1278703539	Sum	hubsvbh, hubtvbh

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			(SDCCH) (900/850-900/850) per BSC			
Inc_ext_IrCell_HO_resp_TCHF_900_900	ACCUMULATION	INTEGER	ZH9417W:Incoming External Inter-Cell Handover Responses (TCHF) (900/850-900/850) per BSC	B1275072051.C12 78703543	Sum	hubsvbh, hubtvbh
Inc_ext_IrCell_HO_resp_TCHH_900_900	ACCUMULATION	INTEGER	ZH9418W:Incoming External Inter-Cell Handover Responses (TCHH) (900/850-900/850) per BSC	B1275072051.C12 78703547	Sum	hubsvbh, hubtvbh
Inc_ext_IrCell_HO_resp	ACCUMULATION	INT8	ZCH341:Incoming External Inter-Cell Handover Responses per BSC	B1275072051.C12 78703564	Sum	hubsvbh, hubtvbh
INTERBSC_INCELL_HO_CMD	ACCUMULATION	INT8	ZK3191:External Incoming Cell Handover Commands per BSC	B1275072051.C12 78703579	Sum	hubsvbh, hubtvbh
INTERBSC_INCELL_HO_REQ	ACCUMULATION	INT8	ZCH340:External Incoming Cell Handover Requests per BSC	B1275072051.C12 78703578	Sum	hubsvbh, hubtvbh
INTERBSC_INCELL_HO_SUCC	ACCUMULATION	INT8	ZCH343:Successful External Incoming Cell Handovers per BSC	B1275072051.C12 78703580	Sum	hubsvbh, hubtvbh
KPI_INTERBS	INTENSITY	FLOA	ZK3179:Extern	B1275072051.C12	Average	Average,

C_INCELL_WIRELESS		T	al Incoming Cell Radio Handover Success Ratio per BSC	78703591		hubsvbh, hubtvbh, Maximum, Minimum, Sum
KPI_INTERBSC_INCELL	INTENSITY	FLOAT	ZK3178:External Incoming Cell Handover Success Ratio per BSC	B1275072051.C1278703590	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum

**7.5.35 BSC.Huawei.GSM.Handover\_kpi\_incoming\_int**

Incoming internal handovers

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
Fail_Inc_int_IrC_HOs_SD_1800_1800	ACCUMULATION	INTEGER	ZH9220X:Failed Incoming Internal Inter-Cell Handovers (SDCCH) (1800/1900-1800/1900) per BSC	B1275072051.C1278703483	Sum	
Fail_Inc_int_IrC_HOs_TCH_1800_1800	ACCUMULATION	INTEGER	ZH9229X:Failed Incoming Internal Inter-Cell Handovers (TCH) (1800/1900-1800/1900) per BSC	B1275072051.C1278703487	Sum	
Fail_Inc_int_IrC_HOs_TCH_1800_1800	ACCUMULATION	INTEGER	ZH9229Z:Failed Incoming Internal Inter-Cell Handovers (TCH) (1800/1900-1800/1900) per BSC	B1275072051.C1278703489	Sum	

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800_900			Internal Inter-Cell Handovers (TCH) (1800/1900-900/850) per BSC			
Fail_Inc_int_IrC_HOs_TCH_900_1800	ACCUMULATION	INTEGER	ZH9229Y:Failed Incoming Internal Inter-Cell Handovers (TCH) (900/850-1800/1900) per BSC	B1275072051.C1278703488	Sum	
Fail_Inc_int_IrCell_HOs_SD_1800_900	ACCUMULATION	INTEGER	ZH9220Z:Failed Incoming Internal Inter-Cell Handovers (SDCCH) (1800/1900-900/850) per BSC	B1275072051.C1278703485	Sum	
Fail_Inc_int_IrCell_HOs_SD_900_1800	ACCUMULATION	INTEGER	ZH9220Y:Failed Incoming Internal Inter-Cell Handovers (SDCCH) (900/850-1800/1900) per BSC	B1275072051.C1278703484	Sum	
Fail_Inc_int_IrCell_HOs_SD_900_900	ACCUMULATION	INTEGER	ZH9220W:Failed Incoming Internal Inter-Cell Handovers (SDCCH) (900/850-900/850) per BSC	B1275072051.C1278703482	Sum	
Fail_Inc_int_IrCell_HOs_TCH_900_900	ACCUMULATION	INTEGER	ZH9229W:Failed Incoming Internal Inter-Cell Handovers (TCH) (900/850-900/850) per BSC	B1275072051.C1278703486	Sum	
Inc_int_IrC_HO_resp_TCHF_	ACCUMULATION	INTEGER	ZH9217X:Incoming Internal	B1275072051.C1278703475	Sum	hubsvbh, hubtvbh

1800_1800			Inter-Cell Handover Responses (TCHF) (1800/1900-1800/1900) per BSC			
Inc_int_IrC_HO_resp_TCHF_1800_900	ACCUMULATION	INTEGER	ZH9217Z:Incoming Internal Inter-Cell Handover Responses (TCHF) (1800/1900-900/850) per BSC	B1275072051.C1278703477	Sum	hubsvbh, hubtvbh
Inc_int_IrC_HO_resp_TCHF_900_1800	ACCUMULATION	INTEGER	ZH9217Y:Incoming Internal Inter-Cell Handover Responses (TCHF) (900/850-1800/1900) per BSC	B1275072051.C1278703476	Sum	hubsvbh, hubtvbh
Inc_int_IrC_HO_resp_TCHH_1800_1800	ACCUMULATION	INTEGER	ZH9218X:Incoming Internal Inter-Cell Handover Responses (TCHH) (1800/1900-1800/1900) per BSC	B1275072051.C1278703479	Sum	hubsvbh, hubtvbh
Inc_int_IrC_HO_resp_TCHH_1800_900	ACCUMULATION	INTEGER	ZH9218Z:Incoming Internal Inter-Cell Handover Responses (TCHH) (1800/1900-900/850) per BSC	B1275072051.C1278703481	Sum	hubsvbh, hubtvbh

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			0/850) per BSC			
Inc_int_IrC_HO_resp_TCHH_900_1800	ACCUMULATION	INTEGER	ZH9218Y:Incoming Internal Inter-Cell Handover Responses (TCHH) (900/850-1800/1900) per BSC	B1275072051.C1278703480	Sum	hubsvbh, hubtvbh
Inc_int_IrCell_HO_resp_SD_1800_1800	ACCUMULATION	INTEGER	ZH9210X:Incoming Internal Inter-Cell Handover Responses (SDCCH) (1800/1900-1800/1900) per BSC	B1275072051.C1278703471	Sum	hubsvbh, hubtvbh
Inc_int_IrCell_HO_resp_SD_1800_900	ACCUMULATION	INTEGER	ZH9210Z:Incoming Internal Inter-Cell Handover Responses (SDCCH) (1800/1900-900/850) per BSC	B1275072051.C1278703473	Sum	hubsvbh, hubtvbh
Inc_int_IrCell_HO_resp_SD_900_1800	ACCUMULATION	INTEGER	ZH9210Y:Incoming Internal Inter-Cell Handover Responses (SDCCH) (900/850-1800/1900) per BSC	B1275072051.C1278703472	Sum	hubsvbh, hubtvbh
Inc_int_IrCell_HO_resp_SD_900_900	ACCUMULATION	INTEGER	ZH9210W:Incoming Internal Inter-Cell Handover Responses (SDCCH) (900/850-900/850) per BSC	B1275072051.C1278703470	Sum	hubsvbh, hubtvbh

Inc_int_IrCell_HO_resp_TCHF_900_900	ACCUMULATION	INTEGER	ZH9217W:Incoming Internal Inter-Cell Handover Responses (TCHF) (900/850-900/850) per BSC	B1275072051.C1278703474	Sum	hubsvbh, hubtvbh
Inc_int_IrCell_HO_resp_TCHH_900_900	ACCUMULATION	INTEGER	ZH9218W:Incoming Internal Inter-Cell Handover Responses (TCHH) (900/850-900/850) per BSC	B1275072051.C1278703478	Sum	hubsvbh, hubtvbh
Inc_int_IrCell_HO_resp	ACCUMULATION	INT8	ZCH321:Incoming Internal Inter-Cell Handover Responses per BSC	B1275072051.C1278703565	Sum	hubsvbh, hubtvbh
INTRABSC_INCELL_HO_CM D	ACCUMULATION	INT8	ZK3190:Internal Incoming Cell Handover Commands per BSC	B1275072051.C1278703573	Sum	hubsvbh, hubtvbh
INTRABSC_INCELL_HO_RE Q	ACCUMULATION	INT8	ZCH320:Internal Incoming Cell Handover Requests per BSC	B1275072051.C1278703572	Sum	hubsvbh, hubtvbh
INTRABSC_INCELL_HO_SU CC	ACCUMULATION	INT8	ZCH323:Successful Internal Incoming Cell Handovers per BSC	B1275072051.C1278703574	Sum	hubsvbh, hubtvbh

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### 7.5.36 BSC.Huawei.GSM.Handover\_kpi\_intra\_cell

#### Intracell Handovers

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
Int_IntraCell_HO_cmds_SDCCCH	ACCUMULATION	INTEGER	ZH9010:Internal Intra-Cell Handover Commands (SDCCCH)per BSC	B1275072051.C1278703417	Sum	hubsvbh, hubtvbh
Int_IntraCell_HO_cmds_TCHF	ACCUMULATION	INTEGER	ZH9017:Internal Intra-Cell Handover Commands (TCHF)per BSC	B1275072051.C1278703418	Sum	hubsvbh, hubtvbh
Int_IntraCell_HO_cmds_TCHH	ACCUMULATION	INTEGER	ZH9018:Internal Intra-Cell Handover Commands (TCHH)per BSC	B1275072051.C1278703419	Sum	hubsvbh, hubtvbh
INTRACELL_HO_CMD	ACCUMULATION	INT8	ZCH301:Internal Intra-Cell Handover Commands per BSC	B1275072051.C1278703567	Sum	hubsvbh, hubtvbh
INTRACELL_HO_REQ	ACCUMULATION	INT8	ZCH300:Internal Intra-Cell Handover Requests per BSC	B1275072051.C1278703566	Sum	hubsvbh, hubtvbh
INTRACELL_HO_SUCC	ACCUMULATION	INT8	ZCH303:Successful Internal Intra-Cell Handovers per BSC	B1275072051.C1278703568	Sum	hubsvbh, hubtvbh
IntraCell_HOs_SDCCCH	ACCUMULATION	INTEGER	ZH9020:Failed Internal Intra-Cell	B1275072051.C1278703420	Sum	hubsvbh, hubtvbh

			Handovers(SDCCH)per BSC			
IntraCell_HOs_TCH	ACCUMULATION	INTEGER	ZH9029:Failed Internal Intra-Cell Handovers(TCH)per BSC	B1275072051.C1278703421	Sum	hubsvbh, hubtvbh

### 7.5.37 BSC.Huawei.GSM.Handover\_kpi\_outgoing\_ext

Outgoing external handovers

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
Ext_IrC_HOs_SDCCH_1800_1900_900_850	ACCUMULATION	INTEGER	ZH9320Z:Failed Outgoing External Inter-Cell Handovers (SDCCH) (1800/1900-900/850) per BSC	B1275072051.C1278703525	Sum	hubsvbh, hubtvbh
Ext_IrC_HOs_SDCCH_900_850_1800_1900	ACCUMULATION	INTEGER	ZH9320Y:Failed Outgoing External Inter-Cell Handovers (SDCCH) (900/850-1800/1900) per BSC	B1275072051.C1278703524	Sum	hubsvbh, hubtvbh
Ext_IrC_HOs_SDCCH_900_850_900_850	ACCUMULATION	INTEGER	ZH9320W:Failed Outgoing External Inter-Cell Handovers (SDCCH) (900/850-900/850) per BSC	B1275072051.C1278703522	Sum	hubsvbh, hubtvbh
Ext_IrC_HOs_TCHF_1800_1900	ACCUMULATION	INTEGER	ZH9327Z:Failed Outgoing	B1275072051.C1278703529	Sum	hubsvbh, hubtvbh

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00_900_850			External Inter-Cell Handovers (TCHF) (1800/1900-900/850) per BSC			
Ext_IrC_HOs_TCHF_900_850_1800_1900	ACCUMULATION	INTEGER	ZH9327Y:Failed Outgoing External Inter-Cell Handovers (TCHF) (900/850-1800/1900) per BSC	B1275072051.C1278703528	Sum	hubsvbh, hubtvbh
Ext_IrC_HOs_TCHH_1800_1900_900_850	ACCUMULATION	INTEGER	ZH9328Z:Failed Outgoing External Inter-Cell Handovers (TCHH) (1800/1900-900/850) per BSC	B1275072051.C1278703533	Sum	hubsvbh, hubtvbh
Ext_IrC_HOs_TCHH_900_850_1800_1900	ACCUMULATION	INTEGER	ZH9328Y:Failed Outgoing External Inter-Cell Handovers (TCHH) (900/850-1800/1900) per BSC	B1275072051.C1278703532	Sum	hubsvbh, hubtvbh
Ext_IrCell_HOs_dir_Rty_1800_1800	ACCUMULATION	INTEGER	ZH9321X:Failed Outgoing External Inter-Cell Handovers (Directed Retry) (1800/1900-1800/1900) per BSC	B1275072051.C1278703535	Sum	hubsvbh, hubtvbh
Ext_IrCell_HOs_dir_Rty_1800_900	ACCUMULATION	INTEGER	ZH9321Z:Failed Outgoing External Inter-Cell Handovers (Directed Retry) (1800/1900-900/850) per BSC	B1275072051.C1278703537	Sum	hubsvbh, hubtvbh

Ext_IrCell_HOs_dir_Rty_900_1800	ACCUMULATION	INTEGER	ZH9321Y:Failed Outgoing External Inter-Cell Handovers (Directed Retry) (900/850-1800/1900) per BSC	B1275072051.C1278703536	Sum	hubsvbh, hubtvbh
Ext_IrCell_HOs_dir_Rty_900_900	ACCUMULATION	INTEGER	ZH9321W:Failed Outgoing External Inter-Cell Handovers (Directed Retry) (900/850-900/850) per BSC	B1275072051.C1278703534	Sum	hubsvbh, hubtvbh
Ext_IrCell_HOs_SD_18001900_18001900	ACCUMULATION	INTEGER	ZH9320X:Failed Outgoing External Inter-Cell Handovers (SDCCH) (1800/1900-1800/1900) per BSC	B1275072051.C1278703523	Sum	hubsvbh, hubtvbh
Ext_IrCell_HOs_TCHF_1800_1800	ACCUMULATION	INTEGER	ZH9327X:Failed Outgoing External Inter-Cell Handovers (TCHF) (1800/1900-1800/1900) per BSC	B1275072051.C1278703527	Sum	hubsvbh, hubtvbh
Ext_IrCell_HOs_TCHF_900_850_900_850	ACCUMULATION	INTEGER	ZH9327W:Failed Outgoing External Inter-Cell Handovers (TCHF) (900/850-900/850) per BSC	B1275072051.C1278703526	Sum	hubsvbh, hubtvbh

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Ext_IrCell_HOs_TCHH_1800_1800	ACCUMULATION	INTEGER	ZH9328X:Failed Outgoing External Inter-Cell Handovers (TCHH) (1800/1900-1800/1900) per BSC	B1275072051.C1278703531	Sum	hubsvbh, hubtvbh
Ext_IrCell_HOs_TCHH_900_850_900_850	ACCUMULATION	INTEGER	ZH9328W:Failed Outgoing External Inter-Cell Handovers (TCHH) (900/850-900/850) per BSC	B1275072051.C1278703530	Sum	hubsvbh, hubtvbh
INTERBSC_INCEL_HO_CMD_DIFSIGPT	ACCUMULATION	INT8	ZK3194:External Outgoing Cell Handover Commands per BSC (Inter-Signaling-Point Handover)	B1275072051.C1278703585	Sum	hubsvbh, hubtvbh
INTERBSC_INCEL_HO_FAIL_DIFSIGPT	ACCUMULATION	INT8	ZK3193:Failed External Outgoing Cell Handovers per BSC (Inter-Signaling-Point Handover)	B1275072051.C1278703584	Sum	hubsvbh, hubtvbh
INTERBSC_INCEL_HO_REQ_DIFSIGPT	ACCUMULATION	INT8	ZK3192:External Outgoing Cell Handover Requests per BSC (Inter-Signaling-Point Handover)	B1275072051.C1278703583	Sum	hubsvbh, hubtvbh
INTERBSC_OUTCELL_HO_CMD	ACCUMULATION	INT8	ZCH331:External Outgoing Cell Handover Commands per BSC	B1275072051.C1278703576	Sum	hubsvbh, hubtvbh
INTERBSC_O	ACCUMULATION	INT8	ZCH330:Exter	B1275072051.C12	Sum	hubsvbh,

UTCELL_HO_REQ	TION		nal Outgoing Cell Handover Requests per BSC	78703575		hubtvbh
INTERBSC_OUTCELL_HO_SUCC	ACCUMULATION	INT8	ZCH333:Successful External Outgoing Cell Handovers per BSC	B1275072051.C12 78703577	Sum	hubsvbh, hubtvbh
KPI_INTERBSC_OUTCELL_WIRELESS	INTENSITY	FLOAT	ZK3177:External Outgoing Cell Radio Handover Success Ratio per BSC	B1275072051.C12 78703589	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
KPI_INTERBSC_OUTCELL	INTENSITY	FLOAT	ZK3176:External Outgoing Cell Handover Success Ratio per BSC	B1275072051.C12 78703588	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
O_ext_IrC_HO_cmd_dirRty_1800_1800	ACCUMULATION	INTEGER	ZH9311X:Outgoing External Inter-Cell Handover Commands (Directed Retry) (1800/1900-1800/1900) per BSC	B1275072051.C12 78703519	Sum	hubsvbh, hubtvbh
O_ext_IrC_HO_cmd_dirRty_1800_900	ACCUMULATION	INTEGER	ZH9311Z:Outgoing External Inter-Cell Handover Commands(Dir	B1275072051.C12 78703521	Sum	hubsvbh, hubtvbh

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			ected Retry) (1800/1900-900/850) per BSC			
O_ext_IrC_HO _cmd_dirRty_900_1800	ACCUMULATION	INTEGER	ZH9311Y:Outgoing External Inter-Cell Handover Commands (Directed Retry) (900/850-1800/1900) per BSC	B1275072051.C1278703520	Sum	hubsvbh, hubtvbh
O_ext_IrC_HO _cmd_dirRty_900_900	ACCUMULATION	INTEGER	ZH9311W:Outgoing External Inter-Cell Handover Commands(Directed Retry) (900/850-900/850) per BSC	B1275072051.C1278703518	Sum	hubsvbh, hubtvbh
O_ext_IrC_HO _cmd_SD_exdirRty_1800_1800	ACCUMULATION	INTEGER	ZH9310X:Outgoing External Inter-Cell Handover Commands (SDCCH) (Excluding Directed Retry) (1800/1900-1800/1900) per BSC	B1275072051.C1278703507	Sum	hubsvbh, hubtvbh
O_ext_IrC_HO _cmd_SD_exdirRty_1800_900	ACCUMULATION	INTEGER	ZH9310Z:Outgoing External Inter-Cell Handover Commands (SDCCH) (Excluding Directed Retry) (1800/1900-900/850) per BSC	B1275072051.C1278703509	Sum	hubsvbh, hubtvbh
O_ext_IrC_HO _cmd_SD_exdir	ACCUMULATION	INTEGER	ZH9310Y:Outgoing External	B1275072051.C1278703508	Sum	hubsvbh, hubtvbh

Rty_900_1800			Inter-Cell Handover Commands (SDCCH) (Excluding Directed Retry) (900/850-1800/1900) per BSC			
O_ext_IrC_HO_cmd_SD_exdirRty_900_900	ACCUMULATION	INTEGER	ZH9310W:Out going External Inter-Cell Handover Commands (SDCCH) (Excluding Directed Retry) (900/850-900/850) per BSC	B1275072051.C1278703506	Sum	hubsvbh, hubtvbh
O_ext_IrC_HO_cmd_TCHF_exdirRty_900_900	ACCUMULATION	INTEGER	ZH9317W:Out going External Inter-Cell Handover Commands (TCHF) (Excluding Directed Retry) (900/850-900/850) per BSC	B1275072051.C1278703510	Sum	hubsvbh, hubtvbh
O_ext_IrC_HO_cmd_TCHH_exdirRty_900_900	ACCUMULATION	INTEGER	ZH9318W:Out going External Inter-Cell Handover Commands (TCHH) (Excluding Directed Retry) (900/850-900/850) per BSC	B1275072051.C1278703514	Sum	hubsvbh, hubtvbh
O_ext_IrC_HO	ACCUMULATION	INTEGER	ZH9317X:Outg	B1275072051.C12	Sum	hubsvbh,

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cm_TCHF_exdi rRty_1800_1800	TION	ER	oing External Inter-Cell Handover Commands (TCHF) (Excluding Directed Retry) (1800/1900-1800/1900) per BSC	78703511		hubtvbh
O_ext_IrC_HO cm_TCHF_exdi rRty_1800_900	ACCUMULATION	INTEGRER	ZH9317Z:Outg oing External Inter-Cell Handover Commands (TCHF) (Excluding Directed Retry) (1800/1900-900/850) per BSC	B1275072051.C12 78703513	Sum	hubsvbh, hubtvbh
O_ext_IrC_HO cm_TCHF_exdi rRty_900_1800	ACCUMULATION	INTEGRER	ZH9317Y:Outg oing External Inter-Cell Handover Commands (TCHF) (Excluding Directed Retry) (900/850-1800/1900) per BSC	B1275072051.C12 78703512	Sum	hubsvbh, hubtvbh
O_ext_IrC_HO cm_TCHH_exdi rRty_1800_1800	ACCUMULATION	INTEGRER	ZH9318X:Outg oing External Inter-Cell Handover Commands (TCHH) (Excluding Directed Retry) (1800/1900-1800/1900) per BSC	B1275072051.C12 78703515	Sum	hubsvbh, hubtvbh
O_ext_IrC_HO cm_TCHH_exdi	ACCUMULATION	INTEGRER	ZH9318Z:Outg oing External	B1275072051.C12 78703517	Sum	hubsvbh, hubtvbh

irRty_1800_900			Inter-Cell Handover Commands (TCHH) (Excluding Directed Retry) (1800/1900-900/850) per BSC			
O_ext_IrC_HOcm_TCHH_exdirRty_900_1800	ACCUMULATION	INTEGRER	ZH9318Y:Outgoing External Inter-Cell Handover Commands (TCHH) (Excluding Directed Retry) (900/850-1800/1900) per BSC	B1275072051.C1278703516	Sum	hubsvbh, hubtvbh
O_ext_IrC_HOrq_dirRty_1800_1800	ACCUMULATION	INTEGRER	ZH9301X:Outgoing External Inter-Cell Handover Requests (Directed Retry) (1800/1900-1800/1900) per BSC	B1275072051.C1278703503	Sum	hubsvbh, hubtvbh
O_ext_IrC_HOrq_dirRty_1800_900	ACCUMULATION	INTEGRER	ZH9301Z:Outgoing External Inter-Cell Handover Requests (Directed Retry) (1800/1900-900/850) per BSC	B1275072051.C1278703505	Sum	hubsvbh, hubtvbh
O_ext_IrC_HOrq_dirRty_900_1800	ACCUMULATION	INTEGRER	ZH9301Y:Outgoing External Inter-Cell Handover Requests (Directed Retry) (900/850-1800/1900) per BSC	B1275072051.C1278703504	Sum	hubsvbh, hubtvbh

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800			Inter-Cell Handover Requests (Directed Retry) (900/850-1800/1900) per BSC			
O_ext_IrC_HOrq_dirRty_900_900	ACCUMULATION	INTEGER	ZH9301W:Outgoing External Inter-Cell Handover Requests (Directed Retry) (900/850-900/850) per BSC	B1275072051.C1278703502	Sum	hubsvbh, hubtvbh
O_ext_IrC_HOrq_SD_exdirRty_1800_1800	ACCUMULATION	INTEGER	ZH9300X:Outgoing External Inter-Cell Handover Requests (SDCCH) (Excluding Directed Retry) (1800/1900-1800/1900) per BSC	B1275072051.C1278703491	Sum	hubsvbh, hubtvbh
O_ext_IrC_HOrq_SD_exdirRty_1800_900	ACCUMULATION	INTEGER	ZH9300Z:Outgoing External Inter-Cell Handover Requests (SDCCH) (Excluding Directed Retry) (1800/1900-900/850) per BSC	B1275072051.C1278703493	Sum	hubsvbh, hubtvbh
O_ext_IrC_HOrq_SD_exdirRty_900_1800	ACCUMULATION	INTEGER	ZH9300Y:Outgoing External Inter-Cell Handover Requests (SDCCH)	B1275072051.C1278703492	Sum	hubsvbh, hubtvbh

			(Excluding Directed Retry) (900/850-1800/1900) per BSC			
O_ext_IrC_HOrq_SD_exdirRty_900_900	ACCUMULATION	INTEGER	ZH9300W:Outgoing External Inter-Cell Handover Requests (SDCCH) (Excluding Directed Retry) (900/850-900/850) per BSC	B1275072051.C12 78703490	Sum	hubsvbh, hubtvbh
O_ext_IrC_HOrq_TCHF_exdirRty_1800_1800	ACCUMULATION	INTEGER	ZH9307X:Outgoing External Inter-Cell Handover Requests (TCHF) (Excluding Directed Retry) (1800/1900-1800/1900) per BSC	B1275072051.C12 78703495	Sum	hubsvbh, hubtvbh
O_ext_IrC_HOrq_TCHF_exdirRty_1800_900	ACCUMULATION	INTEGER	ZH9307Z:Outgoing External Inter-Cell Handover Requests (TCHF) (Excluding Directed Retry) (1800/1900-900/850) per BSC	B1275072051.C12 78703497	Sum	hubsvbh, hubtvbh
O_ext_IrC_HOrq_TCHF_exdirRty_900_1800	ACCUMULATION	INTEGER	ZH9307Y:Outgoing External Inter-Cell Handover	B1275072051.C12 78703496	Sum	hubsvbh, hubtvbh

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			Requests (TCHF) (Excluding Directed Retry) (900/850-1800/ 1900) per BSC			
O_ext_IrC_HOr q_TCHF_exdir Rty_900_900	ACCUMULA TION	INTEG ER	ZH9307W:Out going External Inter-Cell Handover Requests (TCHF) (Excluding Directed Retry) (900/850-900/8 50) per BSC	B1275072051.C12 78703494	Sum	hubsvbh, hubtvbh
O_ext_IrC_HOr q_TCHH_exdir Rty_1800_1800	ACCUMULA TION	INTEG ER	ZH9308X:Outg oing External Inter-Cell Handover Requests (TCHH) (Excluding Directed Retry) (1800/1900-18 00/1900) per BSC	B1275072051.C12 78703499	Sum	hubsvbh, hubtvbh
O_ext_IrC_HOr q_TCHH_exdir Rty_1800_900	ACCUMULA TION	INTEG ER	ZH9308Z:Outg oing External Inter-Cell Handover Requests (TCHH) (Excluding Directed Retry) (1800/1900-90 0/850) per BSC	B1275072051.C12 78703501	Sum	hubsvbh, hubtvbh
O_ext_IrC_HOr q_TCHH_exdir Rty_900_1800	ACCUMULA TION	INTEG ER	ZH9308Y:Outg oing External Inter-Cell Handover Requests (TCHH)	B1275072051.C12 78703500	Sum	hubsvbh, hubtvbh

			(Excluding Directed Retry) (900/850-1800/1900) per BSC			
O_ext_IrC_HOReq_TCHH_exdirRty_900_900	ACCUMULATION	INTEGER	ZH9308W:Outgoing External Inter-Cell Handover Requests (TCHH) (Excluding Directed Retry) (900/850-900/850) per BSC	B1275072051.C1278703498	Sum	hubsvbh, hubtvbh

### 7.5.38 BSC.Huawei.GSM.Handover\_kpi\_outgoing\_int

Outgoing internal handovers

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
Int_IrC_HOs_SD_exdirRty_1800_1800	ACCUMULATION	INTEGER	ZH9120X:Failed Outgoing Internal Inter-Cell Handovers (SDCCH) (Excluding Directed Retry) (1800/1900-1800/1900) per BSC	B1275072051.C1278703455	Sum	hubsvbh, hubtvbh
Int_IrC_HOs_SD_exdirRty_1800_900	ACCUMULATION	INTEGER	ZH9120Z:Failed Outgoing Internal Inter-Cell Handovers (SDCCH) (Excluding Directed Retry)	B1275072051.C1278703457	Sum	hubsvbh, hubtvbh

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			(1800/1900-900/850) per BSC			
Int_IrC_HOs_SD_exdirRty_90_1800	ACCUMULATION	INTEGER	ZH9120Y:Failed Outgoing Internal Inter-Cell Handovers (SDCCH) (Excluding Directed Retry) (900/850-1800/1900) per BSC	B1275072051.C1278703456	Sum	hubsvbh, hubtvbh
Int_IrC_HOs_SD_exdirRty_90_900	ACCUMULATION	INTEGER	ZH9120W:Failed Outgoing Internal Inter-Cell Handovers (SDCCH) (Excluding Directed Retry) (900/850-900/850) per BSC	B1275072051.C1278703454	Sum	hubsvbh, hubtvbh
Int_IrC_HOs_TCHF_exdirRty_1800_1800	ACCUMULATION	INTEGER	ZH9127X:Failed Outgoing Internal Inter-Cell Handovers (TCHF) (Excluding Directed Retry) (1800/1900-1800/1900) per BSC	B1275072051.C1278703459	Sum	hubsvbh, hubtvbh
Int_IrC_HOs_TCHF_exdirRty_1800_900	ACCUMULATION	INTEGER	ZH9127Z:Failed Outgoing Internal Inter-Cell Handovers (TCHF) (Excluding Directed Retry) (1800/1900-900/850) per BSC	B1275072051.C1278703461	Sum	hubsvbh, hubtvbh
Int_IrC_HOs_TCHF_exdirRty_900_1800	ACCUMULATION	INTEGER	ZH9127Y:Failed Outgoing Internal Inter-Cell Handovers	B1275072051.C1278703460	Sum	hubsvbh, hubtvbh

			(TCHF) (Excluding Directed Retry) (900/850-1800/ 1900) per BSC			
Int_IrC_HOs_T CHF_exdirRty_ 900_900	ACCUMULA TION	INTEG ER	ZH9127W:Fail ed Outgoing Internal Inter- Cell Handovers (TCHF) (Excluding Directed Retry) (900/850-900/8 50) per BSC	B1275072051.C12 78703458	Sum	hubsvbh, hubtvbh
Int_IrC_HOs_T CHH_exdirRty_ _1800_1800	ACCUMULA TION	INTEG ER	ZH9128X:Faile d Outgoing Internal Inter- Cell Handovers (TCHH) (Excluding Directed Retry) (1800/1900-18 00/1900) per BSC	B1275072051.C12 78703463	Sum	hubsvbh, hubtvbh
Int_IrC_HOs_T CHH_exdirRty_ _1800_900	ACCUMULA TION	INTEG ER	ZH9128Z:Faile d Outgoing Internal Inter- Cell Handovers (TCHH) (Excluding Directed Retry) (1800/1900-90 0/850) per BSC	B1275072051.C12 78703465	Sum	hubsvbh, hubtvbh
Int_IrC_HOs_T CHH_exdirRty_ _900_1800	ACCUMULA TION	INTEG ER	ZH9128Y:Faile d Outgoing Internal Inter- Cell Handovers (TCHH) (Excluding	B1275072051.C12 78703464	Sum	hubsvbh, hubtvbh

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			Directed Retry) (900/850-1800/ 1900) per BSC			
Int_IrC_HOs_T CHH_exdirRty _900_900	ACCUMULA TION	INTEG ER	ZH9128W:Fail ed Outgoing Internal Inter- Cell Handovers (TCHH) (Excluding Directed Retry) (900/850-900/8 50) per BSC	B1275072051.C12 78703462	Sum	hubsvbh, hubtvbh
Int_IrCell_HOs _dir_Rty_1800_ 1800	ACCUMULA TION	INTEG ER	ZH9121X:Faile d Outgoing Internal Inter- Cell Handovers (Directed Retry) (1800/1900-18 00/1900) per BSC	B1275072051.C12 78703467	Sum	hubsvbh, hubtvbh
Int_IrCell_HOs _dir_Rty_1800_ 900	ACCUMULA TION	INTEG ER	ZH9121Z:Faile d Outgoing Internal Inter- Cell Handovers (Directed Retry) (1800/1900-90 0/850) per BSC	B1275072051.C12 78703469	Sum	hubsvbh, hubtvbh
Int_IrCell_HOs _dir_Rty_900_ 1800	ACCUMULA TION	INTEG ER	ZH9121Y:Faile d Outgoing Internal Inter- Cell Handovers (Directed Retry) (900/850-1800/ 1900) per BSC	B1275072051.C12 78703468	Sum	hubsvbh, hubtvbh
Int_IrCell_HOs _dir_Rty_900_ 900	ACCUMULA TION	INTEG ER	ZH9121W:Fail ed Outgoing Internal Inter- Cell Handovers (Directed Retry)	B1275072051.C12 78703466	Sum	hubsvbh, hubtvbh

			(900/850-900/850) per BSC			
INTRABSC_OUTCELL_HO_CMD	ACCUMULATION	INT8	ZCH311:Internal Outgoing Cell Handover Commands per BSC	B1275072051.C1278703570	Sum	hubsvbh, hubtvbh
INTRABSC_OUTCELL_HO_REQ	ACCUMULATION	INT8	ZCH310:Internal Outgoing Cell Handover Requests per BSC	B1275072051.C1278703569	Sum	hubsvbh, hubtvbh
INTRABSC_OUTCELL_HO_SUCC	ACCUMULATION	INT8	ZCH313:Successful Internal Outgoing Cell Handovers per BSC	B1275072051.C1278703571	Sum	hubsvbh, hubtvbh
IRAT_IrCell_HOs_T8_exp	ACCUMULATION	INTEGER	ZK3183:Failed Outgoing Inter-RAT Inter-Cell Handovers (T8 Expired) per BSC	B1275072051.C1278703559	Sum	hubsvbh, hubtvbh
O_int_IrC_HO_cmd_dirRty_1800_1800	ACCUMULATION	INTEGER	ZH9111X:Outgoing Internal Inter-Cell Handover Commands (Directed Retry) (1800/1900-1800/1900) per BSC	B1275072051.C1278703451	Sum	hubsvbh, hubtvbh
O_int_IrC_HO_cmd_dirRty_1800_900	ACCUMULATION	INTEGER	ZH9111Z:Outgoing Internal Inter-Cell Handover Commands	B1275072051.C1278703453	Sum	hubsvbh, hubtvbh

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			(Directed Retry) (1800/1900-900/850) per BSC			
O_int_IrC_HO_cmd_dirRty_900_1800	ACCUMULATION	INTEGER	ZH9111Y:Outgoing Internal Inter-Cell Handover Commands (Directed Retry) (900/850-1800/1900) per BSC	B1275072051.C12 78703452	Sum	hubsvbh, hubtvbh
O_int_IrC_HO_cmd_dirRty_900_900	ACCUMULATION	INTEGER	ZH9111W:Outgoing Internal Inter-Cell Handover Commands (Directed Retry) (900/850-900/850) per BSC	B1275072051.C12 78703450	Sum	hubsvbh, hubtvbh
O_int_IrC_HO_cmd_SD_exdirRty_1800_1800	ACCUMULATION	INTEGER	ZH9110X:Outgoing Internal Inter-Cell Handover Commands (SDCCH) (Excluding Directed Retry) (1800/1900-1800/1900) per BSC	B1275072051.C12 78703439	Sum	hubsvbh, hubtvbh
O_int_IrC_HO_cmd_SD_exdirRty_1800_900	ACCUMULATION	INTEGER	ZH9110Z:Outgoing Internal Inter-Cell Handover Commands (SDCCH) (Excluding Directed Retry) (1800/1900-900/850) per BSC	B1275072051.C12 78703441	Sum	hubsvbh, hubtvbh

O_int_IrC_HO_cmd_SD_exdirRty_900_1800	ACCUMULATION	INTEGER	ZH9110Y:Outgoing Internal Inter-Cell Handover Commands (SDCCH) (Excluding Directed Retry) (900/850-1800/1900) per BSC	B1275072051.C12 78703440	Sum	hubsvbh, hubtvbh
O_int_IrC_HO_cmd_SD_exdirRty_900_900	ACCUMULATION	INTEGER	ZH9110W:Outgoing Internal Inter-Cell Handover Command (SDCCH) (Excluding Directed Retry) (900/850-900/850) per BSC	B1275072051.C12 78703438	Sum	hubsvbh, hubtvbh
O_int_IrC_HO_cmd_TCHF_exdirRty_900_900	ACCUMULATION	INTEGER	ZH9117W:Outgoing Internal Inter-Cell Handover Commands (TCHF) (Excluding Directed Retry) (900/850-900/850) per BSC	B1275072051.C12 78703442	Sum	hubsvbh, hubtvbh
O_int_IrC_HO_cmd_TCHH_exdirRty_900_900	ACCUMULATION	INTEGER	ZH9118W:Outgoing Internal Inter-Cell Handover Commands (TCHH) (Excluding Directed Retry) (900/850-900/850) per BSC	B1275072051.C12 78703446	Sum	hubsvbh, hubtvbh

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O_int_IrC_HOcm_TCHF_exdirRty_1800_1800	ACCUMULATION	INTEGER	ZH9117X:Outgoing Internal Inter-Cell Handover Commands (TCHF) (Excluding Directed Retry) (1800/1900-1800/1900) per BSC	B1275072051.C1278703443	Sum	hubsvbh, hubtvbh
O_int_IrC_HOcm_TCHF_exdirRty_1800_900	ACCUMULATION	INTEGER	ZH9117Z:Outgoing Internal Inter-Cell Handover Commands (TCHF) (Excluding Directed Retry) (1800/1900-900/850) per BSC	B1275072051.C1278703445	Sum	hubsvbh, hubtvbh
O_int_IrC_HOcm_TCHF_exdirRty_900_1800	ACCUMULATION	INTEGER	ZH9117Y:Outgoing Internal Inter-Cell Handover Commands (TCHF) (Excluding Directed Retry) (900/850-1800/1900) per BSC	B1275072051.C1278703444	Sum	hubsvbh, hubtvbh
O_int_IrC_HOcm_TCHH_exdirRty_1800_1800	ACCUMULATION	INTEGER	ZH9118X:Outgoing Internal Inter-Cell Handover Commands (TCHH) (Excluding Directed Retry) (1800/1900-1800/1900) per BSC	B1275072051.C1278703447	Sum	hubsvbh, hubtvbh
O_int_IrC_HOcm	ACCUMULATION	INTEGER	ZH9118Z:Outg	B1275072051.C12	Sum	hubsvbh,

m_TCHH_exdir Rty_1800_900	TION	ER	oing Internal Inter-Cell Handover Commands (TCHH) (Excluding Directed Retry) (1800/1900-90 0/850) per BSC	78703449		hubtvbh
O_int_IrC_HOc m_TCHH_exdir Rty_900_1800	ACCUMULA TION	INTEG ER	ZH9118Y:Outg oing Internal Inter-Cell Handover Commands (TCHH) (Excluding Directed Retry) (900/850-1800/ 1900) per BSC	B1275072051.C12 78703448	Sum	hubsvbh, hubtvbh
O_int_IrC_HOr q_dirRty_1800_ 1800	ACCUMULA TION	INTEG ER	ZH9101X:Outg oing Internal Inter-Cell Handover Requests (Directed Retry) (1800/1900-18 00/1900) per BSC	B1275072051.C12 78703435	Sum	hubsvbh, hubtvbh
O_int_IrC_HOr q_dirRty_1800_ 900	ACCUMULA TION	INTEG ER	ZH9101Z:Outg oing Internal Inter-Cell Handover Requests (Directed Retry) (1800/1900-90 0/850) per BSC	B1275072051.C12 78703437	Sum	hubsvbh, hubtvbh
O_int_IrC_HOr	ACCUMULA	INTEG	ZH9101Y:Outg	B1275072051.C12	Sum	hubsvbh,

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q_dirRty_900_1800	TION	ER	oing Internal Inter-Cell Handover Requests (Directed Retry) (900/850-1800/1900) per BSC	78703436		hubtvbh
O_int_IrC_HOrq_dirRty_900_900	ACCUMULATION	INTEGER	ZH9101W:Outgoing Internal Inter-Cell Handover Requests (Directed Retry) (900/850-900/850) per BSC	B1275072051.C1278703434	Sum	hubsvbh, hubtvbh
O_int_IrC_HOrq_SD_exdirRty_1800_1800	ACCUMULATION	INTEGER	ZH9100X:Outgoing Internal Inter-Cell Handover Requests (SDCCH) (Excluding Directed Retry) (1800/1900-1800/1900) per BSC	B1275072051.C1278703423	Sum	hubsvbh, hubtvbh
O_int_IrC_HOrq_SD_exdirRty_1800_900	ACCUMULATION	INTEGER	ZH9100Z:Outgoing Internal Inter-Cell Handover Requests (SDCCH) (Excluding Directed Retry) (1800/1900-900/850) per BSC	B1275072051.C1278703425	Sum	hubsvbh, hubtvbh
O_int_IrC_HOrq_SD_exdirRty_900_1800	ACCUMULATION	INTEGER	ZH9100Y:Outgoing Internal Inter-Cell Handover Requests	B1275072051.C1278703424	Sum	hubsvbh, hubtvbh

			(SDCCH) (Excluding Directed Retry) (900/850-1800/ 1900) per BSC			
O_int_IrC_HOr q_SD_exdirRty _900_900	ACCUMULA TION	INTEG ER	ZH9100W:Out going Internal Inter-Cell Handover Requests (SDCCH) (Excluding Directed Retry) (900/850-900/8 50) per BSC	B1275072051.C12 78703422	Sum	hubsvbh, hubtvbh
O_int_IrC_HOr q_TCHF_exdir Rty_1800_1800	ACCUMULA TION	INTEG ER	ZH9107X:Outg oing Internal Inter-Cell Handover Requests (TCHF) (Excluding Directed Retry) (1800/1900-18 00/1900) per BSC	B1275072051.C12 78703427	Sum	hubsvbh, hubtvbh
O_int_IrC_HOr q_TCHF_exdir Rty_1800_900	ACCUMULA TION	INTEG ER	ZH9107Z:Outg oing Internal Inter-Cell Handover Requests (TCHF) (Excluding Directed Retry) (1800/1900-90 0/850) per BSC	B1275072051.C12 78703429	Sum	hubsvbh, hubtvbh
O_int_IrC_HOr q_TCHF_exdir Rty_900_1800	ACCUMULA TION	INTEG ER	ZH9107Y:Outg oing Internal Inter-Cell	B1275072051.C12 78703428	Sum	hubsvbh, hubtvbh

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			Handover Requests (TCHF) (Excluding Directed Retry) (900/850-1800/1900) per BSC			
O_int_IrC_HOrq_TCHF_exdirRty_900_900	ACCUMULATION	INTEGER	ZH9107W:Outgoing Internal Inter-Cell Handover Requests (TCHF) (Excluding Directed Retry) (900/850-900/850) per BSC	B1275072051.C1278703426	Sum	hubsvbh, hubtvbh
O_int_IrC_HOrq_TCHH_exdirRty_1800_1800	ACCUMULATION	INTEGER	ZH9108X:Outgoing Internal Inter-Cell Handover Requests (TCHH) (Excluding Directed Retry) (1800/1900-1800/1900) per BSC	B1275072051.C1278703431	Sum	hubsvbh, hubtvbh
O_int_IrC_HOrq_TCHH_exdirRty_1800_900	ACCUMULATION	INTEGER	ZH9108Z:Outgoing Internal Inter-Cell Handover Requests (TCHH) (Excluding Directed Retry) (1800/1900-900/850) per BSC	B1275072051.C1278703433	Sum	hubsvbh, hubtvbh
O_int_IrC_HOrq_TCHH_exdirRty_900_1800	ACCUMULATION	INTEGER	ZH9108Y:Outgoing Internal Inter-Cell Handover Requests	B1275072051.C1278703432	Sum	hubsvbh, hubtvbh

			(TCHH) (Excluding Directed Retry) (900/850-1800/ 1900) per BSC			
O_int_IrC_HOr q_TCHH_exdir Rty_900_900	ACCUMULA TION	INTEG ER	ZH9108W:Out going Internal Inter-Cell Handover Requests (TCHH) (Excluding Directed Retry) (900/850-900/8 50) per BSC	B1275072051.C12 78703430	Sum	hubsvbh, hubtvbh

### 7.5.39 BSC.Huawei.GSM.Handover\_kpi\_overview

handovers overview

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
INTERBSC_O UTCELL_HO_ FAIL	ACCUMULA TION	INT8	ZCH333F:Faile d External Outgoing Cell Handovers per BSC	B1275072051.C12 78703596	Sum	hubsvbh, hubtvbh
INTRABSC_O UTCELL_HO_ FAIL	ACCUMULA TION	INT8	ZCH313F:Faile d Internal Outgoing Cell Handovers per BSC	B1275072051.C12 78703595	Sum	hubsvbh, hubtvbh
KPI_DUBAND _HO_FAIL	ACCUMULA TION	INT8	ZK3173F:Faile d Dual-Band Handovers per BSC	B1275072051.C12 78703597	Sum	hubsvbh, hubtvbh
KPI_DUBAND	ACCUMULA	INT8	ZK3170:Dual-	B1275072051.C12	Sum	hubsvbh,

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_HO_REQ	TION		Band Handover Requests per BSC	78703581		hubtvbh
KPI_DUBAND_HO_SUCC_RATE	INTENSITY	FLOAT	ZK3182: Dual-Band Handover Success Ratio per BSC	B1275072051.C12 78703594	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
KPI_DUBAND_HO_SUCC	ACCUMULATION	INT8	ZK3173: Successful Dual-Band Handovers per BSC	B1275072051.C12 78703582	Sum	hubsvbh, hubtvbh
KPI_HO_SUCC_RATE	INTENSITY	FLOAT	ZK3180: Handover Success Ratio per BSC	B1275072051.C12 78703592	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
KPI_INTRABSC_HO_SUCC_RATE	INTENSITY	FLOAT	ZK3174: Intra Band Handover Success Ratio per BSC	B1275072051.C12 78703586	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
KPI_INTRABSC_WLESS_HO_SUC_RATE	INTENSITY	FLOAT	ZK3175: Radio Handover Success Ratio per BSC	B1275072051.C12 78703587	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
KPI_WIRELESS_HO_SUCC_RATE	INTENSITY	FLOAT	ZK3181: Radio Handover Success Ratio per BSC	B1275072051.C12 78703593	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum

**7.5.40 BSC.Huawei.GSM.Handover\_success\_per\_cause**

Handover successes per cause

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
HO_SUCC_AMR	ACCUMULATION	INT8	ZH9035:Successful Handovers per BSC (Intra-Cell TCHF-to-TCHH Handover)	B1275072049.C1278701458	Sum	hubsvbh, hubtvbh
HO_SUCC_BETTER_CELL	ACCUMULATION	INT8	ZCH973F:Successful Handovers per BSC (Better Cell)	B1275072049.C1278701450	Sum	hubsvbh, hubtvbh
HO_SUCC_DL_QLTY	ACCUMULATION	INT8	ZCH973B:Successful Handovers per BSC (Downlink Signal Quality)	B1275072049.C1278701446	Sum	hubsvbh, hubtvbh
HO_SUCC_DL_RXL	ACCUMULATION	INT8	ZCH973D:Successful Handovers per BSC (Downlink Signal Strength)	B1275072049.C1278701448	Sum	hubsvbh, hubtvbh
HO_SUCC_DR	ACCUMULATION	INT8	ZH9731:Successful Handovers per BSC (Directed Retry)	B1275072049.C1278701459	Sum	hubsvbh, hubtvbh
HO_SUCC_LOAD	ACCUMULATION	INT8	ZCH973G:Successful Handovers per BSC (Load)	B1275072049.C1278701451	Sum	hubsvbh, hubtvbh
HO_SUCC_M	ACCUMULATION	INT8	ZCH973I:Succe	B1275072049.C127	Sum	hubsvbh,

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SC_INTERV	TION		ssful Handovers per BSC (MSC Intervention)	8701453		hubtvbh
HO_SUCC_OLCELL_ULCELL	ACCUMULATION	INT8	ZH9031:Successful Handovers per BSC (Overlaid Subcell to Underlaid Subcell)	B1275072049.C1278701457	Sum	hubsvbh, hubtvbh
HO_SUCC_OM_INTERV	ACCUMULATION	INT8	ZCH973J:Successful Handovers per BSC (OM Intervention)	B1275072049.C1278701454	Sum	hubsvbh, hubtvbh
HO_SUCC_OTHER	ACCUMULATION	INT8	ZCH973L:Successful Handovers per BSC (Other Causes)	B1275072049.C1278701455	Sum	hubsvbh, hubtvbh
HO_SUCC_RAPID_LEV_DROP	ACCUMULATION	INT8	ZCH973H:Successful Handovers per BSC (Rapid Level Drop)	B1275072049.C1278701452	Sum	hubsvbh, hubtvbh
HO_SUCC_TA	ACCUMULATION	INT8	ZCH973E:Successful Handovers per BSC (Timing Advance)	B1275072049.C1278701449	Sum	hubsvbh, hubtvbh
HO_SUCC_UL_QLTY	ACCUMULATION	INT8	ZCH973A:Successful Handovers per BSC (Uplink Signal Quality)	B1275072049.C1278701445	Sum	hubsvbh, hubtvbh
HO_SUCC_UL_RXL	ACCUMULATION	INT8	ZCH973C:Successful Handovers per BSC (Uplink Signal Strength)	B1275072049.C1278701447	Sum	hubsvbh, hubtvbh
HO_SUCC_ULCELL_OLCELL	ACCUMULATION	INT8	ZH9032:Successful Handovers	B1275072049.C1278701456	Sum	hubsvbh, hubtvbh

L			per BSC (Underlaid Subcell to Overlaid Subcell)			
TOT_SUCC_H O	ACCUMULA TION	INT8	Total Successful Handovers per BSC	B1275072049.C127 8701445 + C1278701446 + C1278701447 + C1278701448 + C1278701449 + C1278701450 + C1278701451 + C1278701452 + C1278701453 + C1278701454 + C1278701455 + C1278701456 + C1278701457 + C1278701458 + C1278701459	Sum	hubsvbh, hubtvbh

### 7.5.41 BSC.Huawei.GSM.Interfrequency\_band

Inter frequency band handovers

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
INBSC_HO_RE Q_1800_900	ACCUMULA TION	INT8	ZCH940Z:Atte mpted Incoming BSC Handovers per BSC (1800/1900 to 900/850)	B1275072050.C127 8702422	Sum	hubsvbh, hubtvbh
INBSC_HO_RE Q_900_1800	ACCUMULA TION	INT8	ZCH940Y:Atte mpted Incoming BSC	B1275072050.C127 8702421	Sum	hubsvbh, hubtvbh

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			Handovers per BSC (900/850 to 1800/1900)			
INBSC_HO_SUCC_1800_900	ACCUMULATION	INT8	ZCH943Z:Successful Incoming BSC Handovers per BSC (1800/1900 to 900/850)	B1275072050.C1278702424	Sum	hubsvbh, hubtvbh
INBSC_HO_SUCC_900_1800	ACCUMULATION	INT8	ZCH943Y:Successful Incoming BSC Handovers per BSC (900/850 to 1800/1900)	B1275072050.C1278702423	Sum	hubsvbh, hubtvbh
INTRABSC_HO_REQ_1800_900	ACCUMULATION	INT8	ZCH900Z:Attempted Internal Inter-Cell Handovers per BSC (1800/1900 to 900/850)	B1275072050.C1278702418	Sum	hubsvbh, hubtvbh
INTRABSC_HO_REQ_900_1800	ACCUMULATION	INT8	ZCH900Y:Attempted Internal Inter-Cell Handovers per BSC (900/850 to 1800/1900)	B1275072050.C1278702417	Sum	hubsvbh, hubtvbh
INTRABSC_HO_SUCC_1800_900	ACCUMULATION	INT8	ZCH903Z:Successful Internal Inter-Cell Handovers per BSC (1800/1900 to 900/850)	B1275072050.C1278702420	Sum	hubsvbh, hubtvbh
INTRABSC_HO_SUCC_900_1800	ACCUMULATION	INT8	ZCH903Y:Successful Internal Inter-Cell Handovers per BSC (900/850 to 1800/1900)	B1275072050.C1278702419	Sum	hubsvbh, hubtvbh

OUTBSC_HO_REQ_1800_900	ACCUMULATION	INT8	ZCH930Z: Attempted Outgoing BSC Handovers per BSC (1800/1900 to 900/850)	B1275072050.C1278702426	Sum	hubsvbh, hubtvbh
OUTBSC_HO_REQ_900_1800	ACCUMULATION	INT8	ZCH930Y: Attempted Outgoing BSC Handovers per BSC (900/850 to 1800/1900)	B1275072050.C1278702425	Sum	hubsvbh, hubtvbh
OUTBSC_HO_SUCC_1800_900	ACCUMULATION	INT8	ZCH933Z: Successful Outgoing BSC Handovers per BSC (1800/1900 to 900/850)	B1275072050.C1278702428	Sum	hubsvbh, hubtvbh
OUTBSC_HO_SUCC_900_1800	ACCUMULATION	INT8	ZCH933Y: Successful Outgoing BSC Handovers per BSC (900/850 to 1800/1900)	B1275072050.C1278702427	Sum	hubsvbh, hubtvbh

#### 7.5.42 BSC.Huawei.GSM.Number\_of\_MRs

number of MRs on uplink and downlink for each mean Receive Quality Rank

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
FR_DOWN_RX_QLTY_0_AVR	ACCUMULATION	INT8	ZS4180SB: Number of MRs on Downlink TCHF (Mean Receive Quality Rank 0) per BSC	B1275072054.C1278706457	Sum	hubsvbh, hubtvbh

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FR_DOWN_RX_QLTY_1_AVR	ACCUMULATION	INT8	ZS4181SB: Number of MRs on Downlink TCHF (Mean Receive Quality Rank 1) per BSC	B1275072054.C1278706458	Sum	hubsvbh, hubtvbh
FR_DOWN_RX_QLTY_2_AVR	ACCUMULATION	INT8	ZS4182SB: Number of MRs on Downlink TCHF (Mean Receive Quality Rank 2) per BSC	B1275072054.C1278706459	Sum	hubsvbh, hubtvbh
FR_DOWN_RX_QLTY_3_AVR	ACCUMULATION	INT8	ZS4183SB: Number of MRs on Downlink TCHF (Mean Receive Quality Rank 3) per BSC	B1275072054.C1278706460	Sum	hubsvbh, hubtvbh
FR_DOWN_RX_QLTY_4_AVR	ACCUMULATION	INT8	ZS4184SB: Number of MRs on Downlink TCHF (Mean Receive Quality Rank 4) per BSC	B1275072054.C1278706461	Sum	hubsvbh, hubtvbh
FR_DOWN_RX_QLTY_5_AVR	ACCUMULATION	INT8	ZS4185SB: Number of MRs on Downlink TCHF (Mean Receive Quality Rank 5) per BSC	B1275072054.C1278706462	Sum	hubsvbh, hubtvbh
FR_DOWN_RX_QLTY_6_AVR	ACCUMULATION	INT8	ZS4186SB: Number of MRs on Downlink TCHF (Mean Receive Quality Rank 6) per BSC	B1275072054.C1278706463	Sum	hubsvbh, hubtvbh

FR_DOWN_RX_Q LTY_7_AVR	ACCUMULATION	INT8	ZS4187SB: Number of MRs on Downlink TCHF (Mean Receive Quality Rank 7) per BSC	B1275072054.C127 8706464	Sum	hubsvbh, hubtvbh
FR_UP_RX_Q LTY_0_AVR	ACCUMULATION	INT8	ZS4180SA: Number of MRs on Uplink TCHF (Mean Receive Quality Rank 0) per BSC	B1275072054.C127 8706449	Sum	hubsvbh, hubtvbh
FR_UP_RX_Q LTY_1_AVR	ACCUMULATION	INT8	ZS4181SA: Number of MRs on Uplink TCHF (Mean Receive Quality Rank 1) per BSC	B1275072054.C127 8706450	Sum	hubsvbh, hubtvbh
FR_UP_RX_Q LTY_2_AVR	ACCUMULATION	INT8	ZS4182SA: Number of MRs on Uplink TCHF (Mean Receive Quality Rank 2) per BSC	B1275072054.C127 8706451	Sum	hubsvbh, hubtvbh
FR_UP_RX_Q LTY_3_AVR	ACCUMULATION	INT8	ZS4183SA: Number of MRs on Uplink TCHF (Mean Receive Quality Rank 3) per BSC	B1275072054.C127 8706452	Sum	hubsvbh, hubtvbh
FR_UP_RX_Q LTY_4_AVR	ACCUMULATION	INT8	ZS4184SA: Number of MRs on Uplink TCHF (Mean Receive Quality Rank 4) per BSC	B1275072054.C127 8706453	Sum	hubsvbh, hubtvbh
FR_UP_RX_Q	ACCUMULATION	INT8	ZS4185SA: Nu	B1275072054.C127	Sum	hubsvbh,

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LTY_5_AVR	TION		mber of MRs on Uplink TCHF (Mean Receive Quality Rank 5) per BSC	8706454		hubtvbh
FR_UP_RX_Q LTY_6_AVR	ACCUMULATION	INT8	ZS4186SA: Number of MRs on Uplink TCHF (Mean Receive Quality Rank 6) per BSC	B1275072054.C127 8706455	Sum	hubsvbh, hubtvbh
FR_UP_RX_Q LTY_7_AVR	ACCUMULATION	INT8	ZS4187SA: Number of MRs on Uplink TCHF (Mean Receive Quality Rank 7) per BSC	B1275072054.C127 8706456	Sum	hubsvbh, hubtvbh
HR_DOWN_RX_Q LTY_0_AVR	ACCUMULATION	INT8	ZS4180SD: Number of MRs on Downlink TCHF (Mean Receive Quality Rank 0) per BSC	B1275072054.C127 8706473	Sum	hubsvbh, hubtvbh
HR_DOWN_RX_Q LTY_1_AVR	ACCUMULATION	INT8	ZS4181SD: Number of MRs on Downlink TCHF (Mean Receive Quality Rank 1) per BSC	B1275072054.C127 8706474	Sum	hubsvbh, hubtvbh
HR_DOWN_RX_Q LTY_2_AVR	ACCUMULATION	INT8	ZS4182SD: Number of MRs on Downlink TCHF (Mean Receive Quality Rank 2) per BSC	B1275072054.C127 8706475	Sum	hubsvbh, hubtvbh
HR_DOWN_RX_Q LTY_3_AVR	ACCUMULATION	INT8	ZS4183SD: Number of MRs on Downlink TCHF (Mean	B1275072054.C127 8706476	Sum	hubsvbh, hubtvbh

			Receive Quality Rank 3) per BSC			
HR_DOWN_RX_QTY_4_AVR	ACCUMULATION	INT8	ZS4184SD: Number of MRs on Downlink TCHH (Mean Receive Quality Rank 4) per BSC	B1275072054.C1278706477	Sum	hubsvbh, hubtvbh
HR_DOWN_RX_QTY_5_AVR	ACCUMULATION	INT8	ZS4185SD: Number of MRs on Downlink TCHH (Mean Receive Quality Rank 5) per BSC	B1275072054.C1278706478	Sum	hubsvbh, hubtvbh
HR_DOWN_RX_QTY_6_AVR	ACCUMULATION	INT8	ZS4186SD: Number of MRs on Downlink TCHH (Mean Receive Quality Rank 6) per BSC	B1275072054.C1278706479	Sum	hubsvbh, hubtvbh
HR_DOWN_RX_QTY_7_AVR	ACCUMULATION	INT8	ZS4187SD: Number of MRs on Downlink TCHH (Mean Receive Quality Rank 7) per BSC	B1275072054.C1278706480	Sum	hubsvbh, hubtvbh
HR_UP_RX_QTY_0_AVR	ACCUMULATION	INT8	ZS4180SC: Number of MRs on Uplink TCHH (Mean Rank of Receive Quality 0) per BSC	B1275072054.C1278706465	Sum	hubsvbh, hubtvbh
HR_UP_RX_QTY_0_AVR	ACCUMULATION	INT8	ZS4181SC: Num	B1275072054.C127	Sum	hubsvbh,

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LTY_1_AVR	TION		ber of MRs on Uplink TCHH (Mean Receive Quality Rank 1) per BSC	8706466		hubtvbh
HR_UP_RX_Q LTY_2_AVR	ACCUMULATION	INT8	ZS4182SC:Num ber of MRs on Uplink TCHH (Mean Receive Quality Rank 2) per BSC	B1275072054.C127 8706467	Sum	hubsvbh, hubtvbh
HR_UP_RX_Q LTY_3_AVR	ACCUMULATION	INT8	ZS4183SC:Num ber of MRs on Uplink TCHH (Mean Receive Quality Rank 3) per BSC	B1275072054.C127 8706468	Sum	hubsvbh, hubtvbh
HR_UP_RX_Q LTY_4_AVR	ACCUMULATION	INT8	ZS4184SC:Num ber of MRs on Uplink TCHH (Mean Receive Quality Rank 4) per BSC	B1275072054.C127 8706469	Sum	hubsvbh, hubtvbh
HR_UP_RX_Q LTY_5_AVR	ACCUMULATION	INT8	ZS4185SC:Num ber of MRs on Uplink TCHH (Mean Receive Quality Rank 5) per BSC	B1275072054.C127 8706470	Sum	hubsvbh, hubtvbh
HR_UP_RX_Q LTY_6_AVR	ACCUMULATION	INT8	ZS4186SC:Num ber of MRs on Uplink TCHH (Mean Receive Quality Rank 6) per BSC	B1275072054.C127 8706471	Sum	hubsvbh, hubtvbh
HR_UP_RX_Q LTY_7_AVR	ACCUMULATION	INT8	ZS4187SC:Num ber of MRs on Uplink TCHH (Mean Receive Quality Rank 7) per BSC	B1275072054.C127 8706472	Sum	hubsvbh, hubtvbh

**7.5.43 BSC.Huawei.GSM.Packet\_access\_capability**

Measurement on packet access performance of the BSC.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
_11BIT_ONE_PHASE_ACS_RQ_RCV_RACH	ACCUMULATION	INT8	ZA9405: Number of 11-Bit One Phase Access Requests Received on RACH per BSC	B1275072057.C1278709421	Sum	
_11BIT_PKT_CHNL_RQ_RCV_CCCH	ACCUMULATION	INT8	ZA9404: Number of 11-Bit Packet Channel Requests Received on CCCH per BSC	B1275072057.C1278709420	Sum	
_11BIT_SINGLE_BLK_CHNL_RQ_RCV_RACH	ACCUMULATION	INT8	ZA9406: Number of 11-Bit Single Block Channel Requests Received on RACH per BSC	B1275072057.C1278709422	Sum	
_8BIT_ONE_PHASE_ACS_RQ_RCV_RACH	ACCUMULATION	INT8	ZA9402: Number of 8-Bit One Phase Access Requests Received on RACH per BSC	B1275072057.C1278709418	Sum	
_8BIT_PKT_CHNL_RQ_RCV_ON_CCCH	ACCUMULATION	INT8	ZA9401: Number of 8-Bit Packet Channel Requests Received on CCCH per BSC	B1275072057.C1278709417	Sum	
_8BIT_SINGL	ACCUMULATION	INT8	ZA9403: Numbe	B1275072057.C127	Sum	

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E_BLK_CHNL_RQ_RCV_RACH	ACCUMULATION		Number of 8-Bit Single Block Channel Requests Received on RACH per BSC	8709419		
PKT_CHNL_RQ_RCV_PCCCH	ACCUMULATION	INT8	ZA9408: Number of Packet Channel Requests Received on PCCCH per BSC	B1275072057.C127 8709423	Sum	
RES_RQ_RCV_DL_PACCH	ACCUMULATION	INT8	ZA9411: Number of Resource Requests Received on Downlink PACCH per BSC	B1275072057.C127 8709425	Sum	
RES_RQ_RCV_UL_PACCH	ACCUMULATION	INT8	ZA9410: Number of Resource Requests Received on Uplink PACCH per BSC	B1275072057.C127 8709424	Sum	

#### 7.5.44 BSC.Huawei.GSM.Packet\_Assignment\_Capability

Measurement on packet assignment performance of the BSC.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
DL_ASG_ON_PACCH	ACCUMULATION	INT8	ZA9511: Number of Downlink Assignments on PACCH per BSC	B1275072058.C12 78710427	Sum	
DL_ASG	ACCUMULATION	INT8	ZA9507: Number of Downlink Assignments per BSC	B1275072058.C12 78710423	Sum	

DL_PS_IMMEDIATE_ASG	ACCUMULATION	INT8	ZA9509: Number of Downlink PS Immediate Assignments per BSC	B1275072058.C12 78710425	Sum	
SUCC_DL_ASG_ON_PACCH	ACCUMULATION	INT8	ZA9512: Number of Successful Downlink Assignments on PACCH per BSC	B1275072058.C12 78710428	Sum	
SUCC_DL_ASG	ACCUMULATION	INT8	ZA9508: Number of Successful Downlink Assignments per BSC	B1275072058.C12 78710424	Sum	
SUCC_DL_PS_IMMEDIATE_ASG	ACCUMULATION	INT8	ZA9510: Number of Successful Downlink PS Immediate Assignments per BSC	B1275072058.C12 78710426	Sum	
SUCC_UL_ASG_ON_PACCH	ACCUMULATION	INT8	ZA9506: Number of Successful Uplink Assignments on PACCH per BSC	B1275072058.C12 78710422	Sum	
SUCC_UL_ASG	ACCUMULATION	INT8	ZA9502: Number of Successful Uplink Assignments per BSC	B1275072058.C12 78710418	Sum	
SUCC_UL_PS_IMMEDIATE_ASG	ACCUMULATION	INT8	ZA9504: Number of Successful Uplink PS Immediate Assignments	B1275072058.C12 78710420	Sum	

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			per BSC			
UL_ASG_ON_PACCH	ACCUMULATION	INT8	ZA9505: Number of Uplink Assignments on PACCH per BSC	B1275072058.C1278710421	Sum	
UL_ASG	ACCUMULATION	INT8	ZA9501: Number of Uplink Assignments per BSC	B1275072058.C1278710417	Sum	
UL_PS_IMMEDIATE_ASG	ACCUMULATION	INT8	ZA9503: Number of Uplink PS Immediate Assignments per BSC	B1275072058.C1278710419	Sum	

#### 7.5.45 BSC.Huawei.GSM.Packet\_transfer\_capability

Measurement on transmission performance of the BSC.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
BYTE_DL_EGPRS_BKGNDDLLC_PDU_TX	ACCUMULATION	INT8	ZL9514: Total Bytes of Downlink EGPRS Background Service LLC PDUs Sent per BSC	B1275072060.C1278712482	Sum	
BYTE_DL_EGPRS_I_THP1_LLC_PDU_TX	ACCUMULATION	INT8	ZL9515: Total Bytes of Downlink EGPRS Interactive Service THP1 LLC PDUs Sent per BSC	B1275072060.C1278712483	Sum	
BYTE_DL_EGPRS_I_THP2_LLC_PDU_TX	ACCUMULATION	INT8	ZL9535: Total Bytes of Downlink	B1275072060.C1278712484	Sum	

			EGPRS Interactive Service THP2 LLC PDUs Sent per BSC			
BYTE_DL_EGPRS_I_THP3_LLC_PDU_TX	ACCUMULATION	INT8	ZL9536:Total Bytes of Downlink EGPRS Interactive Service THP3 LLC PDUs Sent per BSC	B1275072060.C12 78712485	Sum	
BYTE_DL_EGPRS_STRM_LLC_PDU_TX	ACCUMULATION	INT8	ZL9516:Total Bytes of Downlink EGPRS Streaming Service LLC PDUs Sent per BSC	B1275072060.C12 78712486	Sum	
BYTE_DL_GPRS_BKGND_LLC_PDU_TX	ACCUMULATION	INT8	ZL9511:Total Bytes of Downlink GPRS Background Service LLC PDUs Sent per BSC	B1275072060.C12 78712477	Sum	
BYTE_DL_GPRS_I_THP1_LLC_PDU_TX	ACCUMULATION	INT8	ZL9512:Total Bytes of Downlink GPRS Interactive Service THP1 LLC PDUs Sent per BSC	B1275072060.C12 78712478	Sum	
BYTE_DL_GPRS	ACCUMULATION	INT8	ZL9533:Total	B1275072060.C12	Sum	

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S_I_THP2_LLC_PDU_TX	TION		Bytes of Downlink GPRS Interactive Service THP2 LLC PDUs Sent per BSC	78712479		
BYTE_DL_GPRS_I_THP3_LLC_PDU_TX	ACCUMULATION	INT8	ZL9534:Total Bytes of Downlink GPRS Interactive Service THP3 LLC PDUs Sent per BSC	B1275072060.C12 78712480	Sum	
BYTE_DL_GPRS_STRM_LLC_PDU_TX	ACCUMULATION	INT8	ZL9513:Total Bytes of Downlink GPRS Streaming Service LLC PDUs Sent per BSC	B1275072060.C12 78712481	Sum	
BYTE_LLC_PDU_TX	ACCUMULATION	INT8	ZL9506:Total Bytes of LLC PDUs Sent per BSC	B1275072060.C12 78712476	Sum	
BYTE_UL_EGPRS_BKGND_LLC_PDU_TX	ACCUMULATION	INT8	ZL9410:Total Bytes of Uplink EGPRS Background Service LLC PDUs Sent per BSC	B1275072060.C12 78712454	Sum	
BYTE_UL_EGPRS_I_THP1_LLC_PDU_TX	ACCUMULATION	INT8	ZL9411:Total Bytes of Uplink EGPRS Interactive Service THP1 LLC PDUs Sent per BSC	B1275072060.C12 78712455	Sum	
BYTE_UL_EGPRS	ACCUMULATION	INT8	ZL9431:Total	B1275072060.C12	Sum	

RS_I_THP2_LLC_PDU_TX	TION		Bytes of Uplink EGPRS Interactive Service THP2 LLC PDUs Sent per BSC	78712456		
BYTE_UL_EGPRS_I_THP3_LLC_PDU_TX	ACCUMULATION	INT8	ZL9432:Total Bytes of Uplink EGPRS Interactive Service THP3 LLC PDUs Sent per BSC	B1275072060.C12 78712457	Sum	
BYTE_UL_GPRS_I_THP1_LLC_PDU_TX	ACCUMULATION	INT8	ZL9408:Total Bytes of Uplink GPRS Interactive Service THP1 LLC PDUs Sent per BSC	B1275072060.C12 78712450	Sum	
BYTE_UL_GPRS_I_THP2_LLC_PDU_TX	ACCUMULATION	INT8	ZL9429:Total Bytes of Uplink GPRS Interactive Service THP2 LLC PDUs Sent per BSC	B1275072060.C12 78712451	Sum	
BYTE_UL_GPRS_I_THP3_LLC_PDU_TX	ACCUMULATION	INT8	ZL9430:Total Bytes of Uplink GPRS Interactive Service THP3 LLC PDUs Sent per BSC	B1275072060.C12 78712452	Sum	
NUM_OF_LLC_PDU_TX	ACCUMULATION	INT8	ZL9505:Total Number of LLC PDUs Sent per BSC	B1275072060.C12 78712475	Sum	

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THROUGHPUT _DL_EGPRS_R LC_DATA_BLK	INTENSITY	INT8	ZTL9338:Thro ughput of Downlink EGPRS RLC Data Blocks per BSC	B1275072060.C12 78712446	Average	Sum, Minimu m, Maximu m
THROUGHPUT _DL_GPRS_RL C_DATA_BLK	INTENSITY	INT8	ZTL9123:Thro ughput of Downlink GPRS RLC Data Blocks per BSC	B1275072060.C12 78712444	Average	Sum, Minimu m, Maximu m
THROUGHPUT _UL_EGPRS_R LC_DATA_BLK	INTENSITY	INT8	ZTL9237:Thro ughput of Uplink EGPRS RLC Data Blocks per BSC	B1275072060.C12 78712445	Average	Sum, Minimu m, Maximu m
THROUGHPUT _UL_GPRS_RL C_DATA_BLK	INTENSITY	INT8	ZTL9023:Thro ughput of Uplink GPRS RLC Data Blocks per BSC	B1275072060.C12 78712443	Average	Sum, Minimu m, Maximu m
TOT_BYTE_UL _EGPRS_STRM _LLC_PDU_TX	ACCUMULA TION	INT8	ZL9412:Total Bytes of Uplink EGPRS Streaming Service LLC PDUs Sent per BSC	B1275072060.C12 78712458	Sum	
TOT_BYTE_UL _GPRS_BKGND _LLC_PDU_TX	ACCUMULA TION	INT8	ZL9407:Total Bytes of Uplink GPRS Background Service LLC PDUs Sent per BSC	B1275072060.C12 78712449	Sum	
TOT_BYTE_UL _GPRS_STRM _LLC_PDU_TX	ACCUMULA TION	INT8	ZL9409:Total Bytes of Uplink GPRS Streaming Service LLC PDUs Sent per	B1275072060.C12 78712453	Sum	

			BSC			
TOT_BYTE_UL_LL_C_PDU_TX	ACCUMULATION	INT8	ZL9403:Total Bytes of Uplink LLC PDUs Sent per BSC	B1275072060.C1278712448	Sum	
TOT_DL_CS_RLC_BLK	ACCUMULATION	INT8	Total Number of Downlink RLC Data Blocks Using CS per BSC	B1275072060.C1278712421 + C1278712422 + C1278712423 + C1278712424	Sum	
TOT_DL_EGPRS_MCS1_RLC_DATA_BLK	ACCUMULATION	INT8	ZL9302:Total Number of Downlink EGPRS MCS1 RLC Data Blocks per BSC	B1275072060.C1278712434	Sum	
TOT_DL_EGPRS_MCS2_RLC_DATA_BLK	ACCUMULATION	INT8	ZL9303:Total Number of Downlink EGPRS MCS2 RLC Data Blocks per BSC	B1275072060.C1278712435	Sum	
TOT_DL_EGPRS_MCS3_RLC_DATA_BLK	ACCUMULATION	INT8	ZL9304:Total Number of Downlink EGPRS MCS3 RLC Data Blocks per BSC	B1275072060.C1278712436	Sum	
TOT_DL_EGPRS_MCS4_RLC_DATA_BLK	ACCUMULATION	INT8	ZL9305:Total Number of Downlink EGPRS MCS4 RLC Data Blocks per BSC	B1275072060.C1278712437	Sum	
TOT_DL_EGPRS_MCS5_RLC_DATA_BLK	ACCUMULATION	INT8	ZL9306:Total Number of Downlink	B1275072060.C1278712438	Sum	

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			EGPRS MCS5 RLC Data Blocks per BSC			
TOT_DL_EGPRS_MCS6_RLC_DATA_BLK	ACCUMULATION	INT8	ZL9307:Total Number of Downlink EGPRS MCS6 RLC data blocks per BSC	B1275072060.C12 78712439	Sum	
TOT_DL_EGPRS_MCS7_RLC_DATA_BLK	ACCUMULATION	INT8	ZL9308:Total Number of Downlink EGPRS MCS7 RLC Data Blocks per BSC	B1275072060.C12 78712440	Sum	
TOT_DL_EGPRS_MCS8_RLC_DATA_BLK	ACCUMULATION	INT8	ZL9309:Total Number of Downlink EGPRS MCS8 RLC Data Blocks per BSC	B1275072060.C12 78712441	Sum	
TOT_DL_EGPRS_MCS9_RLC_DATA_BLK	ACCUMULATION	INT8	ZL9310:Total Number of Downlink EGPRS MCS9 RLC Data Blocks per BSC	B1275072060.C12 78712442	Sum	
TOT_DL_EGPRS_RLC_BLK	ACCUMULATION	INT8	Total Number of Downlink EGPRS MCS RLC Data Blocks per BSC	B1275072060.C12 78712434 + C1278712435 + C1278712436 + C1278712437 + C1278712438 + C1278712439 + C1278712440 + C1278712441 + C1278712442	Sum	
TOT_DL_RLC_DATA_BLK_S1	ACCUMULATION	INT8	ZL9102:Total Number of Downlink RLC Data Blocks Using CS1 per	B1275072060.C12 78712421	Sum	

			BSC			
TOT_DL_RLC_DATA_BLK_S2	ACCUMULATION	INT8	ZL9103:Total Number of Downlink RLC Data Blocks Using CS2 per BSC	B1275072060.C12 78712422	Sum	
TOT_DL_RLC_DATA_BLK_S3	ACCUMULATION	INT8	ZL9104:Total Number of Downlink RLC Data Blocks Using CS3 per BSC	B1275072060.C12 78712423	Sum	
TOT_DL_RLC_DATA_BLK_S4	ACCUMULATION	INT8	ZL9105:Total Number of Downlink RLC Data Blocks Using CS4 per BSC	B1275072060.C12 78712424	Sum	
TOT_UL_CS_RLC_BLK	ACCUMULATION	INT8	Total Number of Uplink RLC Data Blocks Using CS per BSC	B1275072060.C12 78712417 + C1278712418 + C1278712419 + C1278712420	Sum	
TOT_UL_EGPRS_MCS1_RLC_DATA_BLK	ACCUMULATION	INT8	ZL9202:Total Number of Uplink EGPRS MCS1 RLC Data Blocks per BSC	B1275072060.C12 78712425	Sum	
TOT_UL_EGPRS_MCS2_RLC_DATA_BLK	ACCUMULATION	INT8	ZL9203:Total Number of Uplink EGPRS MCS2 RLC Data Blocks per BSC	B1275072060.C12 78712426	Sum	
TOT_UL_EGPR	ACCUMULATION	INT8	ZL9204:Total	B1275072060.C12	Sum	

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S_MCS3_RLC_DATA_BLK	TION		Number of Uplink EGPRS MCS3 RLC Data Blocks per BSC	78712427		
TOT_UL_EGPRS_MCS4_RLC_DATA_BLK	ACCUMULATION	INT8	ZL9205:Total Number of Uplink EGPRS MCS4 RLC Data Blocks per BSC	B1275072060.C12 78712428	Sum	
TOT_UL_EGPRS_MCS5_RLC_DATA_BLK	ACCUMULATION	INT8	ZL9206:Total Number of Uplink EGPRS MCS5 RLC Data Blocks per BSC	B1275072060.C12 78712429	Sum	
TOT_UL_EGPRS_MCS6_RLC_DATA_BLK	ACCUMULATION	INT8	ZL9207:Total Number of Uplink EGPRS MCS6 RLC Data Blocks per BSC	B1275072060.C12 78712430	Sum	
TOT_UL_EGPRS_MCS7_RLC_DATA_BLK	ACCUMULATION	INT8	ZL9208:Total Number of Uplink EGPRS MCS7 RLC Data Blocks per BSC	B1275072060.C12 78712431	Sum	
TOT_UL_EGPRS_MCS8_RLC_DATA_BLK	ACCUMULATION	INT8	ZL9209:Total Number of Uplink EGPRS MCS8 RLC Data Blocks per BSC	B1275072060.C12 78712432	Sum	
TOT_UL_EGPRS_MCS9_RLC_DATA_BLK	ACCUMULATION	INT8	ZL9210:Total Number of Uplink EGPRS MCS9 RLC Data Blocks per BSC	B1275072060.C12 78712433	Sum	

TOT_UL_EGPRS_RLC_BLK	ACCUMULATION	INT8	Total Number of Uplink EGPRS MCS RLC Data Blocks per BSC	B1275072060.C1278712425 + C1278712426 + C1278712427 + C1278712428 + C1278712429 + C1278712430 + C1278712431 + C1278712432 + C1278712433	Sum	
TOT_UL_RLC_DATA_BLK_CS1	ACCUMULATION	INT8	ZL9002:Total Number of Uplink RLC Data Blocks Using CS1 per BSC	B1275072060.C1278712417	Sum	
TOT_UL_RLC_DATA_BLK_CS2	ACCUMULATION	INT8	ZL9003:Total Number of Uplink RLC Data Blocks Using CS2 per BSC	B1275072060.C1278712418	Sum	
TOT_UL_RLC_DATA_BLK_CS3	ACCUMULATION	INT8	ZL9004:Total Number of Uplink RLC Data Blocks Using CS3 per BSC	B1275072060.C1278712419	Sum	
TOT_UL_RLC_DATA_BLK_CS4	ACCUMULATION	INT8	ZL9005:Total Number of Uplink RLC Data Blocks Using CS4 per BSC	B1275072060.C1278712420	Sum	
TX_DUR_DL_EGPRS_BKGND_SVC	ACCUMULATION	INT8	ZL9557:Total Transmission Duration of Downlink	B1275072060.C1278712499	Sum	

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			EGPRS Background Service per BSC			
TX_DUR_DL_E GPRS_I_THP1	ACCUMULA TION	INT8	ZL9558:Total Transmission Duration of Downlink EGPRS Interactive Service THP1 per BSC	B1275072060.C12 78712500	Sum	
TX_DUR_DL_E GPRS_I_THP2	ACCUMULA TION	INT8	ZL9559:Total Transmission Duration of Downlink EGPRS Interactive Service THP2 per BSC	B1275072060.C12 78712501	Sum	
TX_DUR_DL_E GPRS_I_THP3	ACCUMULA TION	INT8	ZL9560:Total Transmission Duration of Downlink EGPRS Interactive Service THP3 per BSC	B1275072060.C12 78712502	Sum	
TX_DUR_DL_G PRS_BKGND_S VC	ACCUMULA TION	INT8	ZL9553:Total Transmission Duration of Downlink GPRS Background Service per BSC	B1275072060.C12 78712495	Sum	
TX_DUR_DL_G PRS_I_THP1	ACCUMULA TION	INT8	ZL9554:Total Transmission Duration of Downlink GPRS Interactive Service THP1	B1275072060.C12 78712496	Sum	

			per BSC			
TX_DUR_DL_G PRS_I_THP2	ACCUMULA TION	INT8	ZL9555:Total Transmission Duration of Downlink GPRS Interactive Service THP2 per BSC	B1275072060.C12 78712497	Sum	
TX_DUR_DL_G PRS_I_THP3	ACCUMULA TION	INT8	ZL9556:Total Transmission Duration of Downlink GPRS Interactive Service THP3 per BSC	B1275072060.C12 78712498	Sum	
TX_DUR_UL_E GPRS_BKGN D_SVC	ACCUMULA TION	INT8	ZL9453:Total Transmission Duration of Uplink EGPRS Background Service per BSC	B1275072060.C12 78712471	Sum	
TX_DUR_UL_E GPRS_I_THP1	ACCUMULA TION	INT8	ZL9454:Total Transmission Duration of Uplink EGPRS Interactive Service THP1 per BSC	B1275072060.C12 78712472	Sum	
TX_DUR_UL_E GPRS_I_THP2	ACCUMULA TION	INT8	ZL9455:Total Transmission Duration of Uplink EGPRS Interactive Service THP2 per BSC	B1275072060.C12 78712473	Sum	

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TX_DUR_UL_E GPRS_I_THP3	ACCUMULATION	INT8	ZL9456:Total Transmission Duration of Uplink EGPRS Interactive Service THP3 per BSC	B1275072060.C12 78712474	Sum	
TX_DUR_UL_G PRS_BKGND_S VC	ACCUMULATION	INT8	ZL9449:Total Transmission Duration of Uplink GPRS Background Service per BSC	B1275072060.C12 78712467	Sum	
TX_DUR_UL_G PRS_I_THP1	ACCUMULATION	INT8	ZL9450:Total Transmission Duration of Uplink GPRS Interactive Service THP1 per BSC	B1275072060.C12 78712468	Sum	
TX_DUR_UL_G PRS_I_THP2	ACCUMULATION	INT8	ZL9451:Total Transmission Duration of Uplink GPRS Interactive Service THP2 per BSC	B1275072060.C12 78712469	Sum	
TX_DUR_UL_G PRS_I_THP3	ACCUMULATION	INT8	ZL9452:Total Transmission Duration of Uplink GPRS Interactive Service THP3 per BSC	B1275072060.C12 78712470	Sum	
TX_OF_DL_EG PRS_BKGND_S ERVICE	ACCUMULATION	INT8	ZL9549:Numbe r of Transmissions of Downlink EGPRS Background Service per BSC	B1275072060.C12 78712491	Sum	

TX_OF_DL_EG PRS_I_THP1	ACCUMULA TION	INT8	ZL9550:Numbe r of Transmissions of Downlink EGPRS Interactive Service THP1 per BSC	B1275072060.C12 78712492	Sum	
TX_OF_DL_EG PRS_I_THP2	ACCUMULA TION	INT8	ZL9551:Numbe r of Transmissions of Downlink EGPRS Interactive Service THP2 per BSC	B1275072060.C12 78712493	Sum	
TX_OF_DL_EG PRS_I_THP3	ACCUMULA TION	INT8	ZL9552:Numbe r of Transmissions of Downlink EGPRS Interactive Service THP3 per BSC	B1275072060.C12 78712494	Sum	
TX_OF_DL_GP RS_BKGND_SE RVICE	ACCUMULA TION	INT8	ZL9545:Numbe r of Transmissions of Downlink GPRS Background Service per BSC	B1275072060.C12 78712487	Sum	
TX_OF_DL_GP RS_I_THP1	ACCUMULA TION	INT8	ZL9546:Numbe r of Transmissions of Downlink GPRS Interactive Service THP1	B1275072060.C12 78712488	Sum	

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			per BSC			
TX_OF_DL_GPRS_I_THP2	ACCUMULATION	INT8	ZL9547: Number of Transmissions of Downlink GPRS Interactive Service THP2 per BSC	B1275072060.C1278712489	Sum	
TX_OF_DL_GPRS_I_THP3	ACCUMULATION	INT8	ZL9548: Number of Transmissions of Downlink GPRS Interactive Service THP3 per BSC	B1275072060.C1278712490	Sum	
TX_UL_EGPRS_BK_GND_SERVICE	ACCUMULATION	INT8	ZL9445: Number of Transmissions of Uplink EGPRS Background Service per BSC	B1275072060.C1278712463	Sum	
TX_UL_EGPRS_I_THP1	ACCUMULATION	INT8	ZL9446: Number of Transmissions of Uplink EGPRS Interactive Service THP1 per BSC	B1275072060.C1278712464	Sum	
TX_UL_EGPRS_I_THP2	ACCUMULATION	INT8	ZL9447: Number of Transmissions of Uplink EGPRS Interactive Service THP2 per BSC	B1275072060.C1278712465	Sum	
TX_UL_EGPRS	ACCUMULATION	INT8	ZL9448: Number of Transmissions of Uplink EGPRS Interactive Service THP3 per BSC	B1275072060.C1278712490	Sum	

_I_THP3	TION		r of Transmissions of Uplink EGPRS Interactive Service THP3 per BSC	78712466		
TX_UL_GPRS_BKGND_SERVICE	ACCUMULATION	INT8	ZL9441:Numbe r of Transmissions of Uplink GPRS Background Service per BSC	B1275072060.C12 78712459	Sum	
TX_UL_GPRS_I_THP1	ACCUMULATION	INT8	ZL9442:Numbe r of Transmissions of Uplink GPRS Interactive Service THP1 per BSC	B1275072060.C12 78712460	Sum	
TX_UL_GPRS_I_THP2	ACCUMULATION	INT8	ZL9443:Numbe r of Transmissions of Uplink GPRS Interactive Service THP2 per BSC	B1275072060.C12 78712461	Sum	
TX_UL_GPRS_I_THP3	ACCUMULATION	INT8	ZL9444:Numbe r of Transmissions of Uplink GPRS Interactive Service THP3 per BSC	B1275072060.C12 78712462	Sum	

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UL_LLC_PDU_TX	ACCUMULATION	INT8	ZL9402: Number of Uplink LLC PDUs Sent per BSC	B1275072060.C1278712447	Sum	
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#### 7.5.46 BSC.Huawei.GSM.PCU\_messages

PCU messages

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
PCU_MSG_RX_FROM_PB_INTF_TOTAL	ACCUMULATION	INTEGER	L0387: Total Number of Messages Received from PCU	B1275070817.C1277469417	Sum	hubpvbh

#### 7.5.47 BSC.Huawei.GSM.PDCH\_resource\_capability

Measurement on PDCH resource performance of the BSC.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
SUCC_RATE_OF_PDTCH_DISTRIBUTION	INTENSITY	FLOAT	AS9207: Successful Rate of PDTCH Distribution per BSC	B1275072061.C1278713419	Average	hubpvbh, hubsvbh, hubtvbh, Sum, Minimum, Maximum
SUCC_TCH_TO_PDTCH_CONVERSION	ACCUMULATION	INT8	ZR9342: Number of Successful TCH to PDTCH Conversions per BSC	B1275072061.C1278713418	Sum	hubpvbh, hubsvbh, hubtvbh
TCH_TO_PDTCH_CONVERSION_ATT	ACCUMULATION	INT8	ZR9341: Number of TCH to PDTCH	B1275072061.C1278713417	Sum	hubpvbh, hubsvbh, hubtvbh

			Conversion Attempts per BSC		
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### 7.5.48 BSC.Huawei.GSM.Ps\_capability

Packet switched capability

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
_64K_ABIS_T S_OCCP_EGPR S_PDCH	INTENSITY	INT8	S9209:64K Abis Timeslots Occupied to EGPRS PDCH	B1275073217.C12 79869425	Average	Average, hubpvbh, Sum, Minimum, Maximum
AVG_NUM_A VL_EGPRS_P DCHS	INTENSITY	FLOAT	AS9211:Averag e Number of Available EGPRS PDCHs per BSC	B1275073217.C12 79869427	Average	Average, hubpvbh, Sum, Minimum, Maximum
AVG_NUM_A VL_GPRS_PD CHS	INTENSITY	FLOAT	AS9213:Averag e Number of Available GPRS PDCHs per BSC	B1275073217.C12 79869429	Average	Average, hubpvbh, Sum, Minimum, Maximum
MAX_NUM_A VL_PDCHS	INTENSITY	INT8	S9214:Maximu m Number of Available PDCHs per BSC	B1275073217.C12 79869430	Average	Average, hubpvbh, Sum, Minimum, Maximum

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MAX_NUM_EGPRS_PDCHS_OCCP	INTENSITY	INT8	S9208:Maximum Number of EGPRS PDCHs Occupied per BSC	B1275073217.C1279869424	Average	Average, hubpvbh, Sum, Minimum, Maximum
MAX_NUM_GPRS_PDCHS_OCCP	INTENSITY	INT8	S9207:Maximum Number of GPRS PDCHs Occupied per BSC	B1275073217.C1279869423	Average	Average, hubpvbh, Sum, Minimum, Maximum
PCUCAP_AVG_PDCH_ALLOC_NUM	INTENSITY	FLOAT	AS9204:Average Number of PDCHs Assigned per BSC	B1275073217.C1279869420	Average	Average, hubpvbh, Maximum, Minimum, Sum
PCUCAP_PEAK_PCU_PROCESSING_SPEED	INTENSITY	INT8	S9205:Maximum Processing Speed of NS-Layer Services per PCU (kbit/s)	B1275073217.C1279869421	Constant	Average, hubpvbh, Maximum, Minimum, Sum
PCUCAP_PEAK_PDCH_ALLOC_NUM	INTENSITY	INT8	S9201:Maximum Number of PDCHs Assigned per BSC	B1275073217.C1279869417	Constant	Average, hubpvbh, Maximum, Minimum, Sum
PCUCAP_SAMPLE_PDCH_ALLOC_NUM	ACCUMULATION	INTEGER	S9202:Total Number of Sampled PDCHs Assigned per BSC	B1275073217.C1279869418	Sum	Average
PCUCAP_SAMPLE_PDCH_ALLOC_TIME	ACCUMULATION	INTEGER	S9203:Number of Sampling Times of PDCHs	B1275073217.C1279869419	Sum	Average, hubpvbh

			Assigned per BSC			
PDCH_ALLO C_FAIL_FOR _CONG	ACCUMULA TION	INT8	S9206: Number of Failed PDCH Assignments Due to PCU Congestion	B1275073217.C12 79869422	Sum	Average, hubpvbh
TOT_NUM_S MPL_AVL_E GPRS_PDCHS	ACCUMULA TION	INTEG ER	S9210: Total Number of Sampled Available EGPRS PDCHs per BSC .Obsolete in V900R011.	B1275073217.C12 79869426	Sum	Average, hubpvbh
TOT_NUM_S MPL_AVL_G PRS_PDCHS	ACCUMULA TION	INTEG ER	S9212: Total Number of Sampled Available GPRS PDCHs per BSC .Obsolete in V900R011.	B1275073217.C12 79869428	Sum	Average, hubpvbh

### 7.5.49 BSC.Huawei.GSM.Ratio\_of\_receive\_quality

ratio of receive quality per rank

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
TRX_FR_DL_ RX_QLTY_0_ RATIO	INTENSI TY	FLOA T	ZS4180B: Ratio of MRs on Downlink TCHF (Receive Quality Rank 0) per BSC	B1275072054.C1278 706425	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum

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TRX_FR_DL_RX_QLTY_1_RATIO	INTENSITY	FLOAT	ZS4181B:Ratio of MRs on Downlink TCHF (Receive Quality Rank 1) per BSC	B1275072054.C1278706426	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
TRX_FR_DL_RX_QLTY_2_RATIO	INTENSITY	FLOAT	ZS4182B:Ratio of MRs on Downlink TCHF (Receive Quality Rank 2) per BSC	B1275072054.C1278706427	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
TRX_FR_DL_RX_QLTY_3_RATIO	INTENSITY	FLOAT	ZS4183B:Ratio of MRs on Downlink TCHF (Receive Quality Rank 3) per BSC	B1275072054.C1278706428	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
TRX_FR_DL_RX_QLTY_4_RATIO	INTENSITY	FLOAT	ZS4184B:Ratio of MRs on Downlink TCHF (Receive Quality Rank 4) per BSC	B1275072054.C1278706429	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
TRX_FR_DL_RX_QLTY_5_RATIO	INTENSITY	FLOAT	ZS4185B:Ratio of MRs on Downlink TCHF (Receive Quality Rank 5) per BSC	B1275072054.C1278706430	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
TRX_FR_DL_RX_QLTY_6_RATIO	INTENSITY	FLOAT	ZS4186B:Ratio of MRs on Downlink TCHF (Receive Quality Rank 6) per BSC	B1275072054.C1278706431	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum

TRX_FR_DL_RX_QLTY_7_RATIO	INTENSITY	FLOAT	ZS4187B:Ratio of MRs on Downlink TCHF (Receive Quality Rank 7) per BSC	B1275072054.C1278706432	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
TRX_FR_UL_RX_QLTY_0_RATIO	INTENSITY	FLOAT	ZS4180A:Ratio of MRs on Uplink TCHF (Receive Quality Rank 0) per BSC	B1275072054.C1278706417	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
TRX_FR_UL_RX_QLTY_1_RATIO	INTENSITY	FLOAT	ZS4181A:Ratio of MRs on Uplink TCHF (Receive Quality Rank 1) per BSC	B1275072054.C1278706418	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
TRX_FR_UL_RX_QLTY_2_RATIO	INTENSITY	FLOAT	ZS4182A:Ratio of MRs on Uplink TCHF (Receive Quality Rank 2) per BSC	B1275072054.C1278706419	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
TRX_FR_UL_RX_QLTY_3_RATIO	INTENSITY	FLOAT	ZS4183A:Ratio of MRs on Uplink TCHF (Receive Quality Rank 3) per BSC	B1275072054.C1278706420	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
TRX_FR_UL_RX_QLTY_4_RATIO	INTENSITY	FLOAT	ZS4184A:Ratio of MRs on Uplink TCHF	B1275072054.C1278706421	Average	Average, hubsvbh, hubtvbh,

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			(Receive Quality Rank 4) per BSC			Maximum, Minimum, Sum
TRX_FR_UL_RX_QLT_Y_5_RATIO	INTENSITY	FLOAT	ZS4185A:Ratio of MRs on Uplink TCHF (Receive Quality Rank 5) per BSC	B1275072054.C1278706422	Average	Average, hubs vbh, hubt vbh, Maximum, Minimum, Sum
TRX_FR_UL_RX_QLT_Y_6_RATIO	INTENSITY	FLOAT	ZS4186A:Ratio of MRs on Uplink TCHF (Receive Quality Rank 6) per BSC	B1275072054.C1278706423	Average	Average, hubs vbh, hubt vbh, Maximum, Minimum, Sum
TRX_FR_UL_RX_QLT_Y_7_RATIO	INTENSITY	FLOAT	ZS4187A:Ratio of MRs on Uplink TCHF (Receive Quality Rank 7) per BSC	B1275072054.C1278706424	Average	Average, hubs vbh, hubt vbh, Maximum, Minimum, Sum
TRX_HR_DL_RX_QLT_Y_0_RATIO	INTENSITY	FLOAT	ZS4180D:Ratio of MRs on Downlink TCHH (Receive Quality Rank 0) per BSC	B1275072054.C1278706441	Average	Average, hubs vbh, hubt vbh, Maximum, Minimum, Sum
TRX_HR_DL_RX_QLT_Y_1_RATIO	INTENSITY	FLOAT	ZS4181D:Ratio of MRs on Downlink TCHH (Receive Quality Rank 1) per BSC	B1275072054.C1278706442	Average	Average, hubs vbh, hubt vbh, Maximum, Minimum, Sum
TRX_HR_DL_RX_QLT_Y_2_RATIO	INTENSITY	FLOAT	ZS4182D:Ratio of MRs on Downlink TCHH	B1275072054.C1278706443	Average	Average, hubs vbh, hubt vbh,

			(Receive Quality Rank 2) per BSC			Maximum, Minimum, Sum
TRX_HR_DL_RX_QLT_Y_3_RATIO	INTENSITY	FLOAT	ZS4183D:Ratio of MRs on Downlink TCHH (Receive Quality Rank 3) per BSC	B1275072054.C1278706444	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
TRX_HR_DL_RX_QLT_Y_4_RATIO	INTENSITY	FLOAT	ZS4184D:Ratio of MRs on Downlink TCHH (Receive Quality Rank 4) per BSC	B1275072054.C1278706445	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
TRX_HR_DL_RX_QLT_Y_5_RATIO	INTENSITY	FLOAT	ZS4185D:Ratio of MRs on Downlink TCHH (Receive Quality Rank 5) per BSC	B1275072054.C1278706446	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
TRX_HR_DL_RX_QLT_Y_6_RATIO	INTENSITY	FLOAT	ZS4186D:Ratio of MRs on Downlink TCHH (Receive Quality Rank 6) per BSC	B1275072054.C1278706447	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
TRX_HR_DL_RX_QLT_Y_7_RATIO	INTENSITY	FLOAT	ZS4187D:Ratio of MRs on Downlink TCHH (Receive Quality Rank 7) per BSC	B1275072054.C1278706448	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum

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						m, Sum
TRX_HR_UL_RX_QLTY_0_RATIO	INTENSITY	FLOAT	ZS4180C:Ratio of MRs on Uplink TCHH (Receive Quality Rank 0) per BSC	B1275072054.C1278706433	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
TRX_HR_UL_RX_QLTY_1_RATIO	INTENSITY	FLOAT	ZS4181C:Ratio of MRs on Uplink TCHH (Receive Quality Rank 1) per BSC	B1275072054.C1278706434	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
TRX_HR_UL_RX_QLTY_2_RATIO	INTENSITY	FLOAT	ZS4182C:Ratio of MRs on Uplink TCHH (Receive Quality Rank 2) per BSC	B1275072054.C1278706435	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
TRX_HR_UL_RX_QLTY_3_RATIO	INTENSITY	FLOAT	ZS4183C:Ratio of MRs on Uplink TCHH (Receive Quality Rank 3) per BSC	B1275072054.C1278706436	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
TRX_HR_UL_RX_QLTY_4_RATIO	INTENSITY	FLOAT	ZS4184C:Ratio of MRs on Uplink TCHH (Receive Quality Rank 4) per BSC	B1275072054.C1278706437	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
TRX_HR_UL_RX_QLTY_5_RATIO	INTENSITY	FLOAT	ZS4185C:Ratio of MRs on Uplink TCHH (Receive Quality Rank 5) per BSC	B1275072054.C1278706438	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum

						m, Sum
TRX_HR_UL_RX_QLTY_6_RATIO	INTENSITY	FLOAT	ZS4186C:Ratio of MRs on Uplink TCHH (Receive Quality Rank 6) per BSC	B1275072054.C1278706439	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
TRX_HR_UL_RX_QLTY_7_RATIO	INTENSITY	FLOAT	ZS4187C:Ratio of MRs on Uplink TCHH (Receive Quality Rank 7) per BSC	B1275072054.C1278706440	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum

### 7.5.50 BSC.Huawei.GSM.TBF\_capability

Measurement on TBF establishment and release performance of the BSC.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
DL_EGPRS_INTERMIT_TRANSFERS	ACCUMULATION	INT8	ZA9318: Number of Downlink EGPRS intermit transfers per BSC	B1275072059.C1278711468	Sum	
DL_EGPRS_TBF_AB_REL_CHANNEL_PREEMPT	ACCUMULATION	INT8	ZA9316: Number of Downlink EGPRS TBF Abnormal Releases due to channel preempt per BSC	B1275072059.C1278711466	Sum	
DL_EGPRS_TBF_AB_REL_FLUSH	ACCUMULATION	INT8	ZA9308: Number of Downlink EGPRS TBF	B1275072059.C1278711464	Sum	

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			Abnormal Releases due to FLUSH per BSC			
DL_EGPRS_TBF_AB_REL_N3105_OVERFLOW	ACCUMULATION	INT8	ZA9306: Number of Downlink EGPRS TBF Abnormal Releases due to N3105 Overflow per BSC	B1275072059.C1278711462	Sum	
DL_EGPRS_TBF_AB_REL_NO_CHNL	ACCUMULATION	INT8	ZA9309: Number of Downlink EGPRS TBF Abnormal Releases due to No Channel per BSC	B1275072059.C1278711465	Sum	
DL_EGPRS_TBF_AB_REL_OTHER	ACCUMULATION	INT8	ZA9317: Number of Downlink EGPRS TBF Abnormal Releases due to other cause per BSC	B1275072059.C1278711467	Sum	
DL_EGPRS_TBF_AB_REL_SUSPEND	ACCUMULATION	INT8	ZA9307: Number of Downlink EGPRS TBF Abnormal Releases due to SUSPEND per BSC	B1275072059.C1278711463	Sum	
DL_EGPRS_TBF_ESTB_ATT	ACCUMULATION	INT8	ZA9301: Number of Downlink EGPRS TBF Establishment Attempts per BSC	B1275072059.C1278711456	Sum	
DL_EGPRS_TBF_NORMAL_REL	ACCUMULATION	INT8	ZA9305: Number of Downlink EGPRS TBF	B1275072059.C1278711461	Sum	

			Normal Releases per BSC			
DL_GPRS_INT ERMIT_TRAN SFERS	ACCUMULA TION	INT8	ZA9118:Numbe r of Downlink GPRS intermit transfers per BSC	B1275072059.C127 8711442	Sum	
DL_GPRS_TBF _AB_REL_CH NL_PREEMPT	ACCUMULA TION	INT8	ZA9116:Numbe r of Downlink GPRS TBF Abnormal Releases due to channel preempt per BSC	B1275072059.C127 8711440	Sum	
DL_GPRS_TBF _AB_REL_FLU SH	ACCUMULA TION	INT8	ZA9108:Numbe r of Downlink GPRS TBF Abnormal Releases due to FLUSH per BSC	B1275072059.C127 8711438	Sum	
DL_GPRS_TBF _AB_REL_N31 05_OVF	ACCUMULA TION	INT8	ZA9106:Numbe r of Downlink GPRS TBF Abnormal Releases due to N3105 Overflow per BSC	B1275072059.C127 8711436	Sum	
DL_GPRS_TBF _AB_REL_NO _CHNL	ACCUMULA TION	INT8	ZA9109:Numbe r of Downlink GPRS TBF Abnormal Releases due to No Channel per BSC	B1275072059.C127 8711439	Sum	
DL_GPRS_TBF	ACCUMULA	INT8	ZA9117:Numbe	B1275072059.C127	Sum	

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_AB_REL_OT HER	TION		r of Downlink GPRS TBF Abnormal Releases due to other cause per BSC	8711441		
DL_GPRS_TBF _AB_REL_SUS PEND	ACCUMULA TION	INT8	ZA9107:Numbe r of Downlink GPRS TBF Abnormal Releases due to SUSPEND per BSC	B1275072059.C127 8711437	Sum	
DL_GPRS_TBF _ESTB_ATT	ACCUMULA TION	INT8	ZA9101:Numbe r of Downlink GPRS TBF Establishment Attempts per BSC	B1275072059.C127 8711430	Sum	
DL_GPRS_TBF _NORMAL_RE L	ACCUMULA TION	INT8	ZA9105:Numbe r of Downlink GPRS TBF Normal Releases per BSC	B1275072059.C127 8711435	Sum	
FAIL_DL_EGP RS_TBF_ESTB _MS_NO_RES P	ACCUMULA TION	INT8	ZA9304:Numbe r of Failed Downlink EGPRS TBF Establishments due to MS No Response per BSC	B1275072059.C127 8711459	Sum	
FAIL_DL_EGP RS_TBF_ESTB _NO_CHNL	ACCUMULA TION	INT8	ZA9303:Numbe r of Failed Downlink EGPRS TBF Establishments due to No Channel per BSC	B1275072059.C127 8711458	Sum	
FAIL_DL_EGP	ACCUMULA	INT8	ZA9315:Numbe	B1275072059.C127	Sum	

RS_TBF_ESTB_OTHER	TION		r of Failed Downlink EGPRS TBF Establishments due to other cause per BSC	8711460		
FAIL_DL_GPRS_TBF_ESTB_MS_NO_RESP	ACCUMULATION	INT8	ZA9104: Number of Failed Downlink GPRS TBF Establishments due to MS No Response per BSC	B1275072059.C127 8711433	Sum	
FAIL_DL_GPRS_TBF_ESTB_NO_CHNL	ACCUMULATION	INT8	ZA9103: Number of Failed Downlink GPRS TBF Establishments due to No Channel per BSC	B1275072059.C127 8711432	Sum	
FAIL_DL_GPRS_TBF_ESTB_OTJHER	ACCUMULATION	INT8	ZA9115: Number of Failed Downlink GPRS TBF Establishments due to other cause per BSC	B1275072059.C127 8711434	Sum	
FAIL_UL_EGPRS_TBF_ESTB_MS_NO_RESP	ACCUMULATION	INT8	ZA9204: Number of Failed Uplink EGPRS TBF Establishments due to MS No Response per BSC	B1275072059.C127 8711446	Sum	
FAIL_UL_EGPR	ACCUMULATION	INT8	ZA9203: Numbe	B1275072059.C127	Sum	

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RS_TBF_ESTB_NO_CHNL	TION		r of Failed Uplink EGPRS TBF Establishments due to No Channel per BSC	8711445		
FAIL_UL_EGPRS_TBF_ESTB_OTHER	ACCUMULATION	INT8	ZA9216: Number of Failed Uplink EGPRS TBF Establishments due to other cause per BSC	B1275072059.C127 8711447	Sum	
FAIL_UL_GPRS_TBF_ESTB_MS_NO_RESP	ACCUMULATION	INT8	ZA9004: Number of Failed Uplink GPRS TBF Establishments due to MS No Response per BSC	B1275072059.C127 8711420	Sum	
FAIL_UL_GPRS_TBF_ESTB_NO_CHNL	ACCUMULATION	INT8	ZA9003: Number of Failed Uplink GPRS TBF Establishments due to No Channel per BSC	B1275072059.C127 8711419	Sum	
FAIL_UL_GPRS_TBF_ESTB_OTHER	ACCUMULATION	INT8	ZA9016: Number of Failed Uplink GPRS TBF Establishments due to other cause per BSC	B1275072059.C127 8711421	Sum	
SUCC_DL_EGPRS_TBF_ESTB	ACCUMULATION	INT8	ZA9302: Number of Successful Downlink EGPRS TBF Establishments per BSC	B1275072059.C127 8711457	Sum	

SUCC_DL_GPRS_TBF_ESTB	ACCUMULATION	INT8	ZA9102: Number of Successful Downlink GPRS TBF Establishments per BSC	B1275072059.C1278711431	Sum	
SUCC_UL_EGPRS_TBF_ESTB	ACCUMULATION	INT8	ZA9202: Number of Successful Uplink EGPRS TBF Establishments per BSC	B1275072059.C1278711444	Sum	
SUCC_UL_GPRS_TBF_ESTB	ACCUMULATION	INT8	ZA9002: Number of Successful Uplink GPRS TBF Establishments per BSC	B1275072059.C1278711418	Sum	
TOT_DL_EGPRS_TBF_AB_RLS	ACCUMULATION	INT8	Total Number of Downlink EGPRS TBF Abnormal Releases per BSC	B1275072059.C1278711462 + C1278711463 + C1278711464 + C1278711465 + C1278711466 + C1278711467	Sum	
TOT_DL_GPRS_TBF_AB_RLS	ACCUMULATION	INT8	Total Number of Downlink GPRS TBF Abnormal Releases per BSC	B1275072059.C1278711436 + C1278711437 + C1278711438 + C1278711439 + C1278711440 + C1278711441	Sum	
TOT_FAIL_DL_EGPRS_TBF_EST	ACCUMULATION	INT8	Total Number of Failed Downlink EGPRS TBF Establishments per BSC	B1275072059.C1278711458 + C1278711459 + C1278711460	Sum	
TOT_FAIL_DL	ACCUMULATION	INT8	Total Number of	B1275072059.C127	Sum	

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_GPRS_TBF_EST	TION		Failed Downlink GPRS TBF Establishments per BSC	8711432 + C1278711433 + C1278711434		
TOT_FAIL_UL_EGPRS_TBF_EST	ACCUMULATION	INT8	Total Number of Failed Uplink EGPRS TBF Establishments per BSC	B1275072059.C1278711445 + C1278711446 + C1278711447	Sum	
TOT_FAIL_UL_GPRS_TBF_EST	ACCUMULATION	INT8	Total Number of Failed Uplink GPRS TBF Establishments per BSC	B1275072059.C1278711419 + C1278711420 + C1278711421	Sum	
TOT_UL_EGPRS_TBF_AB_RELEASES	ACCUMULATION	INT8	Total Number of Uplink EGPRS TBF Abnormal Releases per BSC	B1275072059.C1278711449 + C1278711450 + C1278711451 + C1278711452 + C1278711453 + C1278711454 + C1278711455	Sum	
TOT_UL_GPRS_TBF_AB_RELEASES	ACCUMULATION	INT8	Total Number of Uplink GPRS TBF Abnormal Releases per BSC	B1275072059.C1278711423 + C1278711424 + C1278711425 + C1278711426 + C1278711427 + C1278711428 + C1278711429	Sum	
UL_EGPRS_TBF_AB_REL_COUNT_HNL_PREEMPT	ACCUMULATION	INT8	ZA9217: Number of Uplink EGPRS TBF Abnormal Releases due to channel preempt per BSC	B1275072059.C1278711454	Sum	
UL_EGPRS_TBF_AB_REL_FLUSH	ACCUMULATION	INT8	ZA9209: Number of Uplink EGPRS TBF Abnormal Releases due to	B1275072059.C1278711452	Sum	

			FLUSH per BSC			
UL_EGPRS_TBF_AB_REL_N3101_OVF	ACCUMULATION	INT8	ZA9206: Number of Uplink EGPRS TBF Abnormal Releases due to N3101 Overflow (MS No Response) per BSC	B1275072059.C1278711449	Sum	
UL_EGPRS_TBF_AB_REL_N3103_OVF	ACCUMULATION	INT8	ZA9207: Number of Uplink EGPRS TBF Abnormal Releases due to N3103 Overflow (MS No Response) per BSC	B1275072059.C1278711450	Sum	
UL_EGPRS_TBF_AB_REL_NO_CHNL	ACCUMULATION	INT8	ZA9210: Number of Uplink EGPRS TBF Abnormal Releases due to No Channel per BSC	B1275072059.C1278711453	Sum	
UL_EGPRS_TBF_AB_REL_OTHER	ACCUMULATION	INT8	ZA9218: Number of Uplink EGPRS TBF Abnormal Releases due to other cause per BSC	B1275072059.C1278711455	Sum	
UL_EGPRS_TBF_AB_REL_USPEND	ACCUMULATION	INT8	ZA9208: Number of Uplink EGPRS TBF Abnormal	B1275072059.C1278711451	Sum	

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			Releases due to SUSPEND per BSC			
UL_EGPRS_TBF_ESTB_ATT	ACCUMULATION	INT8	ZA9201: Number of Uplink EGPRS TBF Establishment Attempts per BSC	B1275072059.C1278711443	Sum	
UL_EGPRS_TBF_NORMAL_REL	ACCUMULATION	INT8	ZA9205: Number of Uplink EGPRS TBF Normal Releases per BSC	B1275072059.C1278711448	Sum	
UL_GPRS_TBF_AB_REL_CHANNEL_PREEMPT	ACCUMULATION	INT8	ZA9017: Number of Uplink GPRS TBF Abnormal Releases due to channel preempt per BSC	B1275072059.C1278711428	Sum	
UL_GPRS_TBF_AB_REL_FLUSH	ACCUMULATION	INT8	ZA9009: Number of Uplink GPRS TBF Abnormal Releases due to FLUSH per BSC	B1275072059.C1278711426	Sum	
UL_GPRS_TBF_AB_REL_N3101_OVF	ACCUMULATION	INT8	ZA9006: Number of Uplink GPRS TBF Abnormal Releases due to N3101 Overflow (MS No Response) per BSC	B1275072059.C1278711423	Sum	
UL_GPRS_TBF_AB_REL_N3103_OVF	ACCUMULATION	INT8	ZA9007: Number of Uplink GPRS TBF Abnormal	B1275072059.C1278711424	Sum	

			Releases due to N3103 Overflow (MS No Response) per BSC			
UL_GPRS_TBF_AB_REL_NO_CHNL	ACCUMULATION	INT8	ZA9010: Number of Uplink GPRS TBF Abnormal Releases due to No Channel per BSC	B1275072059.C127 8711427	Sum	
UL_GPRS_TBF_AB_REL_OTHER	ACCUMULATION	INT8	ZA9018: Number of Uplink GPRS TBF Abnormal Releases due to other cause per BSC	B1275072059.C127 8711429	Sum	
UL_GPRS_TBF_AB_REL_SUSPEND	ACCUMULATION	INT8	ZA9008: Number of Uplink GPRS TBF Abnormal Releases due to SUSPEND per BSC	B1275072059.C127 8711425	Sum	
UL_GPRS_TBF_ESTB_ATT	ACCUMULATION	INT8	ZA9001: Number of Uplink GPRS TBF Establishment Attempts per BSC	B1275072059.C127 8711417	Sum	
UL_GPRS_TBF_NORMAL_REL	ACCUMULATION	INT8	ZA9005: Number of Uplink GPRS TBF Normal Releases per BSC	B1275072059.C127 8711422	Sum	

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### 7.5.51 BSC.Huawei.GSM.TRX\_configuration

TRX configuration per BSC

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CONFIG_AVALNUM	INTENSITY	INT8	ZR461: Number of Available TRXs per BSC	B1275072019.C1278671418	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
CONFIG_AVALRATE	INTENSITY	FLOAT	ZR462: TRX Availability per BSC	B1275072019.C1278671419	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
CONFIG_CONFIGNUM	INTENSITY	INT8	ZR460: Number of Configured TRXs per BSC	B1275072019.C1278671417	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
TCHF_Traffic_volume_No_Earliest_Ass	INTENSITY	FLOAT	ZK3034B: TCHF Traffic Volume No Earliest Assignment	B1275072019.C1278671422	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
TCHH_Traffic_volume_No_Earliest_Ass	INTENSITY	FLOAT	ZK3034A: TCHH Traffic Volume No Earliest Assignment	B1275072019.C1278671421	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum

TCHH_Traffic_Volume	INTENSITY	FLOAT	ZK3034:TCHH Traffic Volume	B1275072019.C1278671420	Average	Average, hubsvbh, hubtvbh, Maximum, Minimum, Sum
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**7.5.52 BSC.Huawei.GSM.TRX\_rxqual\_and\_lvl\_fr\_DL**

TRX receive quality and level FR downlink

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
MRs_dl_TCHF_rx_lvl_R0_rx_Q_R0	ACCUMULATION	INTEGER	ZS4100B: Number of MRs on Downlink TCHF (Receive Level Rank 0 and Receive Quality Rank 0) per BSC	B1275072052.C1278704481	Sum	hubsvbh, hubtvbh
MRs_dl_TCHF_rx_lvl_R0_rx_Q_R1	ACCUMULATION	INTEGER	ZS4101B: Number of MRs on Downlink TCHF (Receive Level Rank 0 and Receive Quality Rank 1) per BSC	B1275072052.C1278704482	Sum	hubsvbh, hubtvbh
MRs_dl_TCHF_rx_lvl_R0_rx_Q_R2	ACCUMULATION	INTEGER	ZS4102B: Number of MRs on Downlink TCHF (Receive Level Rank 0 and Receive Quality Rank 2) per BSC	B1275072052.C1278704483	Sum	hubsvbh, hubtvbh

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MRs_dl_TCH F_rx_lvl_R0_r x_Q_R3	ACCUMULATION	INTEGER	ZS4103B:Num ber of MRs on Downlink TCHF (Receive Level Rank 0 and Receive Quality Rank 3) per BSC	B1275072052.C127 8704484	Sum	hubsvbh, hubtvbh
MRs_dl_TCH F_rx_lvl_R0_r x_Q_R4	ACCUMULATION	INTEGER	ZS4104B:Num ber of MRs on Downlink TCHF (Receive Level Rank 0 and Receive Quality Rank 4) per BSC	B1275072052.C127 8704485	Sum	hubsvbh, hubtvbh
MRs_dl_TCH F_rx_lvl_R0_r x_Q_R5	ACCUMULATION	INTEGER	ZS4105B:Num ber of MRs on Downlink TCHF (Receive Level Rank 0 and Receive Quality Rank 5) per BSC	B1275072052.C127 8704486	Sum	hubsvbh, hubtvbh
MRs_dl_TCH F_rx_lvl_R0_r x_Q_R6	ACCUMULATION	INTEGER	ZS4106B:Num ber of MRs on Downlink TCHF (Receive Level Rank 0 and Receive Quality Rank 6) per BSC	B1275072052.C127 8704487	Sum	hubsvbh, hubtvbh
MRs_dl_TCH F_rx_lvl_R0_r x_Q_R7	ACCUMULATION	INTEGER	ZS4107B:Num ber of MRs on Downlink TCHF (Receive Level Rank 0 and Receive Quality Rank 7) per BSC	B1275072052.C127 8704488	Sum	hubsvbh, hubtvbh
MRs_dl_TCH F_rx_lvl_R1_r x_Q_R0	ACCUMULATION	INTEGER	ZS4110B:Num ber of MRs on Downlink	B1275072052.C127 8704489	Sum	hubsvbh, hubtvbh

			TCHF (Receive Level Rank 1 and Receive Quality Rank 0) per BSC			
MRs_dl_TCHF_rx_lvl_R1_rx_Q_R1	ACCUMULATION	INTEGER	ZS4111B: Number of MRs on Downlink TCHF (Receive Level Rank 1 and Receive Quality Rank 1) per BSC	B1275072052.C1278704490	Sum	hubsvbh, hubtvbh
MRs_dl_TCHF_rx_lvl_R1_rx_Q_R2	ACCUMULATION	INTEGER	ZS4112B: Number of MRs on Downlink TCHF (Receive Level Rank 1 and Receive Quality Rank 2) per BSC	B1275072052.C1278704491	Sum	hubsvbh, hubtvbh
MRs_dl_TCHF_rx_lvl_R1_rx_Q_R3	ACCUMULATION	INTEGER	ZS4113B: Number of MRs on Downlink TCHF (Receive Level Rank 1 and Receive Quality Rank 3) per BSC	B1275072052.C1278704492	Sum	hubsvbh, hubtvbh
MRs_dl_TCHF_rx_lvl_R1_rx_Q_R4	ACCUMULATION	INTEGER	ZS4114B: Number of MRs on Downlink TCHF (Receive Level Rank 1 and Receive Quality Rank 4) per BSC	B1275072052.C1278704493	Sum	hubsvbh, hubtvbh
MRs_dl_TCHF	ACCUMULATION	INTEGER	ZS4115B: Num	B1275072052.C127	Sum	hubsvbh,

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F_rx_lvl_R1_rx_Q_R5	TION	ER	ber of MRs on Downlink TCHF (Receive Level Rank 1 and Receive Quality Rank 5) per BSC	8704494		hubtvbh
MRs_dl_TCHF_rx_lvl_R1_rx_Q_R6	ACCUMULATION	INTEGER	ZS4116B: Number of MRs on Downlink TCHF (Receive Level Rank 1 and Receive Quality Rank 6) per BSC	B1275072052.C1278704495	Sum	hubsvbh, hubtvbh
MRs_dl_TCHF_rx_lvl_R1_rx_Q_R7	ACCUMULATION	INTEGER	ZS4117B: Number of MRs on Downlink TCHF (Receive Level Rank 1 and Receive Quality Rank 7) per BSC	B1275072052.C1278704496	Sum	hubsvbh, hubtvbh
MRs_dl_TCHF_rx_lvl_R2_rx_Q_R0	ACCUMULATION	INTEGER	ZS4120B: Number of MRs on Downlink TCHF (Receive Level Rank 2 and Receive Quality Rank 0) per BSC	B1275072052.C1278704497	Sum	hubsvbh, hubtvbh
MRs_dl_TCHF_rx_lvl_R2_rx_Q_R1	ACCUMULATION	INTEGER	ZS4121B: Number of MRs on Downlink TCHF (Receive Level Rank 2 and Receive Quality Rank 1) per BSC	B1275072052.C1278704498	Sum	hubsvbh, hubtvbh
MRs_dl_TCHF_rx_lvl_R2_rx_Q_R2	ACCUMULATION	INTEGER	ZS4122B: Number of MRs on Downlink TCHF (Receive	B1275072052.C1278704499	Sum	hubsvbh, hubtvbh

			Level Rank 2 and Receive Quality Rank 2) per BSC			
MRs_dl_TCH F_rx_lvl_R2_rx_Q_R3	ACCUMULATION	INTEGER	ZS4123B: Number of MRs on Downlink TCHF (Receive Level Rank 2 and Receive Quality Rank 3) per BSC	B1275072052.C1278704500	Sum	hubsvbh, hubtvbh
MRs_dl_TCH F_rx_lvl_R2_rx_Q_R4	ACCUMULATION	INTEGER	ZS4124B: Number of MRs on Downlink TCHF (Receive Level Rank 2 and Receive Quality Rank 4) per BSC	B1275072052.C1278704501	Sum	hubsvbh, hubtvbh
MRs_dl_TCH F_rx_lvl_R2_rx_Q_R5	ACCUMULATION	INTEGER	ZS4125B: Number of MRs on Downlink TCHF (Receive Level Rank 2 and Receive Quality Rank 5) per BSC	B1275072052.C1278704502	Sum	hubsvbh, hubtvbh
MRs_dl_TCH F_rx_lvl_R2_rx_Q_R6	ACCUMULATION	INTEGER	ZS4126B: Number of MRs on Downlink TCHF (Receive Level Rank 2 and Receive Quality Rank 6) per BSC	B1275072052.C1278704503	Sum	hubsvbh, hubtvbh
MRs_dl_TCH F_rx_lvl_R2_rx_Q_R6	ACCUMULATION	INTEGER	ZS4127B: Number of MRs on	B1275072052.C1278704504	Sum	hubsvbh, hubtvbh

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x_Q_R7			Downlink TCHF (Receive Level Rank 2 and Receive Quality Rank 7) per BSC			
MRs_dl_TCHF_rx_lvl_R3_rx_Q_R0	ACCUMULATION	INTEGER	ZS4130B: Number of MRs on Downlink TCHF (Receive Level Rank 3 and Receive Quality Rank 0) per BSC	B1275072052.C1278704505	Sum	hubsvbh, hubtvbh
MRs_dl_TCHF_rx_lvl_R3_rx_Q_R1	ACCUMULATION	INTEGER	ZS4131B: Number of MRs on Downlink TCHF (Receive Level Rank 3 and Receive Quality Rank 1) per BSC	B1275072052.C1278704506	Sum	hubsvbh, hubtvbh
MRs_dl_TCHF_rx_lvl_R3_rx_Q_R2	ACCUMULATION	INTEGER	ZS4132B: Number of MRs on Downlink TCHF (Receive Level Rank 3 and Receive Quality Rank 2) per BSC	B1275072052.C1278704507	Sum	hubsvbh, hubtvbh
MRs_dl_TCHF_rx_lvl_R3_rx_Q_R3	ACCUMULATION	INTEGER	ZS4133B: Number of MRs on Downlink TCHF (Receive Level Rank 3 and Receive Quality Rank 3) per BSC	B1275072052.C1278704508	Sum	hubsvbh, hubtvbh
MRs_dl_TCHF_rx_lvl_R3_rx_Q_R4	ACCUMULATION	INTEGER	ZS4134B: Number of MRs on Downlink TCHF (Receive Level Rank 3	B1275072052.C1278704509	Sum	hubsvbh, hubtvbh

			and Receive Quality Rank 4) per BSC			
MRs_dl_TCH F_rx_lvl_R3_r x_Q_R5	ACCUMULATION	INTEGER	ZS4135B: Number of MRs on Downlink TCHF (Receive Level Rank 3 and Receive Quality Rank 5) per BSC	B1275072052.C127 8704510	Sum	hubsvbh, hubtvbh
MRs_dl_TCH F_rx_lvl_R3_r x_Q_R6	ACCUMULATION	INTEGER	ZS4136B: Number of MRs on Downlink TCHF (Receive Level Rank 3 and Receive Quality Rank 6) per BSC	B1275072052.C127 8704511	Sum	hubsvbh, hubtvbh
MRs_dl_TCH F_rx_lvl_R3_r x_Q_R7	ACCUMULATION	INTEGER	ZS4137B: Number of MRs on Downlink TCHF (Receive Level Rank 3 and Receive Quality Rank 7) per BSC	B1275072052.C127 8704512	Sum	hubsvbh, hubtvbh
MRs_dl_TCH F_rx_lvl_R4_r x_Q_R0	ACCUMULATION	INTEGER	ZS4140B: Number of MRs on Downlink TCHF (Receive Level Rank 4 and Receive Quality Rank 0) per BSC	B1275072052.C127 8704513	Sum	hubsvbh, hubtvbh
MRs_dl_TCH F_rx_lvl_R4_r x_Q_R1	ACCUMULATION	INTEGER	ZS4141B: Number of MRs on Downlink	B1275072052.C127 8704514	Sum	hubsvbh, hubtvbh

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			TCHF (Receive Level Rank 4 and Receive Quality Rank 1) per BSC			
MRs_dl_TCHF_rx_lvl_R4_rx_Q_R2	ACCUMULATION	INTEGER	ZS4142B: Number of MRs on Downlink TCHF (Receive Level Rank 4 and Receive Quality Rank 2) per BSC	B1275072052.C1278704515	Sum	hubsvbh, hubtvbh
MRs_dl_TCHF_rx_lvl_R4_rx_Q_R3	ACCUMULATION	INTEGER	ZS4143B: Number of MRs on Downlink TCHF (Receive Level Rank 4 and Receive Quality Rank 3) per BSC	B1275072052.C1278704516	Sum	hubsvbh, hubtvbh
MRs_dl_TCHF_rx_lvl_R4_rx_Q_R4	ACCUMULATION	INTEGER	ZS4144B: Number of MRs on Downlink TCHF (Receive Level Rank 4 and Receive Quality Rank 4) per BSC	B1275072052.C1278704517	Sum	hubsvbh, hubtvbh
MRs_dl_TCHF_rx_lvl_R4_rx_Q_R5	ACCUMULATION	INTEGER	ZS4145B: Number of MRs on Downlink TCHF (Receive Level Rank 4 and Receive Quality Rank 5) per BSC	B1275072052.C1278704518	Sum	hubsvbh, hubtvbh
MRs_dl_TCHF_rx_lvl_R4_rx_Q_R6	ACCUMULATION	INTEGER	ZS4146B: Number of MRs on Downlink TCHF (Receive Level Rank 4 and Receive	B1275072052.C1278704519	Sum	hubsvbh, hubtvbh

			Quality Rank 6) per BSC			
MRs_dl_TCH F_rx_lvl_R4_r x_Q_R7	ACCUMULATION	INTEGER	ZS4147B: Number of MRs on Downlink TCHF (Receive Level Rank 4 and Receive Quality Rank 7) per BSC	B1275072052.C127 8704520	Sum	hubsvbh, hubtvbh
MRs_dl_TCH F_rx_lvl_R5_r x_Q_R0	ACCUMULATION	INTEGER	ZS4150B: Number of MRs on Downlink TCHF (Receive Level Rank 5 and Receive Quality Rank 0) per BSC	B1275072052.C127 8704521	Sum	hubsvbh, hubtvbh
MRs_dl_TCH F_rx_lvl_R5_r x_Q_R1	ACCUMULATION	INTEGER	ZS4151B: Number of MRs on Downlink TCHF (Receive Level Rank 5 and Receive Quality Rank 1) per BSC	B1275072052.C127 8704522	Sum	hubsvbh, hubtvbh
MRs_dl_TCH F_rx_lvl_R5_r x_Q_R2	ACCUMULATION	INTEGER	ZS4152B: Number of MRs on Downlink TCHF (Receive Level Rank 5 and Receive Quality Rank 2) per BSC	B1275072052.C127 8704523	Sum	hubsvbh, hubtvbh
MRs_dl_TCH F_rx_lvl_R5_r x_Q_R3	ACCUMULATION	INTEGER	ZS4153B: Number of MRs on Downlink TCHF (Receive	B1275072052.C127 8704524	Sum	hubsvbh, hubtvbh

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			Level Rank 5 and Receive Quality Rank 3) per BSC			
MRs_dl_TCH F_rx_lvl_R5_rx_Q_R4	ACCUMULATION	INTEGER	ZS4154B: Number of MRs on Downlink TCHF (Receive Level Rank 5 and Receive Quality Rank 4) per BSC	B1275072052.C1278704525	Sum	hubsvbh, hubtvbh
MRs_dl_TCH F_rx_lvl_R5_rx_Q_R5	ACCUMULATION	INTEGER	ZS4155B: Number of MRs on Downlink TCHF (Receive Level Rank 5 and Receive Quality Rank 5) per BSC	B1275072052.C1278704526	Sum	hubsvbh, hubtvbh
MRs_dl_TCH F_rx_lvl_R5_rx_Q_R6	ACCUMULATION	INTEGER	ZS4156B: Number of MRs on Downlink TCHF (Receive Level Rank 5 and Receive Quality Rank 6) per BSC	B1275072052.C1278704527	Sum	hubsvbh, hubtvbh
MRs_dl_TCH F_rx_lvl_R5_rx_Q_R7	ACCUMULATION	INTEGER	ZS4157B: Number of MRs on Downlink TCHF (Receive Level Rank 5 and Receive Quality Rank 7) per BSC	B1275072052.C1278704528	Sum	hubsvbh, hubtvbh
MRs_dl_TCH F_rx_lvl_R6_rx_Q_R0	ACCUMULATION	INTEGER	ZS4160B: Number of MRs on Downlink TCHF (Receive Level Rank 6 and Receive Quality Rank 0)	B1275072052.C1278704529	Sum	hubsvbh, hubtvbh

			per BSC			
MRs_dl_TCHF_rx_lvl_R6_rx_Q_R1	ACCUMULATION	INTEGER	ZS4161B: Number of MRs on Downlink TCHF (Receive Level Rank 6 and Receive Quality Rank 1) per BSC	B1275072052.C1278704530	Sum	hubsvbh, hubtvbh
MRs_dl_TCHF_rx_lvl_R6_rx_Q_R2	ACCUMULATION	INTEGER	ZS4162B: Number of MRs on Downlink TCHF (Receive Level Rank 6 and Receive Quality Rank 2) per BSC	B1275072052.C1278704531	Sum	hubsvbh, hubtvbh
MRs_dl_TCHF_rx_lvl_R6_rx_Q_R3	ACCUMULATION	INTEGER	ZS4163B: Number of MRs on Downlink TCHF (Receive Level Rank 6 and Receive Quality Rank 3) per BSC	B1275072052.C1278704532	Sum	hubsvbh, hubtvbh
MRs_dl_TCHF_rx_lvl_R6_rx_Q_R4	ACCUMULATION	INTEGER	ZS4164B: Number of MRs on Downlink TCHF (Receive Level Rank 6 and Receive Quality Rank 4) per BSC	B1275072052.C1278704533	Sum	hubsvbh, hubtvbh
MRs_dl_TCHF_rx_lvl_R6_rx_Q_R5	ACCUMULATION	INTEGER	ZS4165B: Number of MRs on Downlink TCHF (Receive Level Rank 6	B1275072052.C1278704534	Sum	hubsvbh, hubtvbh

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			and Receive Quality Rank 5) per BSC			
MRs_dl_TCH F_rx_lvl_R6_rx_Q_R6	ACCUMULATION	INTEGER	ZS4166B: Number of MRs on Downlink TCHF (Receive Level Rank 6 and Receive Quality Rank 6) per BSC	B1275072052.C1278704535	Sum	hubsvbh, hubtvbh
MRs_dl_TCH F_rx_lvl_R6_rx_Q_R7	ACCUMULATION	INTEGER	ZS4167B: Number of MRs on Downlink TCHF (Receive Level Rank 6 and Receive Quality Rank 7) per BSC	B1275072052.C1278704536	Sum	hubsvbh, hubtvbh
MRs_dl_TCH F_rx_lvl_R7_rx_Q_R0	ACCUMULATION	INTEGER	ZS4170B: Number of MRs on Downlink TCHF (Receive Level Rank 7 and Receive Quality Rank 0) per BSC	B1275072052.C1278704537	Sum	hubsvbh, hubtvbh
MRs_dl_TCH F_rx_lvl_R7_rx_Q_R1	ACCUMULATION	INTEGER	ZS4171B: Number of MRs on Downlink TCHF (Receive Level Rank 7 and Receive Quality Rank 1) per BSC	B1275072052.C1278704538	Sum	hubsvbh, hubtvbh
MRs_dl_TCH F_rx_lvl_R7_rx_Q_R2	ACCUMULATION	INTEGER	ZS4172B: Number of MRs on Downlink TCHF (Receive Level Rank 7 and Receive Quality Rank 2) per BSC	B1275072052.C1278704539	Sum	hubsvbh, hubtvbh

MRs_dl_TCH F_rx_lvl_R7_r x_Q_R3	ACCUMULATION	INTEGER	ZS4173B: Number of MRs on Downlink TCHF (Receive Level Rank 7 and Receive Quality Rank 3) per BSC	B1275072052.C127 8704540	Sum	hubsvbh, hubtvbh
MRs_dl_TCH F_rx_lvl_R7_r x_Q_R4	ACCUMULATION	INTEGER	ZS4174B: Number of MRs on Downlink TCHF (Receive Level Rank 7 and Receive Quality Rank 4) per BSC	B1275072052.C127 8704541	Sum	hubsvbh, hubtvbh
MRs_dl_TCH F_rx_lvl_R7_r x_Q_R5	ACCUMULATION	INTEGER	ZS4175B: Number of MRs on Downlink TCHF (Receive Level Rank 7 and Receive Quality Rank 5) per BSC	B1275072052.C127 8704542	Sum	hubsvbh, hubtvbh
MRs_dl_TCH F_rx_lvl_R7_r x_Q_R6	ACCUMULATION	INTEGER	ZS4176B: Number of MRs on Downlink TCHF (Receive Level Rank 7 and Receive Quality Rank 6) per BSC	B1275072052.C127 8704543	Sum	hubsvbh, hubtvbh
MRs_dl_TCH F_rx_lvl_R7_r x_Q_R7	ACCUMULATION	INTEGER	ZS4177B: Number of MRs on Downlink TCHF (Receive Level Rank 7 and Receive Quality Rank 7)	B1275072052.C127 8704544	Sum	hubsvbh, hubtvbh

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			per BSC			
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### 7.5.53 BSC.Huawei.GSM.TRX\_rxqual\_and\_lvl\_fr\_UL

TRX receive quality and level FR uplink

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
MRs_ul_TCH F_rx_lvl_R0_rx_Q_R0	ACCUMULATION	INTEGER	ZS4100A: Number of MRs on Uplink TCHF (Receive Level Rank 0 and Receive Quality Rank 0) per BSC	B1275072052.C1278704417	Sum	hubsvbh, hubtvbh
MRs_ul_TCH F_rx_lvl_R0_rx_Q_R1	ACCUMULATION	INTEGER	ZS4101A: Number of MRs on Uplink TCHF (Receive Level Rank 0 and Receive Quality Rank 1) per BSC	B1275072052.C1278704418	Sum	hubsvbh, hubtvbh
MRs_ul_TCH F_rx_lvl_R0_rx_Q_R2	ACCUMULATION	INTEGER	ZS4102A: Number of MRs on Uplink TCHF (Receive Level Rank 0 and Receive Quality Rank 2) per BSC	B1275072052.C1278704419	Sum	hubsvbh, hubtvbh
MRs_ul_TCH F_rx_lvl_R0_rx_Q_R3	ACCUMULATION	INTEGER	ZS4103A: Number of MRs on Uplink TCHF (Receive Level Rank 0 and Receive Quality Rank 3) per BSC	B1275072052.C1278704420	Sum	hubsvbh, hubtvbh
MRs_ul_TCH	ACCUMULATION	INTEGER	ZS4104A: Num	B1275072052.C127	Sum	hubsvbh,

F_rx_lvl_R0_rx_Q_R4	TION	ER	ber of MRs on Uplink TCHF (Receive Level Rank 0 and Receive Quality Rank 4) per BSC	8704421		hubtvbh
MRs_ul_TCHF_rx_lvl_R0_rx_Q_R5	ACCUMULATION	INTEGER	ZS4105A: Number of MRs on Uplink TCHF (Receive Level Rank 0 and Receive Quality Rank 5) per BSC	B1275072052.C1278704422	Sum	hubsvbh, hubtvbh
MRs_ul_TCHF_rx_lvl_R0_rx_Q_R6	ACCUMULATION	INTEGER	ZS4106A: Number of MRs on Uplink TCHF (Receive Level Rank 0 and Receive Quality Rank 6) per BSC	B1275072052.C1278704423	Sum	hubsvbh, hubtvbh
MRs_ul_TCHF_rx_lvl_R0_rx_Q_R7	ACCUMULATION	INTEGER	ZS4107A: Number of MRs on Uplink TCHF (Receive Level Rank 0 and Receive Quality Rank 7) per BSC	B1275072052.C1278704424	Sum	hubsvbh, hubtvbh
MRs_ul_TCHF_rx_lvl_R1_rx_Q_R0	ACCUMULATION	INTEGER	ZS4110A: Number of MRs on Uplink TCHF (Receive Level Rank 1 and Receive Quality Rank 0) per BSC	B1275072052.C1278704425	Sum	hubsvbh, hubtvbh

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MRs_ul_TCH F_rx_lvl_R1_r x_Q_R1	ACCUMULATION	INTEGER	ZS4111A:Num ber of MRs on Uplink TCHF (Receive Level Rank 1 and Receive Quality Rank 1) per BSC	B1275072052.C127 8704426	Sum	hubsvbh, hubtvbh
MRs_ul_TCH F_rx_lvl_R1_r x_Q_R2	ACCUMULATION	INTEGER	ZS4112A:Num ber of MRs on Uplink TCHF (Receive Level Rank 1 and Receive Quality Rank 2) per BSC	B1275072052.C127 8704427	Sum	hubsvbh, hubtvbh
MRs_ul_TCH F_rx_lvl_R1_r x_Q_R3	ACCUMULATION	INTEGER	ZS4113A:Num ber of MRs on Uplink TCHF (Receive Level Rank 1 and Receive Quality Rank 3) per BSC	B1275072052.C127 8704428	Sum	hubsvbh, hubtvbh
MRs_ul_TCH F_rx_lvl_R1_r x_Q_R4	ACCUMULATION	INTEGER	ZS4114A:Num ber of MRs on Uplink TCHF (Receive Level Rank 1 and Receive Quality Rank 4) per BSC	B1275072052.C127 8704429	Sum	hubsvbh, hubtvbh
MRs_ul_TCH F_rx_lvl_R1_r x_Q_R5	ACCUMULATION	INTEGER	ZS4115A:Num ber of MRs on Uplink TCHF (Receive Level Rank 1 and Receive Quality Rank 5) per BSC	B1275072052.C127 8704430	Sum	hubsvbh, hubtvbh
MRs_ul_TCH F_rx_lvl_R1_r x_Q_R6	ACCUMULATION	INTEGER	ZS4116A:Num ber of MRs on Uplink TCHF	B1275072052.C127 8704431	Sum	hubsvbh, hubtvbh

			(Receive Level Rank 1 and Receive Quality Rank 6) per BSC			
MRs_ul_TCH F_rx_lvl_R1_r x_Q_R7	ACCUMULATION	INTEGER	ZS4117A: Number of MRs on Uplink TCHF (Receive Level Rank 1 and Receive Quality Rank 7) per BSC	B1275072052.C127 8704432	Sum	hubsvbh, hubtvbh
MRs_ul_TCH F_rx_lvl_R2_r x_Q_R0	ACCUMULATION	INTEGER	ZS4120A: Number of MRs on Uplink TCHF (Receive Level Rank 2 and Receive Quality Rank 0) per BSC	B1275072052.C127 8704433	Sum	hubsvbh, hubtvbh
MRs_ul_TCH F_rx_lvl_R2_r x_Q_R1	ACCUMULATION	INTEGER	ZS4121A: Number of MRs on Uplink TCHF (Receive Level Rank 2 and Receive Quality Rank 1) per BSC	B1275072052.C127 8704434	Sum	hubsvbh, hubtvbh
MRs_ul_TCH F_rx_lvl_R2_r x_Q_R2	ACCUMULATION	INTEGER	ZS4122A: Number of MRs on Uplink TCHF (Receive Level Rank 2 and Receive Quality Rank 2) per BSC	B1275072052.C127 8704435	Sum	hubsvbh, hubtvbh
MRs_ul_TCH	ACCUMULATION	INTEGER	ZS4123A: Num	B1275072052.C127	Sum	hubsvbh,

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F_rx_lvl_R2_rx_Q_R3	TION	ER	ber of MRs on Uplink TCHF (Receive Level Rank 2 and Receive Quality Rank 3) per BSC	8704436		hubtvbh
MRs_ul_TCHF_rx_lvl_R2_rx_Q_R4	ACCUMULATION	INTEGER	ZS4124A: Number of MRs on Uplink TCHF (Receive Level Rank 2 and Receive Quality Rank 4) per BSC	B1275072052.C1278704437	Sum	hubsvbh, hubtvbh
MRs_ul_TCHF_rx_lvl_R2_rx_Q_R5	ACCUMULATION	INTEGER	ZS4125A: Number of MRs on Uplink TCHF (Receive Level Rank 2 and Receive Quality Rank 5) per BSC	B1275072052.C1278704438	Sum	hubsvbh, hubtvbh
MRs_ul_TCHF_rx_lvl_R2_rx_Q_R6	ACCUMULATION	INTEGER	ZS4126A: Number of MRs on Uplink TCHF (Receive Level Rank 2 and Receive Quality Rank 6) per BSC	B1275072052.C1278704439	Sum	hubsvbh, hubtvbh
MRs_ul_TCHF_rx_lvl_R2_rx_Q_R7	ACCUMULATION	INTEGER	ZS4127A: Number of MRs on Uplink TCHF (Receive Level Rank 2 and Receive Quality Rank 7) per BSC	B1275072052.C1278704440	Sum	hubsvbh, hubtvbh
MRs_ul_TCHF_rx_lvl_R3_rx_Q_R0	ACCUMULATION	INTEGER	ZS4130A: Number of MRs on Uplink TCHF (Receive Level	B1275072052.C1278704441	Sum	hubsvbh, hubtvbh

			Rank 3 and Receive Quality Rank 0) per BSC			
MRs_ul_TCH F_rx_lvl_R3_rx_Q_R1	ACCUMULATION	INTEGER	ZS4131A: Number of MRs on Uplink TCHF (Receive Level Rank 3 and Receive Quality Rank 1) per BSC	B1275072052.C1278704442	Sum	hubsvbh, hubtvbh
MRs_ul_TCH F_rx_lvl_R3_rx_Q_R2	ACCUMULATION	INTEGER	ZS4132A: Number of MRs on Uplink TCHF (Receive Level Rank 3 and Receive Quality Rank 2) per BSC	B1275072052.C1278704443	Sum	hubsvbh, hubtvbh
MRs_ul_TCH F_rx_lvl_R3_rx_Q_R3	ACCUMULATION	INTEGER	ZS4133A: Number of MRs on Uplink TCHF (Receive Level Rank 3 and Receive Quality Rank 3) per BSC	B1275072052.C1278704444	Sum	hubsvbh, hubtvbh
MRs_ul_TCH F_rx_lvl_R3_rx_Q_R4	ACCUMULATION	INTEGER	ZS4134A: Number of MRs on Uplink TCHF (Receive Level Rank 3 and Receive Quality Rank 4) per BSC	B1275072052.C1278704445	Sum	hubsvbh, hubtvbh
MRs_ul_TCH F_rx_lvl_R3_rx_Q_R5	ACCUMULATION	INTEGER	ZS4135A: Number of MRs on Uplink TCHF (Receive Level Rank 3 and Receive Quality Rank 5) per BSC	B1275072052.C1278704446	Sum	hubsvbh, hubtvbh

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x_Q_R5			Uplink TCHF (Receive Level Rank 3 and Receive Quality Rank 5) per BSC			
MRs_ul_TCHF_rx_lvl_R3_rx_Q_R6	ACCUMULATION	INTEGER	ZS4136A: Number of MRs on Uplink TCHF (Receive Level Rank 3 and Receive Quality Rank 6) per BSC	B1275072052.C1278704447	Sum	hubsvbh, hubtvbh
MRs_ul_TCHF_rx_lvl_R3_rx_Q_R7	ACCUMULATION	INTEGER	ZS4137A: Number of MRs on Uplink TCHF (Receive Level Rank 3 and Receive Quality Rank 7) per BSC	B1275072052.C1278704448	Sum	hubsvbh, hubtvbh
MRs_ul_TCHF_rx_lvl_R4_rx_Q_R0	ACCUMULATION	INTEGER	ZS4140A: Number of MRs on Uplink TCHF (Receive Level Rank 4 and Receive Quality Rank 0) per BSC	B1275072052.C1278704449	Sum	hubsvbh, hubtvbh
MRs_ul_TCHF_rx_lvl_R4_rx_Q_R1	ACCUMULATION	INTEGER	ZS4141A: Number of MRs on Uplink TCHF (Receive Level Rank 4 and Receive Quality Rank 1) per BSC	B1275072052.C1278704450	Sum	hubsvbh, hubtvbh
MRs_ul_TCHF_rx_lvl_R4_rx_Q_R2	ACCUMULATION	INTEGER	ZS4142A: Number of MRs on Uplink TCHF (Receive Level Rank 4 and	B1275072052.C1278704451	Sum	hubsvbh, hubtvbh

			Receive Quality Rank 2) per BSC			
MRs_ul_TCH F_rx_lvl_R4_r x_Q_R3	ACCUMULATION	INTEGER	ZS4143A: Number of MRs on Uplink TCHF (Receive Level Rank 4 and Receive Quality Rank 3) per BSC	B1275072052.C127 8704452	Sum	hubsvbh, hubtvbh
MRs_ul_TCH F_rx_lvl_R4_r x_Q_R4	ACCUMULATION	INTEGER	ZS4144A: Number of MRs on Uplink TCHF (Receive Level Rank 4 and Receive Quality Rank 4) per BSC	B1275072052.C127 8704453	Sum	hubsvbh, hubtvbh
MRs_ul_TCH F_rx_lvl_R4_r x_Q_R5	ACCUMULATION	INTEGER	ZS4145A: Number of MRs on Uplink TCHF (Receive Level Rank 4 and Receive Quality Rank 5) per BSC	B1275072052.C127 8704454	Sum	hubsvbh, hubtvbh
MRs_ul_TCH F_rx_lvl_R4_r x_Q_R6	ACCUMULATION	INTEGER	ZS4146A: Number of MRs on Uplink TCHF (Receive Level Rank 4 and Receive Quality Rank 6) per BSC	B1275072052.C127 8704455	Sum	hubsvbh, hubtvbh
MRs_ul_TCH F_rx_lvl_R4_r x_Q_R7	ACCUMULATION	INTEGER	ZS4147A: Number of MRs on Uplink TCHF	B1275072052.C127 8704456	Sum	hubsvbh, hubtvbh

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			(Receive Level Rank 4 and Receive Quality Rank 7) per BSC			
MRs_ul_TCH F_rx_lvl_R5_rx_Q_R0	ACCUMULATION	INTEGER	ZS4150A: Number of MRs on Uplink TCHF (Receive Level Rank 5 and Receive Quality Rank 0) per BSC	B1275072052.C1278704457	Sum	hubsvbh, hubtvbh
MRs_ul_TCH F_rx_lvl_R5_rx_Q_R1	ACCUMULATION	INTEGER	ZS4151A: Number of MRs on Uplink TCHF (Receive Level Rank 5 and Receive Quality Rank 1) per BSC	B1275072052.C1278704458	Sum	hubsvbh, hubtvbh
MRs_ul_TCH F_rx_lvl_R5_rx_Q_R2	ACCUMULATION	INTEGER	ZS4152A: Number of MRs on Uplink TCHF (Receive Level Rank 5 and Receive Quality Rank 2) per BSC	B1275072052.C1278704459	Sum	hubsvbh, hubtvbh
MRs_ul_TCH F_rx_lvl_R5_rx_Q_R3	ACCUMULATION	INTEGER	ZS4153A: Number of MRs on Uplink TCHF (Receive Level Rank 5 and Receive Quality Rank 3) per BSC	B1275072052.C1278704460	Sum	hubsvbh, hubtvbh
MRs_ul_TCH F_rx_lvl_R5_rx_Q_R4	ACCUMULATION	INTEGER	ZS4154A: Number of MRs on Uplink TCHF (Receive Level Rank 5 and Receive Quality	B1275072052.C1278704461	Sum	hubsvbh, hubtvbh

			Rank 4) per BSC			
MRs_ul_TCH F_rx_lvl_R5_r x_Q_R5	ACCUMULATION	INTEGER	ZS4155A: Number of MRs on Uplink TCHF (Receive Level Rank 5 and Receive Quality Rank 5) per BSC	B1275072052.C127 8704462	Sum	hubsvbh, hubtvbh
MRs_ul_TCH F_rx_lvl_R5_r x_Q_R6	ACCUMULATION	INTEGER	ZS4156A: Number of MRs on Uplink TCHF (Receive Level Rank 5 and Receive Quality Rank 6) per BSC	B1275072052.C127 8704463	Sum	hubsvbh, hubtvbh
MRs_ul_TCH F_rx_lvl_R5_r x_Q_R7	ACCUMULATION	INTEGER	ZS4157A: Number of MRs on Uplink TCHF (Receive Level Rank 5 and Receive Quality Rank 7) per BSC	B1275072052.C127 8704464	Sum	hubsvbh, hubtvbh
MRs_ul_TCH F_rx_lvl_R6_r x_Q_R0	ACCUMULATION	INTEGER	ZS4160A: Number of MRs on Uplink TCHF (Receive Level Rank 6 and Receive Quality Rank 0) per BSC	B1275072052.C127 8704465	Sum	hubsvbh, hubtvbh
MRs_ul_TCH F_rx_lvl_R6_r x_Q_R1	ACCUMULATION	INTEGER	ZS4161A: Number of MRs on Uplink TCHF (Receive Level	B1275072052.C127 8704466	Sum	hubsvbh, hubtvbh

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			Rank 6 and Receive Quality Rank 1) per BSC			
MRs_ul_TCH F_rx_lvl_R6_r x_Q_R2	ACCUMULATION	INTEGER	ZS4162A: Number of MRs on Uplink TCHF (Receive Level Rank 6 and Receive Quality Rank 2) per BSC	B1275072052.C127 8704467	Sum	hubsvbh, hubtvbh
MRs_ul_TCH F_rx_lvl_R6_r x_Q_R3	ACCUMULATION	INTEGER	ZS4163A: Number of MRs on Uplink TCHF (Receive Level Rank 6 and Receive Quality Rank 3) per BSC	B1275072052.C127 8704468	Sum	hubsvbh, hubtvbh
MRs_ul_TCH F_rx_lvl_R6_r x_Q_R4	ACCUMULATION	INTEGER	ZS4164A: Number of MRs on Uplink TCHF (Receive Level Rank 6 and Receive Quality Rank 4) per BSC	B1275072052.C127 8704469	Sum	hubsvbh, hubtvbh
MRs_ul_TCH F_rx_lvl_R6_r x_Q_R5	ACCUMULATION	INTEGER	ZS4165A: Number of MRs on Uplink TCHF (Receive Level Rank 6 and Receive Quality Rank 5) per BSC	B1275072052.C127 8704470	Sum	hubsvbh, hubtvbh
MRs_ul_TCH F_rx_lvl_R6_r x_Q_R6	ACCUMULATION	INTEGER	ZS4166A: Number of MRs on Uplink TCHF (Receive Level Rank 6 and Receive Quality Rank 6) per	B1275072052.C127 8704471	Sum	hubsvbh, hubtvbh

			BSC			
MRs_ul_TCH F_rx_lvl_R6_r x_Q_R7	ACCUMULATION	INTEGER	ZS4167A: Number of MRs on Uplink TCHF (Receive Level Rank 6 and Receive Quality Rank 7) per BSC	B1275072052.C127 8704472	Sum	hubsvbh, hubtvbh
MRs_ul_TCH F_rx_lvl_R7_r x_Q_R0	ACCUMULATION	INTEGER	ZS4170A: Number of MRs on Uplink TCHF (Receive Level Rank 7 and Receive Quality Rank 0) per BSC	B1275072052.C127 8704473	Sum	hubsvbh, hubtvbh
MRs_ul_TCH F_rx_lvl_R7_r x_Q_R1	ACCUMULATION	INTEGER	ZS4171A: Number of MRs on Uplink TCHF (Receive Level Rank 7 and Receive Quality Rank 1) per BSC	B1275072052.C127 8704474	Sum	hubsvbh, hubtvbh
MRs_ul_TCH F_rx_lvl_R7_r x_Q_R2	ACCUMULATION	INTEGER	ZS4172A: Number of MRs on Uplink TCHF (Receive Level Rank 7 and Receive Quality Rank 2) per BSC	B1275072052.C127 8704475	Sum	hubsvbh, hubtvbh
MRs_ul_TCH F_rx_lvl_R7_r x_Q_R3	ACCUMULATION	INTEGER	ZS4173A: Number of MRs on Uplink TCHF (Receive Level Rank 7 and	B1275072052.C127 8704476	Sum	hubsvbh, hubtvbh

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			Receive Quality Rank 3) per BSC			
MRS_ul_TCHF_rx_lvl_R7_rx_Q_R4	ACCUMULATION	INTEGER	ZS4174A: Number of MRs on Uplink TCHF (Receive Level Rank 7 and Receive Quality Rank 4) per BSC	B1275072052.C1278704477	Sum	hubsvbh, hubtvbh
MRS_ul_TCHF_rx_lvl_R7_rx_Q_R5	ACCUMULATION	INTEGER	ZS4175A: Number of MRs on Uplink TCHF (Receive Level Rank 7 and Receive Quality Rank 5) per BSC	B1275072052.C1278704478	Sum	hubsvbh, hubtvbh
MRS_ul_TCHF_rx_lvl_R7_rx_Q_R6	ACCUMULATION	INTEGER	ZS4176A: Number of MRs on Uplink TCHF (Receive Level Rank 7 and Receive Quality Rank 6) per BSC	B1275072052.C1278704479	Sum	hubsvbh, hubtvbh
MRS_ul_TCHF_rx_lvl_R7_rx_Q_R7	ACCUMULATION	INTEGER	ZS4177A: Number of MRs on Uplink TCHF (Receive Level Rank 7 and Receive Quality Rank 7) per BSC	B1275072052.C1278704480	Sum	hubsvbh, hubtvbh

#### 7.5.54 BSC.Huawei.GSM.TRX\_rxqual\_and\_lvl\_hr\_DL

TRX rx quality and level HR downlink

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
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MRs_dl_TCH H_rx_lvl_R0_ rx_Q_R0	ACCUMULATION	INTEGER	ZS4100D:Num ber of MRs on Downlink TCHH (Receive Level Rank 0 and Receive Quality Rank 0) per BSC	B1275072053.C127 8705481	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R0_ rx_Q_R1	ACCUMULATION	INTEGER	ZS4101D:Num ber of MRs on Downlink TCHH (Receive Level Rank 0 and Receive Quality Rank 1) per BSC	B1275072053.C127 8705482	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R0_ rx_Q_R2	ACCUMULATION	INTEGER	ZS4102D:Num ber of MRs on Downlink TCHH (Receive Level Rank 0 and Receive Quality Rank 2) per BSC	B1275072053.C127 8705483	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R0_ rx_Q_R3	ACCUMULATION	INTEGER	ZS4103D:Num ber of MRs on Downlink TCHH (Receive Level Rank 0 and Receive Quality Rank 3) per BSC	B1275072053.C127 8705484	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R0_ rx_Q_R4	ACCUMULATION	INTEGER	ZS4104D:Num ber of MRs on Downlink TCHH (Receive Level Rank 0 and Receive Quality Rank 4)	B1275072053.C127 8705485	Sum	hubsvbh, hubtvbh

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			per BSC			
MRs_dl_TCH H_rx_lvl_R0_ rx_Q_R5	ACCUMULA TION	INTEG ER	ZS4105D:Num ber of MRs on Downlink TCHH (Receive Level Rank 0 and Receive Quality Rank 5) per BSC	B1275072053.C127 8705486	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R0_ rx_Q_R6	ACCUMULA TION	INTEG ER	ZS4106D:Num ber of MRs on Downlink TCHH (Receive Level Rank 0 and Receive Quality Rank 6) per BSC	B1275072053.C127 8705487	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R0_ rx_Q_R7	ACCUMULA TION	INTEG ER	ZS4107D:Num ber of MRs on Downlink TCHH (Receive Level Rank 0 and Receive Quality Rank 7) per BSC	B1275072053.C127 8705488	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R1_ rx_Q_R0	ACCUMULA TION	INTEG ER	ZS4110D:Num ber of MRs on Downlink TCHH (Receive Level Rank 1 and Receive Quality Rank 0) per BSC	B1275072053.C127 8705489	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R1_ rx_Q_R1	ACCUMULA TION	INTEG ER	ZS4111D:Num ber of MRs on Downlink TCHH (Receive Level Rank 1 and Receive Quality Rank 1) per BSC	B1275072053.C127 8705490	Sum	hubsvbh, hubtvbh
MRs_dl_TCH	ACCUMULA	INTEG	ZS4112D:Num	B1275072053.C127	Sum	hubsvbh,

H_rx_lvl_R1_ rx_Q_R2	TION	ER	ber of MRs on Downlink TCHH (Receive Level Rank 1 and Receive Quality Rank 2) per BSC	8705491		hubtvbh
MRs_dl_TCH H_rx_lvl_R1_ rx_Q_R3	ACCUMULA TION	INTEG ER	ZS4113D:Num ber of MRs on Downlink TCHH (Receive Level Rank 1 and Receive Quality Rank 3) per BSC	B1275072053.C127 8705492	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R1_ rx_Q_R4	ACCUMULA TION	INTEG ER	ZS4114D:Num ber of MRs on Downlink TCHH (Receive Level Rank 1 and Receive Quality Rank 4) per BSC	B1275072053.C127 8705493	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R1_ rx_Q_R5	ACCUMULA TION	INTEG ER	ZS4115D:Num ber of MRs on Downlink TCHH (Receive Level Rank 1 and Receive Quality Rank 5) per BSC	B1275072053.C127 8705494	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R1_ rx_Q_R6	ACCUMULA TION	INTEG ER	ZS4116D:Num ber of MRs on Downlink TCHH (Receive Level Rank 1 and Receive Quality Rank 6) per BSC	B1275072053.C127 8705495	Sum	hubsvbh, hubtvbh

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MRs_dl_TCH H_rx_lvl_R1_ rx_Q_R7	ACCUMULATION	INTEGER	ZS4117D:Num ber of MRs on Downlink TCHH (Receive Level Rank 1 and Receive Quality Rank 7) per BSC	B1275072053.C127 8705496	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R2_ rx_Q_R0	ACCUMULATION	INTEGER	ZS4120D:Num ber of MRs on Downlink TCHH (Receive Level Rank 2 and Receive Quality Rank 0) per BSC	B1275072053.C127 8705497	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R2_ rx_Q_R1	ACCUMULATION	INTEGER	ZS4121D:Num ber of MRs on Downlink TCHH (Receive Level Rank 2 and Receive Quality Rank 1) per BSC	B1275072053.C127 8705498	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R2_ rx_Q_R2	ACCUMULATION	INTEGER	ZS4122D:Num ber of MRs on Downlink TCHH (Receive Level Rank 2 and Receive Quality Rank 2) per BSC	B1275072053.C127 8705499	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R2_ rx_Q_R3	ACCUMULATION	INTEGER	ZS4123D:Num ber of MRs on Downlink TCHH (Receive Level Rank 2 and Receive Quality Rank 3) per BSC	B1275072053.C127 8705500	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R2_ rx_Q_R4	ACCUMULATION	INTEGER	ZS4124D:Num ber of MRs on Downlink	B1275072053.C127 8705501	Sum	hubsvbh, hubtvbh

			TCHH (Receive Level Rank 2 and Receive Quality Rank 4) per BSC			
MRs_dl_TCH H_rx_lvl_R2_ rx_Q_R5	ACCUMULATION	INTEGER	ZS4125D: Number of MRs on Downlink TCHH (Receive Level Rank 2 and Receive Quality Rank 5) per BSC	B1275072053.C127 8705502	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R2_ rx_Q_R6	ACCUMULATION	INTEGER	ZS4126D: Number of MRs on Downlink TCHH (Receive Level Rank 2 and Receive Quality Rank 6) per BSC	B1275072053.C127 8705503	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R2_ rx_Q_R7	ACCUMULATION	INTEGER	ZS4127D: Number of MRs on Downlink TCHH (Receive Level Rank 2 and Receive Quality Rank 7) per BSC	B1275072053.C127 8705504	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R3_ rx_Q_R0	ACCUMULATION	INTEGER	ZS4130D: Number of MRs on Downlink TCHH (Receive Level Rank 3 and Receive Quality Rank 0) per BSC	B1275072053.C127 8705505	Sum	hubsvbh, hubtvbh
MRs_dl_TCH	ACCUMULATION	INTEGER	ZS4131D: Num	B1275072053.C127	Sum	hubsvbh,

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H_rx_lvl_R3_ rx_Q_R1	TION	ER	ber of MRs on Downlink TCHH (Receive Level Rank 3 and Receive Quality Rank 1) per BSC	8705506		hubtvbh
MRs_dl_TCH H_rx_lvl_R3_ rx_Q_R2	ACCUMULA TION	INTEG ER	ZS4132D:Num ber of MRs on Downlink TCHH (Receive Level Rank 3 and Receive Quality Rank 2) per BSC	B1275072053.C127 8705507	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R3_ rx_Q_R3	ACCUMULA TION	INTEG ER	ZS4133D:Num ber of MRs on Downlink TCHH (Receive Level Rank 3 and Receive Quality Rank 3) per BSC	B1275072053.C127 8705508	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R3_ rx_Q_R4	ACCUMULA TION	INTEG ER	ZS4134D:Num ber of MRs on Downlink TCHH (Receive Level Rank 3 and Receive Quality Rank 4) per BSC	B1275072053.C127 8705509	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R3_ rx_Q_R5	ACCUMULA TION	INTEG ER	ZS4135D:Num ber of MRs on Downlink TCHH (Receive Level Rank 3 and Receive Quality Rank 5) per BSC	B1275072053.C127 8705510	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R3_ rx_Q_R6	ACCUMULA TION	INTEG ER	ZS4136D:Num ber of MRs on Downlink TCHH (Receive	B1275072053.C127 8705511	Sum	hubsvbh, hubtvbh

			Level Rank 3 and Receive Quality Rank 6) per BSC			
MRs_dl_TCH H_rx_lvl_R3_ rx_Q_R7	ACCUMULATION	INTEGER	ZS4137D: Number of MRs on Downlink TCHH (Receive Level Rank 3 and Receive Quality Rank 7) per BSC	B1275072053.C127 8705512	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R4_ rx_Q_R0	ACCUMULATION	INTEGER	ZS4140D: Number of MRs on Downlink TCHH (Receive Level Rank 4 and Receive Quality Rank 0) per BSC	B1275072053.C127 8705513	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R4_ rx_Q_R1	ACCUMULATION	INTEGER	ZS4141D: Number of MRs on Downlink TCHH (Receive Level Rank 4 and Receive Quality Rank 1) per BSC	B1275072053.C127 8705514	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R4_ rx_Q_R2	ACCUMULATION	INTEGER	ZS4142D: Number of MRs on Downlink TCHH (Receive Level Rank 4 and Receive Quality Rank 2) per BSC	B1275072053.C127 8705515	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R4_	ACCUMULATION	INTEGER	ZS4143D: Number of MRs on	B1275072053.C127 8705516	Sum	hubsvbh, hubtvbh

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rx_Q_R3			Downlink TCHH (Receive Level Rank 4 and Receive Quality Rank 3) per BSC			
MRs_dl_TCH H_rx_lvl_R4_ rx_Q_R4	ACCUMULATION	INTEGER	ZS4144D: Number of MRs on Downlink TCHH (Receive Level Rank 4 and Receive Quality Rank 4) per BSC	B1275072053.C127 8705517	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R4_ rx_Q_R5	ACCUMULATION	INTEGER	ZS4145D: Number of MRs on Downlink TCHH (Receive Level Rank 4 and Receive Quality Rank 5) per BSC	B1275072053.C127 8705518	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R4_ rx_Q_R6	ACCUMULATION	INTEGER	ZS4146D: Number of MRs on Downlink TCHH (Receive Level Rank 4 and Receive Quality Rank 6) per BSC	B1275072053.C127 8705519	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R4_ rx_Q_R7	ACCUMULATION	INTEGER	ZS4147D: Number of MRs on Downlink TCHH (Receive Level Rank 4 and Receive Quality Rank 7) per BSC	B1275072053.C127 8705520	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R5_ rx_Q_R0	ACCUMULATION	INTEGER	ZS4150D: Number of MRs on Downlink TCHH (Receive Level Rank 5	B1275072053.C127 8705521	Sum	hubsvbh, hubtvbh

			and Receive Quality Rank 0) per BSC			
MRs_dl_TCH H_rx_lvl_R5_ rx_Q_R1	ACCUMULATION	INTEGER	ZS4151D: Number of MRs on Downlink TCHH (Receive Level Rank 5 and Receive Quality Rank 1) per BSC	B1275072053.C127 8705522	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R5_ rx_Q_R2	ACCUMULATION	INTEGER	ZS4152D: Number of MRs on Downlink TCHH (Receive Level Rank 5 and Receive Quality Rank 2) per BSC	B1275072053.C127 8705523	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R5_ rx_Q_R3	ACCUMULATION	INTEGER	ZS4153D: Number of MRs on Downlink TCHH (Receive Level Rank 5 and Receive Quality Rank 3) per BSC	B1275072053.C127 8705524	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R5_ rx_Q_R4	ACCUMULATION	INTEGER	ZS4154D: Number of MRs on Downlink TCHH (Receive Level Rank 5 and Receive Quality Rank 4) per BSC	B1275072053.C127 8705525	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R5_ rx_Q_R5	ACCUMULATION	INTEGER	ZS4155D: Number of MRs on Downlink	B1275072053.C127 8705526	Sum	hubsvbh, hubtvbh

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			TCHH (Receive Level Rank 5 and Receive Quality Rank 5) per BSC			
MRs_dl_TCH H_rx_lvl_R5_ rx_Q_R6	ACCUMULATION	INTEGER	ZS4156D: Number of MRs on Downlink TCHH (Receive Level Rank 5 and Receive Quality Rank 6) per BSC	B1275072053.C127 8705527	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R5_ rx_Q_R7	ACCUMULATION	INTEGER	ZS4157D: Number of MRs on Downlink TCHH (Receive Level Rank 5 and Receive Quality Rank 7) per BSC	B1275072053.C127 8705528	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R6_ rx_Q_R0	ACCUMULATION	INTEGER	ZS4160D: Number of MRs on Downlink TCHH (Receive Level Rank 6 and Receive Quality Rank 0) per BSC	B1275072053.C127 8705529	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R6_ rx_Q_R1	ACCUMULATION	INTEGER	ZS4161D: Number of MRs on Downlink TCHH (Receive Level Rank 6 and Receive Quality Rank 1) per BSC	B1275072053.C127 8705530	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R6_ rx_Q_R2	ACCUMULATION	INTEGER	ZS4162D: Number of MRs on Downlink TCHH (Receive Level Rank 6 and Receive	B1275072053.C127 8705531	Sum	hubsvbh, hubtvbh

			Quality Rank 2) per BSC			
MRs_dl_TCH H_rx_lvl_R6_ rx_Q_R3	ACCUMULA TION	INTEG ER	ZS4163D:Num ber of MRs on Downlink TCHH (Receive Level Rank 6 and Receive Quality Rank 3) per BSC	B1275072053.C127 8705532	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R6_ rx_Q_R4	ACCUMULA TION	INTEG ER	ZS4164D:Num ber of MRs on Downlink TCHH (Receive Level Rank 6 and Receive Quality Rank 4) per BSC	B1275072053.C127 8705533	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R6_ rx_Q_R5	ACCUMULA TION	INTEG ER	ZS4165D:Num ber of MRs on Downlink TCHH (Receive Level Rank 6 and Receive Quality Rank 5) per BSC	B1275072053.C127 8705534	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R6_ rx_Q_R6	ACCUMULA TION	INTEG ER	ZS4166D:Num ber of MRs on Downlink TCHH (Receive Level Rank 6 and Receive Quality Rank 6) per BSC	B1275072053.C127 8705535	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R6_ rx_Q_R7	ACCUMULA TION	INTEG ER	ZS4167D:Num ber of MRs on Downlink TCHH (Receive	B1275072053.C127 8705536	Sum	hubsvbh, hubtvbh

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			Level Rank 6 and Receive Quality Rank 7) per BSC			
MRs_dl_TCH H_rx_lvl_R7_ rx_Q_R0	ACCUMULATION	INTEGER	ZS4170D: Number of MRs on Downlink TCHH (Receive Level Rank 7 and Receive Quality Rank 0) per BSC	B1275072053.C127 8705537	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R7_ rx_Q_R1	ACCUMULATION	INTEGER	ZS4171D: Number of MRs on Downlink TCHH (Receive Level Rank 7 and Receive Quality Rank 1) per BSC	B1275072053.C127 8705538	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R7_ rx_Q_R2	ACCUMULATION	INTEGER	ZS4172D: Number of MRs on Downlink TCHH (Receive Level Rank 7 and Receive Quality Rank 2) per BSC	B1275072053.C127 8705539	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R7_ rx_Q_R3	ACCUMULATION	INTEGER	ZS4173D: Number of MRs on Downlink TCHH (Receive Level Rank 7 and Receive Quality Rank 3) per BSC	B1275072053.C127 8705540	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R7_ rx_Q_R4	ACCUMULATION	INTEGER	ZS4174D: Number of MRs on Downlink TCHH (Receive Level Rank 7 and Receive Quality Rank 4)	B1275072053.C127 8705541	Sum	hubsvbh, hubtvbh

			per BSC			
MRs_dl_TCH H_rx_lvl_R7_ rx_Q_R5	ACCUMULATION	INTEGER	ZS4175D: Number of MRs on Downlink TCHH (Receive Level Rank 7 and Receive Quality Rank 5) per BSC	B1275072053.C127 8705542	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R7_ rx_Q_R6	ACCUMULATION	INTEGER	ZS4176D: Number of MRs on Downlink TCHH (Receive Level Rank 7 and Receive Quality Rank 6) per BSC	B1275072053.C127 8705543	Sum	hubsvbh, hubtvbh
MRs_dl_TCH H_rx_lvl_R7_ rx_Q_R7	ACCUMULATION	INTEGER	ZS4177D: Number of MRs on Downlink TCHH (Receive Level Rank 7 and Receive Quality Rank 7) per BSC	B1275072053.C127 8705544	Sum	hubsvbh, hubtvbh

### 7.5.55 BSC.Huawei.GSM.TRX\_rxqual\_and\_lvl\_hr\_UL

TRX receive quality and level HR uplink

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
MRs_ul_TCH H_rx_lvl_R0_ rx_Q_R0	ACCUMULATION	INTEGER	ZS4100C: Number of MRs on Uplink TCHH (Receive Level Rank 0 and Receive Quality	B1275072053.C127 8705417	Sum	hubsvbh, hubtvbh

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			Rank 0) per BSC			
MRs_ul_TCH H_rx_lvl_R0_ rx_Q_R1	ACCUMULATION	INTEGER	ZS4101C: Number of MRs on Uplink TCHH (Receive Level Rank 0 and Receive Quality Rank 1) per BSC	B1275072053.C127 8705418	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R0_ rx_Q_R2	ACCUMULATION	INTEGER	ZS4102C: Number of MRs on Uplink TCHH (Receive Level Rank 0 and Receive Quality Rank 2) per BSC	B1275072053.C127 8705419	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R0_ rx_Q_R3	ACCUMULATION	INTEGER	ZS4103C: Number of MRs on Uplink TCHH (Receive Level Rank 0 and Receive Quality Rank 3) per BSC	B1275072053.C127 8705420	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R0_ rx_Q_R4	ACCUMULATION	INTEGER	ZS4104C: Number of MRs on Uplink TCHH (Receive Level Rank 0 and Receive Quality Rank 4) per BSC	B1275072053.C127 8705421	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R0_ rx_Q_R5	ACCUMULATION	INTEGER	ZS4105C: Number of MRs on Uplink TCHH (Receive Level Rank 0 and Receive Quality Rank 5) per BSC	B1275072053.C127 8705422	Sum	hubsvbh, hubtvbh

MRs_ul_TCH H_rx_lvl_R0_ rx_Q_R6	ACCUMULATION	INTEGER	ZS4106C: Number of MRs on Uplink TCHH (Receive Level Rank 0 and Receive Quality Rank 6) per BSC	B1275072053.C127 8705423	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R0_ rx_Q_R7	ACCUMULATION	INTEGER	ZS4107C: Number of MRs on Uplink TCHH (Receive Level Rank 0 and Receive Quality Rank 7) per BSC	B1275072053.C127 8705424	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R1_ rx_Q_R0	ACCUMULATION	INTEGER	ZS4110C: Number of MRs on Uplink TCHH (Receive Level Rank 1 and Receive Quality Rank 0) per BSC	B1275072053.C127 8705425	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R1_ rx_Q_R1	ACCUMULATION	INTEGER	ZS4111C: Number of MRs on Uplink TCHH (Receive Level Rank 1 and Receive Quality Rank 1) per BSC	B1275072053.C127 8705426	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R1_ rx_Q_R2	ACCUMULATION	INTEGER	ZS4112C: Number of MRs on Uplink TCHH (Receive Level Rank 1 and Receive Quality Rank 2) per BSC	B1275072053.C127 8705427	Sum	hubsvbh, hubtvbh

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			BSC			
MRs_ul_TCH H_rx_lvl_R1_ rx_Q_R3	ACCUMULA TION	INTEG ER	ZS4113C:Num ber of MRs on Uplink TCHH (Receive Level Rank 1 and Receive Quality Rank 3) per BSC	B1275072053.C127 8705428	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R1_ rx_Q_R4	ACCUMULA TION	INTEG ER	ZS4114C:Num ber of MRs on Uplink TCHH (Receive Level Rank 1 and Receive Quality Rank 4) per BSC	B1275072053.C127 8705429	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R1_ rx_Q_R5	ACCUMULA TION	INTEG ER	ZS4115C:Num ber of MRs on Uplink TCHH (Receive Level Rank 1 and Receive Quality Rank 5) per BSC	B1275072053.C127 8705430	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R1_ rx_Q_R6	ACCUMULA TION	INTEG ER	ZS4116C:Num ber of MRs on Uplink TCHH (Receive Level Rank 1 and Receive Quality Rank 6) per BSC	B1275072053.C127 8705431	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R1_ rx_Q_R7	ACCUMULA TION	INTEG ER	ZS4117C:Num ber of MRs on Uplink TCHH (Receive Level Rank 1 and Receive Quality Rank 7) per BSC	B1275072053.C127 8705432	Sum	hubsvbh, hubtvbh
MRs_ul_TCH	ACCUMULA	INTEG	ZS4120C:Num	B1275072053.C127	Sum	hubsvbh,

H_rx_lvl_R2_ rx_Q_R0	TION	ER	ber of MRs on Uplink TCHH (Receive Level Rank 2 and Receive Quality Rank 0) per BSC	8705433		hubtvbh
MRs_ul_TCH H_rx_lvl_R2_ rx_Q_R1	ACCUMULA TION	INTEG ER	ZS4121C:Num ber of MRs on Uplink TCHH (Receive Level Rank 2 and Receive Quality Rank 1) per BSC	B1275072053.C127 8705434	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R2_ rx_Q_R2	ACCUMULA TION	INTEG ER	ZS4122C:Num ber of MRs on Uplink TCHH (Receive Level Rank 2 and Receive Quality Rank 2) per BSC	B1275072053.C127 8705435	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R2_ rx_Q_R3	ACCUMULA TION	INTEG ER	ZS4123C:Num ber of MRs on Uplink TCHH (Receive Level Rank 2 and Receive Quality Rank 3) per BSC	B1275072053.C127 8705436	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R2_ rx_Q_R4	ACCUMULA TION	INTEG ER	ZS4124C:Num ber of MRs on Uplink TCHH (Receive Level Rank 2 and Receive Quality Rank 4) per BSC	B1275072053.C127 8705437	Sum	hubsvbh, hubtvbh

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MRs_ul_TCH H_rx_lvl_R2_ rx_Q_R5	ACCUMULATION	INTEGER	ZS4125C: Number of MRs on Uplink TCHH (Receive Level Rank 2 and Receive Quality Rank 5) per BSC	B1275072053.C127 8705438	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R2_ rx_Q_R6	ACCUMULATION	INTEGER	ZS4126C: Number of MRs on Uplink TCHH (Receive Level Rank 2 and Receive Quality Rank 6) per BSC	B1275072053.C127 8705439	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R2_ rx_Q_R7	ACCUMULATION	INTEGER	ZS4127C: Number of MRs on Uplink TCHH (Receive Level Rank 2 and Receive Quality Rank 7) per BSC	B1275072053.C127 8705440	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R3_ rx_Q_R0	ACCUMULATION	INTEGER	ZS4130C: Number of MRs on Uplink TCHH (Receive Level Rank 3 and Receive Quality Rank 0) per BSC	B1275072053.C127 8705441	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R3_ rx_Q_R1	ACCUMULATION	INTEGER	ZS4131C: Number of MRs on Uplink TCHH (Receive Level Rank 3 and Receive Quality Rank 1) per BSC	B1275072053.C127 8705442	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R3_ rx_Q_R2	ACCUMULATION	INTEGER	ZS4132C: Number of MRs on Uplink TCHH	B1275072053.C127 8705443	Sum	hubsvbh, hubtvbh

			(Receive Level Rank 3 and Receive Quality Rank 2) per BSC			
MRs_ul_TCH H_rx_lvl_R3_ rx_Q_R3	ACCUMULATION	INTEGER	ZS4133C: Number of MRs on Uplink TCHH (Receive Level Rank 3 and Receive Quality Rank 3) per BSC	B1275072053.C127 8705444	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R3_ rx_Q_R4	ACCUMULATION	INTEGER	ZS4134C: Number of MRs on Uplink TCHH (Receive Level Rank 3 and Receive Quality Rank 4) per BSC	B1275072053.C127 8705445	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R3_ rx_Q_R5	ACCUMULATION	INTEGER	ZS4135C: Number of MRs on Uplink TCHH (Receive Level Rank 3 and Receive Quality Rank 5) per BSC	B1275072053.C127 8705446	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R3_ rx_Q_R6	ACCUMULATION	INTEGER	ZS4136C: Number of MRs on Uplink TCHH (Receive Level Rank 3 and Receive Quality Rank 6) per BSC	B1275072053.C127 8705447	Sum	hubsvbh, hubtvbh
MRs_ul_TCH	ACCUMULATION	INTEGER	ZS4137C: Num	B1275072053.C127	Sum	hubsvbh,

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H_rx_lvl_R3_ rx_Q_R7	TION	ER	ber of MRs on Uplink TCHH (Receive Level Rank 3 and Receive Quality Rank 7) per BSC	8705448		hubtvbh
MRs_ul_TCH H_rx_lvl_R4_ rx_Q_R0	ACCUMULA TION	INTEG ER	ZS4140C:Num ber of MRs on Uplink TCHH (Receive Level Rank 4 and Receive Quality Rank 0) per BSC	B1275072053.C127 8705449	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R4_ rx_Q_R1	ACCUMULA TION	INTEG ER	ZS4141C:Num ber of MRs on Uplink TCHH (Receive Level Rank 4 and Receive Quality Rank 1) per BSC	B1275072053.C127 8705450	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R4_ rx_Q_R2	ACCUMULA TION	INTEG ER	ZS4142C:Num ber of MRs on Uplink TCHH (Receive Level Rank 4 and Receive Quality Rank 2) per BSC	B1275072053.C127 8705451	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R4_ rx_Q_R3	ACCUMULA TION	INTEG ER	ZS4143C:Num ber of MRs on Uplink TCHH (Receive Level Rank 4 and Receive Quality Rank 3) per BSC	B1275072053.C127 8705452	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R4_ rx_Q_R4	ACCUMULA TION	INTEG ER	ZS4144C:Num ber of MRs on Uplink TCHH (Receive Level	B1275072053.C127 8705453	Sum	hubsvbh, hubtvbh

			Rank 4 and Receive Quality Rank 4) per BSC			
MRs_ul_TCH H_rx_lvl_R4_ rx_Q_R5	ACCUMULATION	INTEGER	ZS4145C: Number of MRs on Uplink TCHH (Receive Level Rank 4 and Receive Quality Rank 5) per BSC	B1275072053.C127 8705454	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R4_ rx_Q_R6	ACCUMULATION	INTEGER	ZS4146C: Number of MRs on Uplink TCHH (Receive Level Rank 4 and Receive Quality Rank 6) per BSC	B1275072053.C127 8705455	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R4_ rx_Q_R7	ACCUMULATION	INTEGER	ZS4147C: Number of MRs on Uplink TCHH (Receive Level Rank 4 and Receive Quality Rank 7) per BSC	B1275072053.C127 8705456	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R5_ rx_Q_R0	ACCUMULATION	INTEGER	ZS4150C: Number of MRs on Uplink TCHH (Receive Level Rank 5 and Receive Quality Rank 0) per BSC	B1275072053.C127 8705457	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R5_	ACCUMULATION	INTEGER	ZS4151C: Number of MRs on	B1275072053.C127 8705458	Sum	hubsvbh, hubtvbh

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rx_Q_R1			Uplink TCHH (Receive Level Rank 5 and Receive Quality Rank 1) per BSC			
MRs_ul_TCH H_rx_lvl_R5_ rx_Q_R2	ACCUMULATION	INTEGER	ZS4152C: Number of MRs on Uplink TCHH (Receive Level Rank 5 and Receive Quality Rank 2) per BSC	B1275072053.C127 8705459	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R5_ rx_Q_R3	ACCUMULATION	INTEGER	ZS4153C: Number of MRs on Uplink TCHH (Receive Level Rank 5 and Receive Quality Rank 3) per BSC	B1275072053.C127 8705460	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R5_ rx_Q_R4	ACCUMULATION	INTEGER	ZS4154C: Number of MRs on Uplink TCHH (Receive Level Rank 5 and Receive Quality Rank 4) per BSC	B1275072053.C127 8705461	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R5_ rx_Q_R5	ACCUMULATION	INTEGER	ZS4155C: Number of MRs on Uplink TCHH (Receive Level Rank 5 and Receive Quality Rank 5) per BSC	B1275072053.C127 8705462	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R5_ rx_Q_R6	ACCUMULATION	INTEGER	ZS4156C: Number of MRs on Uplink TCHH (Receive Level Rank 5 and	B1275072053.C127 8705463	Sum	hubsvbh, hubtvbh

			Receive Quality Rank 6) per BSC			
MRs_ul_TCH H_rx_lvl_R5_ rx_Q_R7	ACCUMULATION	INTEGER	ZS4157C: Number of MRs on Uplink TCHH (Receive Level Rank 5 and Receive Quality Rank 7) per BSC	B1275072053.C127 8705464	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R6_ rx_Q_R0	ACCUMULATION	INTEGER	ZS4160C: Number of MRs on Uplink TCHH (Receive Level Rank 6 and Receive Quality Rank 0) per BSC	B1275072053.C127 8705465	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R6_ rx_Q_R1	ACCUMULATION	INTEGER	ZS4161C: Number of MRs on Uplink TCHH (Receive Level Rank 6 and Receive Quality Rank 1) per BSC	B1275072053.C127 8705466	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R6_ rx_Q_R2	ACCUMULATION	INTEGER	ZS4162C: Number of MRs on Uplink TCHH (Receive Level Rank 6 and Receive Quality Rank 2) per BSC	B1275072053.C127 8705467	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R6_ rx_Q_R3	ACCUMULATION	INTEGER	ZS4163C: Number of MRs on Uplink TCHH	B1275072053.C127 8705468	Sum	hubsvbh, hubtvbh

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			(Receive Level Rank 6 and Receive Quality Rank 3) per BSC			
MRs_ul_TCH H_rx_lvl_R6_ rx_Q_R4	ACCUMULATION	INTEGER	ZS4164C: Number of MRs on Uplink TCHH (Receive Level Rank 6 and Receive Quality Rank 4) per BSC	B1275072053.C127 8705469	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R6_ rx_Q_R5	ACCUMULATION	INTEGER	ZS4165C: Number of MRs on Uplink TCHH (Receive Level Rank 6 and Receive Quality Rank 5) per BSC	B1275072053.C127 8705470	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R6_ rx_Q_R6	ACCUMULATION	INTEGER	ZS4166C: Number of MRs on Uplink TCHH (Receive Level Rank 6 and Receive Quality Rank 6) per BSC	B1275072053.C127 8705471	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R6_ rx_Q_R7	ACCUMULATION	INTEGER	ZS4167C: Number of MRs on Uplink TCHH (Receive Level Rank 6 and Receive Quality Rank 7) per BSC	B1275072053.C127 8705472	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R7_ rx_Q_R0	ACCUMULATION	INTEGER	ZS4170C: Number of MRs on Uplink TCHH (Receive Level Rank 7 and Receive Quality	B1275072053.C127 8705473	Sum	hubsvbh, hubtvbh

			Rank 0) per BSC			
MRs_ul_TCH H_rx_lvl_R7_ rx_Q_R1	ACCUMULATION	INTEGER	ZS4171C: Number of MRs on Uplink TCHH (Receive Level Rank 7 and Receive Quality Rank 1) per BSC	B1275072053.C127 8705474	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R7_ rx_Q_R2	ACCUMULATION	INTEGER	ZS4172C: Number of MRs on Uplink TCHH (Receive Level Rank 7 and Receive Quality Rank 2) per BSC	B1275072053.C127 8705475	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R7_ rx_Q_R3	ACCUMULATION	INTEGER	ZS4173C: Number of MRs on Uplink TCHH (Receive Level Rank 7 and Receive Quality Rank 3) per BSC	B1275072053.C127 8705476	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R7_ rx_Q_R4	ACCUMULATION	INTEGER	ZS4174C: Number of MRs on Uplink TCHH (Receive Level Rank 7 and Receive Quality Rank 4) per BSC	B1275072053.C127 8705477	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R7_ rx_Q_R5	ACCUMULATION	INTEGER	ZS4175C: Number of MRs on Uplink TCHH (Receive Level	B1275072053.C127 8705478	Sum	hubsvbh, hubtvbh

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			Rank 7 and Receive Quality Rank 5) per BSC			
MRs_ul_TCH H_rx_lvl_R7_ rx_Q_R6	ACCUMULATION	INTEGER	ZS4176C: Number of MRs on Uplink TCHH (Receive Level Rank 7 and Receive Quality Rank 6) per BSC	B1275072053.C127 8705479	Sum	hubsvbh, hubtvbh
MRs_ul_TCH H_rx_lvl_R7_ rx_Q_R7	ACCUMULATION	INTEGER	ZS4177C: Number of MRs on Uplink TCHH (Receive Level Rank 7 and Receive Quality Rank 7) per BSC	B1275072053.C127 8705480	Sum	hubsvbh, hubtvbh

### 7.5.56 BSC.Huawei.GSM.VBS\_Setup

Measurement per BSC to measure the number of VBS setup requests received by the BSC and the number of times that the VBS call is set up successfully.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
SUCC_VBS_SETUP	ACCUMULATION	INT8	A03404: Successful VBS SETUP	B1275071518.C127 8170418	Sum	hubsvbh, hubtvbh
VBS_SETUP_RQ	ACCUMULATION	INT8	A03403: VBS SETUP Request	B1275071518.C127 8170417	Sum	hubsvbh, hubtvbh

### 7.5.57 BSC.Huawei.GSM.VGCS\_Setup

Measurement per BSC to measure the number of VGCS setup requests received by the BSC and the number of times that the VGCS call is set up successfully.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
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SUCC_VGCS_SETUP	ACCUMULATION	INT8	A03402:Successful VGCS SETUP	B1275071517.C1278169418	Sum	hubsvbh, hubtvbh
VGCS_SETUP_RQ	ACCUMULATION	INT8	A03401:VGCS SETUP Request	B1275071517.C1278169417	Sum	hubsvbh, hubtvbh

### 7.5.58 BSC.Huawei.GSM.VGCS\_VBS\_measurement

VGCS/VBS Measurement per BSC to measure the VGCS/VBS of all the cells controlled by a BSC.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ATT_ICINT_INTRAC_VGCS_TCH_HO_RQ	ACCUMULATION	INT8	ZTA03440:Attempted Incoming Internal Intra-Cell VGCS TCH Handover Requests per BSC	B1275072055.C1278707456	Sum	hubsvbh, hubtvbh
ATT_ICINTERB_INTERCVGCS_TCH_HO	ACCUMULATION	INT8	ZTA03446:Attempted Incoming Inter-BSC Inter-Cell VGCS TCH Handovers per BSC	B1275072055.C1278707462	Sum	hubsvbh, hubtvbh
ATT_INTRAC_VGCS_TCH_D TCH_HO	ACCUMULATION	INT8	ZTA03438:Attempted Intra-cell VGCS TCH to Dedicated TCH Handovers per BSC	B1275072055.C1278707454	Sum	hubsvbh, hubtvbh
ATT_OGINT_INTRAC_VGCS_TCH_HO_RQ	ACCUMULATION	INT8	ZTA03443:Attempted Outgoing Internal Intra-Cell VGCS	B1275072055.C1278707459	Sum	hubsvbh, hubtvbh

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			TCH Handover Requests per BSC			
ATT_OGINTE RB_INTERC_V GCS_TCH_HO	ACCUMULATION	INT8	ZTA03449: Attempted Outgoing Inter-BSC Inter-Cell VGCS TCH Handovers per BSC	B1275072055.C12 78707465	Sum	hubsvbh, hubtvbh
ATT_PREEMP T_IN_VBS_A SG	ACCUMULATION	INT8	ZTA03429: Attempted Preemptions in VBS Assignment Procedure per BSC	B1275072055.C12 78707445	Sum	hubsvbh, hubtvbh
ATT_PREEMP T_IN_VGCS_A SG	ACCUMULATION	INT8	ZTA03414: Attempted Preemptions in VGCS Assignment Procedure per BSC	B1275072055.C12 78707430	Sum	hubsvbh, hubtvbh
ATT_VGCS_T CH_HO_BETT ER_CELL	ACCUMULATION	INT8	ZTA03459: Attempted VGCS TCH Handovers for Better Cell per BSC	B1275072055.C12 78707475	Sum	hubsvbh, hubtvbh
ATT_VGCS_T CH_HO_DL_Q UALITY	ACCUMULATION	INT8	ZTA03455: Attempted VGCS TCH Handovers for Downlink Quality per BSC	B1275072055.C12 78707471	Sum	hubsvbh, hubtvbh
ATT_VGCS_T CH_HO_DL_S TRENTH	ACCUMULATION	INT8	ZTA03457: Attempted VGCS TCH Handovers for Downlink	B1275072055.C12 78707473	Sum	hubsvbh, hubtvbh

			Strength per BSC			
ATT_VGCS_TCH_HO_F_SHE T	ACCUMULATION	INT8	ZTA03452:Attempted VGCS TCH Handovers for Frequency Shift per BSC	B1275072055.C12 78707468	Sum	hubsvbh, hubtvbh
ATT_VGCS_TCH_HO_OM_I TVN	ACCUMULATION	INT8	ZTA03463:Attempted VGCS TCH Handovers for OM Intervention per BSC	B1275072055.C12 78707479	Sum	hubsvbh, hubtvbh
ATT_VGCS_TCH_HO_OTHE RS	ACCUMULATION	INT8	ZTA03464:Attempted VGCS TCH Handovers for Other Causes per BSC	B1275072055.C12 78707480	Sum	hubsvbh, hubtvbh
ATT_VGCS_TCH_HO_QUIC K_PBGT	ACCUMULATION	INT8	ZTA03453:Attempted VGCS TCH Handovers for Quick PBGT per BSC	B1275072055.C12 78707469	Sum	hubsvbh, hubtvbh
ATT_VGCS_TCH_HO_RAPI D_RX_DROP	ACCUMULATION	INT8	ZTA03461:Attempted VGCS TCH Handovers for Rapid Rxlevel Drop per BSC	B1275072055.C12 78707477	Sum	hubsvbh, hubtvbh
ATT_VGCS_TCH_HO_RESP_ MSC_ITVN	ACCUMULATION	INT8	ZTA03462:Attempted VGCS TCH Handovers for Response to	B1275072055.C12 78707478	Sum	hubsvbh, hubtvbh

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			MSC Intervention per BSC			
ATT_VGCS_T CH_HO_TIMIN G_ADV	ACCUMULA TION	INT8	ZTA03458:Atte mpted VGCS TCH Handovers for Timing Advance per BSC	B1275072055.C12 78707474	Sum	hubsvbh, hubtvbh
ATT_VGCS_T CH_HO_TRAF _LOAD	ACCUMULA TION	INT8	ZTA03460:Atte mpted VGCS TCH Handovers for Traffic Load per BSC	B1275072055.C12 78707476	Sum	hubsvbh, hubtvbh
ATT_VGCS_T CH_HO_UL_Q UALITY	ACCUMULA TION	INT8	ZTA03454:Atte mpted VGCS TCH Handovers for Uplink Quality per BSC	B1275072055.C12 78707470	Sum	hubsvbh, hubtvbh
ATT_VGCS_T CH_HO_UL_S TRENGTH	ACCUMULA TION	INT8	ZTA03456:Atte mpted VGCS TCH Handovers for Uplink Strength per BSC	B1275072055.C12 78707472	Sum	hubsvbh, hubtvbh
BUSY_VBS_D L_TCHS	ACCUMULA TION	INT8	ZTA03488:Nu mber of Busy VBS DownLink TCHs Per BSC	B1275072055.C12 78707504	Sum	hubsvbh, hubtvbh
BUSY_VBS_U L_TCHS	ACCUMULA TION	INT8	ZTA03487:Nu mber of Busy VBS Uplink TCHs per BSC	B1275072055.C12 78707503	Sum	hubsvbh, hubtvbh
BUSY_VGCS_ DL_TCHS	ACCUMULA TION	INT8	ZTA03486:Nu mber of Busy VGCS Downlink TCHs Per BSC	B1275072055.C12 78707502	Sum	hubsvbh, hubtvbh

BUSY_VGCS_UL_TCHS	ACCUMULATION	INT8	ZTA03485: Number of Busy VGCS Uplink TCHs per BSC	B1275072055.C1278707501	Sum	hubsvbh, hubtvbh
CHAN_ACTIVE_NACK_IN_VBS_ASG	ACCUMULATION	INT8	ZTA03425: CHANNEL ACTIVE NACK Messages Sent by BTS in VBS Assignment Procedure per BSC	B1275072055.C1278707441	Sum	hubsvbh, hubtvbh
CHAN_ACTIVE_NACK_IN_VGCS_ASG	ACCUMULATION	INT8	ZTA03410: CHANNEL ACTIVE NACK Messages Sent by BTS in VGCS Assignment Procedure per BSC	B1275072055.C1278707426	Sum	hubsvbh, hubtvbh
FAIL_VBS_ASG_ASG_TIME_D_OUT	ACCUMULATION	INT8	ZTA03426: Failed VBS Assignments (Assignment Timed Out) per BSC	B1275072055.C1278707442	Sum	hubsvbh, hubtvbh
FAIL_VBS_ASG_CHNL_UNAVL	ACCUMULATION	INT8	ZTA03423: Failed VBS Assignments per BSC (Channel Unavailable)	B1275072055.C1278707439	Sum	hubsvbh, hubtvbh
FAIL_VBS_ASG_EQUIPMENT_FAIL	ACCUMULATION	INT8	ZTA03419: Failed VBS Assignments per BSC (Equipment	B1275072055.C1278707435	Sum	hubsvbh, hubtvbh

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			Failure)			
FAIL_VBS_ASG_INVALID_MSG	ACCUMULATION	INT8	ZTA03422:Failed VBS Assignments per BSC (Invalid Message)	B1275072055.C1278707438	Sum	hubsvbh, hubtvbh
FAIL_VBS_ASG_OR_CAUSES	ACCUMULATION	INT8	ZTA03424:Failed VBS Assignments per BSC (Other Causes)	B1275072055.C1278707440	Sum	hubsvbh, hubtvbh
FAIL_VBS_ASG_RQ_TRES_UNAVL	ACCUMULATION	INT8	ZTA03420:Failed VBS Assignments per BSC (Requested Terrestrial Resource Unavailable)	B1275072055.C1278707436	Sum	hubsvbh, hubtvbh
FAIL_VBS_ASG_TRES_ALLOC	ACCUMULATION	INT8	ZTA03421:Failed VBS Assignments per BSC (Terrestrial Resource Already Allocated)	B1275072055.C1278707437	Sum	hubsvbh, hubtvbh
FAIL_VBS_ASG	ACCUMULATION	INT8	ZTA03418:Failed VBS Assignments per BSC	B1275072055.C1278707434	Sum	hubsvbh, hubtvbh
FAIL_VGCS_ASG_ASG_TIME_D_OUT	ACCUMULATION	INT8	ZTA03411:Failed VGCS Assignments (Assignment Timed Out) per BSC	B1275072055.C1278707427	Sum	hubsvbh, hubtvbh
FAIL_VGCS_ASG_CHNL_UNAVL	ACCUMULATION	INT8	ZTA03408:Failed VGCS Assignments	B1275072055.C1278707424	Sum	hubsvbh, hubtvbh

			per BSC (Channel Unavailable)			
FAIL_VGCS_A SG_EQUIPME NT_FAIL	ACCUMULA TION	INT8	ZTA03404:Fail ed VGCS Assignments per BSC (Equipment Failure)	B1275072055.C12 78707420	Sum	hubsvbh, hubtvbh
FAIL_VGCS_A SG_INVALID_ MSG	ACCUMULA TION	INT8	ZTA03407:Fail ed VGCS Assignments per BSC (Invalid Message)	B1275072055.C12 78707423	Sum	hubsvbh, hubtvbh
FAIL_VGCS_A SG_OR_CAUS ES	ACCUMULA TION	INT8	ZTA03409:Fail ed VGCS Assignments per BSC (Other Causes)	B1275072055.C12 78707425	Sum	hubsvbh, hubtvbh
FAIL_VGCS_A SG_RQ_TRES_ UNAVL	ACCUMULA TION	INT8	ZTA03405:Fail ed VGCS Assignments per BSC (Requested Terrestrial Resource Unavailable)	B1275072055.C12 78707421	Sum	hubsvbh, hubtvbh
FAIL_VGCS_A SG_TRES_ALL OC	ACCUMULA TION	INT8	ZTA03406:Fail ed VGCS Assignments per BSC (Terrestrial Resource Already Allocated)	B1275072055.C12 78707422	Sum	hubsvbh, hubtvbh
FAIL_VGCS_A SG	ACCUMULA TION	INT8	ZTA03403:Fail ed VGCS	B1275072055.C12 78707419	Sum	hubsvbh, hubtvbh

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			Assignments per BSC			
FAIL_VGCS_UL_SZ_BSC_REJECTED	ACCUMULATION	INT8	ZTA03433:Failed VGCS Uplink Seizures (BSC Rejected) per BSC	B1275072055.C12 78707449	Sum	hubsvbh, hubtvbh
FAIL_VGCS_UL_SZ_MS_REL	ACCUMULATION	INT8	ZTA03437:Failed VGCS Uplink Seizures (MS Release) per BSC	B1275072055.C12 78707453	Sum	hubsvbh, hubtvbh
FAIL_VGCS_UL_SZ_MSC_REJECTED	ACCUMULATION	INT8	ZTA03434:Failed VGCS Uplink Seizures (MSC Rejected) per BSC	B1275072055.C12 78707450	Sum	hubsvbh, hubtvbh
FAIL_VGCS_UL_SZ_UESTB_IND_TO	ACCUMULATION	INT8	ZTA03436:Failed VGCS Uplink Seizures (Uplink Establish Indication Timeout) per BSC	B1275072055.C12 78707452	Sum	hubsvbh, hubtvbh
FAIL_VGCS_UL_SZ_UL_RQ_ACK_TO	ACCUMULATION	INT8	ZTA03435:Failed VGCS Uplink Seizures (Uplink Request Acknowledge Timeout) per BSC	B1275072055.C12 78707451	Sum	hubsvbh, hubtvbh
ICINT_INTERC_VGCS_TCH_HO	ACCUMULATION	INT8	ZTA03442:Incoming Internal Inter-Cell VGCS TCH Handovers per BSC	B1275072055.C12 78707458	Sum	hubsvbh, hubtvbh
ICINTERB_INTERC_VGCS_	ACCUMULATION	INT8	ZTA03448:Incoming Inter-BSC	B1275072055.C12 78707464	Sum	hubsvbh, hubtvbh

TCH_HO_CMD			Inter-Cell VGCS TCH Handover Commands per BSC			
INTERB_INTERC_VGCS_TCH_HO	ACCUMULATION	INT8	ZTA03451:Inter-BSC Inter-Cell VGCS TCH Handovers per BSC	B1275072055.C12 78707467	Sum	hubsvbh, hubtvbh
OGINT_INTERC_VGCS_TCH_HO	ACCUMULATION	INT8	ZTA03445:Outgoing Internal Inter-Cell VGCS TCH Handovers per BSC	B1275072055.C12 78707461	Sum	hubsvbh, hubtvbh
QUEUING_RQ_IN_VBS_ASG	ACCUMULATION	INT8	ZTA03427:Queuing Requests in VBS Assignment Procedure per BSC	B1275072055.C12 78707443	Sum	hubsvbh, hubtvbh
QUEUING_RQ_IN_VGCS_ASG	ACCUMULATION	INT8	ZTA03412:Queuing Requests in VGCS Assignment Procedure per BSC	B1275072055.C12 78707428	Sum	hubsvbh, hubtvbh
SUCC_ICINT_INTRAC_VGCS_TCH_HO	ACCUMULATION	INT8	ZTA03441:Successful Incoming Internal Intra-Cell VGCS TCH Handovers per BSC	B1275072055.C12 78707457	Sum	hubsvbh, hubtvbh
SUCC_ICINTE	ACCUMULATION	INT8	ZTA03447:Suc	B1275072055.C12	Sum	hubsvbh,

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RB_INTERC_VGCS_TCH_HO	TION		Successful Incoming Inter-BSC Inter-Cell VGCS TCH Handovers per BSC	78707463		hubtvbh
SUCCESSFUL_INCOMING_INTER_BSC_INTER_CELL_VGCS_TCH_HANDOVER_RATE	INTENSITY	FLOAT	ZTA03497:Successful Incoming Inter-BSC VGCS TCH Handover Rate per BSC	B1275072055.C1278707513	Average	hubsvbh, hubtvbh, Sum, Minimum, Maximum
SUCCESSFUL_INCOMING_INTER_BSC_INTER_CELL_VGCS_TCH_RADIO_HANDOVER_RATE	INTENSITY	FLOAT	ZTA03500:Successful Incoming Inter-BSC VGCS TCH Radio Handover Rate per BSC	B1275072055.C1278707516	Average	hubsvbh, hubtvbh, Sum, Minimum, Maximum
SUCCESSFUL_INTRA_BSC_INTER_CELL_VGCS_TCH_HANDOVER_RATE	INTENSITY	FLOAT	ZTA03496:Successful Intra-BSC Inter-Cell VGCS TCH Handover Rate per BSC	B1275072055.C1278707512	Average	hubsvbh, hubtvbh, Sum, Minimum, Maximum
SUCCESSFUL_INTRA_BSC_INTER_CELL_VGCS_TCH_RADIO_HANDOVER_RATE	INTENSITY	FLOAT	ZTA03499:Successful Intra-BSC VGCS TCH Radio Handover Rate per BSC	B1275072055.C1278707515	Average	hubsvbh, hubtvbh, Sum, Minimum, Maximum
SUCCESSFUL_INTRA_CELL_VGCS_TCH_TO_DEDICATED_TCH_HANDOVER_RATE	INTENSITY	FLOAT	ZTA03495:Successful Intra-Cell VGCS TCH to Dedicated TCH Handover Rate per BSC	B1275072055.C1278707511	Average	hubsvbh, hubtvbh, Sum, Minimum, Maximum
SUCCESSFUL_INTRA_CELL_VGCS_TCH_HANDOVER_RATE	ACCUMULATION	INT8	ZTA03439:Successful Intra-Cell VGCS TCH Handover Rate per BSC	B1275072055.C1278707511	Sum	hubsvbh, hubtvbh, Sum, Minimum, Maximum

C_VGCS_TCH_DTCH_HO	TION		Successful Intra-Cell VGCS TCH to Dedicated TCH Handovers per BSC	78707455		hubtvbh
SUCC_OGINT_INTRAC_VGS_TCH_HO	ACCUMULATION	INT8	ZTA03444:Successful Outgoing Internal Intra-Cell VGCS TCH Handovers per BSC	B1275072055.C1278707460	Sum	hubsvbh, hubtvbh
SUCC_OGINT_ERB_INTERC_VGCS_TCH_HO	ACCUMULATION	INT8	ZTA03450:Successful Outgoing Inter-BSC Inter-Cell VGCS TCH Handovers per BSC	B1275072055.C1278707466	Sum	hubsvbh, hubtvbh
SUCC_OGINT_ERB_VGCS_TCH_HO_RATE	INTENSITY	FLOAT	ZTA03498:Successful Outgoing Inter-BSC VGCS TCH Handover Rate per BSC	B1275072055.C1278707514	Average	hubsvbh, hubtvbh, Sum, Minimum, Maximum
SUCC_OGINT_ERB_VGCS_TCH_R_HO_RATE	INTENSITY	FLOAT	ZTA03501:Successful Outgoing Inter-BSC VGCS TCH Radio Handover Rate per BSC	B1275072055.C1278707517	Average	hubsvbh, hubtvbh, Sum, Minimum, Maximum
SUCC_PREEMPT_IN_VBS_ASG	ACCUMULATION	INT8	ZTA03430:Successful Preemptions in	B1275072055.C1278707446	Sum	hubsvbh, hubtvbh

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			VBS Assignment Procedure per BSC			
SUCC_PREEMPT_IN_VGCS_ASG	ACCUMULATION	INT8	ZTA03415:Successful Preemptions in VGCS Assignment Procedure per BSC	B1275072055.C1278707431	Sum	hubsvbh, hubtvbh
SUCC_Q_IN_VBS_ASG	ACCUMULATION	INT8	ZTA03428:Successful Queuings in VBS Assignment Procedure per BSC	B1275072055.C1278707444	Sum	hubsvbh, hubtvbh
SUCC_Q_IN_VGCS_ASG	ACCUMULATION	INT8	ZTA03413:Successful Queuings in VGCS Assignment Procedure per BSC	B1275072055.C1278707429	Sum	hubsvbh, hubtvbh
SUCC_VBS_ASG_PREEMPT_RATE	INTENSITY	FLOAT	ZTA03483:Successful VBS Assignment Preemption Rate per BSC	B1275072055.C1278707499	Average	hubsvbh, hubtvbh, Sum, Minimum, Maximum
SUCC_VBS_ASG_QUEUING_RATE	INTENSITY	FLOAT	ZTA03482:Successful VBS Assignment Queuing Rate per BSC	B1275072055.C1278707498	Average	hubsvbh, hubtvbh, Sum, Minimum, Maximum
SUCC_VBS_ASG_RATE	INTENSITY	FLOAT	ZTA03481:Successful VBS Assignment	B1275072055.C1278707497	Average	hubsvbh, hubtvbh, Sum,

			Rate per BSC			Minimum, Maximum
SUCC_VBS_ASG	ACCUMULATION	INT8	ZTA03417:Successful VBS Assignments per BSC	B1275072055.C1278707433	Sum	hubsvbh, hubtvbh
SUCC_VGCS_ASG_PREEMPT_RATE	INTENSITY	FLOAT	ZTA03480:Successful VGCS Assignment Preemption Rate per BSC	B1275072055.C1278707496	Average	hubsvbh, hubtvbh, Sum, Minimum, Maximum
SUCC_VGCS_ASG_QUEUEING_RATE	INTENSITY	FLOAT	ZTA03479:Successful VGCS Assignment Queuing Rate per BSC	B1275072055.C1278707495	Average	hubsvbh, hubtvbh, Sum, Minimum, Maximum
SUCC_VGCS_ASG_RATE	INTENSITY	FLOAT	ZTA03478:Successful VGCS Assignment Rate per BSC	B1275072055.C1278707494	Average	hubsvbh, hubtvbh, Sum, Minimum, Maximum
SUCC_VGCS_ASG	ACCUMULATION	INT8	ZTA03402:Successful VGCS Assignments per BSC	B1275072055.C1278707418	Sum	hubsvbh, hubtvbh
SUCC_VGCS_TCH_HO_BETTER_CELL	ACCUMULATION	INT8	ZTA03472:Successful VGCS TCH Handovers for Better Cell per	B1275072055.C1278707488	Sum	hubsvbh, hubtvbh

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			BSC			
SUCC_VGCS_TCH_HO_DL_QUALITY	ACCUMULATION	INT8	ZTA03468:Successful VGCS TCH Handovers for Downlink Quality per BSC	B1275072055.C1278707484	Sum	hubsvbh, hubtvbh
SUCC_VGCS_TCH_HO_DL_STRENGTH	ACCUMULATION	INT8	ZTA03470:Successful VGCS TCH Handovers for Downlink Strength per BSC	B1275072055.C1278707486	Sum	hubsvbh, hubtvbh
SUCC_VGCS_TCH_HO_F_S_HFT	ACCUMULATION	INT8	ZTA03465:Successful VGCS TCH Handovers for Frequency Shift per BSC	B1275072055.C1278707481	Sum	hubsvbh, hubtvbh
SUCC_VGCS_TCH_HO_OM_ITVN	ACCUMULATION	INT8	ZTA03476:Successful VGCS TCH Handovers for OM Intervention per BSC	B1275072055.C1278707492	Sum	hubsvbh, hubtvbh
SUCC_VGCS_TCH_HO_OTHERS	ACCUMULATION	INT8	ZTA03477:Successful VGCS TCH Handovers for Other Causes per BSC	B1275072055.C1278707493	Sum	hubsvbh, hubtvbh
SUCC_VGCS_TCH_HO_QUICK_PBGTT	ACCUMULATION	INT8	ZTA03466:Successful VGCS TCH Handovers for Quick PBGT per BSC	B1275072055.C1278707482	Sum	hubsvbh, hubtvbh
SUCC_VGCS_	ACCUMULATION	INT8	ZTA03474:Suc	B1275072055.C12	Sum	hubsvbh,

TCH_HO_RAPID_RX_DRP	TION		Successful VGCS TCH Handovers for Rapid Rxlevel Drop per BSC	78707490		hubtvbh
SUCC_VGCS_TCH_HO_RESPONSE_MSC_ITVN	ACCUMULATION	INT8	ZTA03475: Successful VGCS TCH Handovers for Response to MSC Intervention per BSC	B1275072055.C12 78707491	Sum	hubsvbh, hubtvbh
SUCC_VGCS_TCH_HO_TIMING_ADV	ACCUMULATION	INT8	ZTA03471: Successful VGCS TCH Handovers for Timing Advance per BSC	B1275072055.C12 78707487	Sum	hubsvbh, hubtvbh
SUCC_VGCS_TCH_HO_TRAFF_LOAD	ACCUMULATION	INT8	ZTA03473: Successful VGCS TCH Handovers for Traffic Load per BSC	B1275072055.C12 78707489	Sum	hubsvbh, hubtvbh
SUCC_VGCS_TCH_HO_UL_QUALITY	ACCUMULATION	INT8	ZTA03467: Successful VGCS TCH Handovers for Uplink Quality per BSC	B1275072055.C12 78707483	Sum	hubsvbh, hubtvbh
SUCC_VGCS_TCH_HO_UL_STRENGTH	ACCUMULATION	INT8	ZTA03469: Successful VGCS TCH Handovers for Uplink Strength per BSC	B1275072055.C12 78707485	Sum	hubsvbh, hubtvbh

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SUCC_VGCS_UL_SZ	ACCUMULATION	INT8	ZTA03432:Successful VGCS Uplink Seizures per BSC	B1275072055.C1278707448	Sum	hubsvbh, hubtvbh
TOT_FAIL_VGCS_UL_SZ	ACCUMULATION	INT8	Total Failed VGCS Uplink Seizures per BSC	B1275072055.C1278707449 + C1278707450 + C1278707451 + C1278707452 + C1278707453	Sum	hubsvbh, hubtvbh
TRAF_VOL_OF_VBS_DL_TCH	ACCUMULATION	FLOAT	ZTA03492:Traf fic Volume of VBS Downlink TCH per BSC	B1275072055.C1278707508	Sum	hubsvbh, hubtvbh
TRAF_VOL_OF_VBS_UL_TCHS	ACCUMULATION	FLOAT	ZTA03491:Traf fic Volume of VBS Uplink TCHs per BSC	B1275072055.C1278707507	Sum	hubsvbh, hubtvbh
TRAF_VOL_OF_VGCS_DL_TCH	ACCUMULATION	FLOAT	ZTA03490:Traf fic Volume of VGCS Downlink TCH per BSC	B1275072055.C1278707506	Sum	hubsvbh, hubtvbh
TRAF_VOL_OF_VGCS_UL_TCH	ACCUMULATION	FLOAT	ZTA03489:Traf fic Volume of VGCS Uplink TCH per BSC	B1275072055.C1278707505	Sum	hubsvbh, hubtvbh
VBS_ASG_RQ	ACCUMULATION	INT8	ZTA03416:VB S Assignment Requests per BSC	B1275072055.C1278707432	Sum	hubsvbh, hubtvbh
VBS_TCH_UL_CALL_DROPS	ACCUMULATION	INT8	ZTA03494:VB S TCH Uplink Call Drops per BSC	B1275072055.C1278707510	Sum	hubsvbh, hubtvbh
VGCS_ASG_RQ	ACCUMULATION	INT8	ZTA03401:VG CS Assignment Requests per BSC	B1275072055.C1278707417	Sum	hubsvbh, hubtvbh
VGCS_TCH_U	INTENSITY	FLOAT	ZTA03502:VG	B1275072055.C12	Average	hubsvbh,

L_CALL_DROP_RATE		T	CS TCH Uplink Call Drop Rate per BSC	78707518		hubtvbh, Sum, Minimum, Maximum
VGCS_TCH_UL_CALL_DROPS	ACCUMULATION	INT8	ZTA03493:VG CS TCH Uplink Call Drops per BSC	B1275072055.C1278707509	Sum	hubsvbh, hubtvbh
VGCS_TCH_UL_MEAS	ACCUMULATION	INT8	ZTA03484:VG CS TCH Uplink Measurements per BSC	B1275072055.C1278707500	Sum	hubsvbh, hubtvbh
VGCS_UL_SEIZE_RQ	ACCUMULATION	INT8	ZTA03431:VG CS Uplink Seize requests per BSC	B1275072055.C1278707447	Sum	hubsvbh, hubtvbh

## 7.6 BSC\_DSP Performance Indicators

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

- [BSC\\_DSP.Huawei.GSM.DSP\\_CPU](#)
- [BSC\\_DSP.Huawei.GSM.DSP\\_PDCH](#)

### 7.6.1 BSC\_DSP.Huawei.GSM.DSP\_CPU

processor usage of the DSPs

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
DSP_CPU_AVERAGE_USAGE	INTENSITY	FLOAT	AR9403:Average DSP CPU Usage (%)	B1275073117.C1279769419	Average	Average, Maximum, Minimum, Sum

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DSP_CPU_PEA K_USAGE	INTENSITY	INT8	R9404:Maximum DSP CPU Usage (%)	B1275073117.C12 79769420	Constant	Average, Maximum, Minimum, Sum
DSP_CPU_SAMP LE_TIMES	ACCUMULATION	INTEGER	R9402:Sampling Times of DSP CPU Usage	B1275073117.C12 79769418	Sum	
DSP_CPU_TOT AL_SAMPLE _USAGE	INTENSITY	INTEGER	R9401:Total Sampled DSP CPU Usage	B1275073117.C12 79769417	Average	Average, Maximum, Minimum, Sum

## 7.6.2 BSC\_DSP.Huawei.GSM.DSP\_PDCH

PDCHs activated and occupied

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
DSP_PDCH_A VG_ACT_PD CH_NUM	INTENSITY	FLOAT	AR9505:Average Number of PDCHs Activated on DSP	B1275073118.C12 79770421	Average	Average, Maximum, Minimum, Sum
DSP_PDCH_A VG_OCCU_P DCH_NUM	INTENSITY	FLOAT	AR9509:Average Number of PDCHs Occupied on DSP	B1275073118.C12 79770425	Average	Average, Maximum, Minimum, Sum
DSP_PDCH_ MAX_ACT_P DCH_NUM	INTENSITY	INT8	R9501:Maximum Number of PDCHs Activated on DSP	B1275073118.C12 79770417	Constant	Average, Maximum, Minimum, Sum
DSP_PDCH_ MAX_OCCU_ PDCH_NUM	INTENSITY	INT8	R9506:Maximum Number of PDCHs Occupied on DSP	B1275073118.C12 79770422	Constant	Average, Maximum, Minimum, Sum

DSP_PDCH_MIN_ACT_PDCH_NUM	INTENSITY	INT8	R9502:Minimum Number of PDCHs Activated on DSP	B1275073118.C1279770418	Minimum	Average, Maximum, Minimum, Sum
DSP_PDCH_MIN_OCCUPDCH_NUM	INTENSITY	INT8	R9507:Minimum Number of PDCHs Occupied on DSP	B1275073118.C1279770423	Minimum	Average, Maximum, Minimum, Sum
DSP_PDCH_TOTAL_ACT_PDCH_NUM	ACCUMULATION	INTEGER	R9503:Total Number of Sampled PDCHs Activated on DSP	B1275073118.C1279770419	Sum	
DSP_PDCH_TOTAL_OCCUPDCH_NUM	ACCUMULATION	INTEGER	R9508:Total Number of Sampled PDCHs Occupied on DSP	B1275073118.C1279770424	Sum	
DSP_SAMPLE_PDCH	ACCUMULATION	INTEGER	R9504:Sampling Times of PDCH Measurement on DSP	B1275073118.C1279770420	Sum	

## 7.7 BSC\_Trunk\_Group Performance Indicators

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

- [BSC\\_Trunk\\_Group.Huawei.GSM.Trunk\\_Group\\_Perf](#)

### 7.7.1 BSC\_Trunk\_Group.Huawei.GSM.Trunk\_Group\_Perf

Measurement of Trunk Group Performance

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<b>KPI</b>	<b>Type</b>	<b>Data Type</b>	<b>Description</b>	<b>Derivation</b>	<b>Default Aggregator</b>	<b>Other Aggregators</b>
Average_Receive_Rate	INTENSITY	FLOAT	T7865:Average Receive Rate of the Trunk Group	B82863915.C73439883	Average	Sum, Minimum, Maximum
Average_Transmitted_Rate	INTENSITY	FLOAT	T7870:Average Transmitted Rate of the Trunk Group	B82863915.C73439886	Average	Sum, Minimum, Maximum
BER_of_the_Data_Received	ACCUMULATION	INT8	T7871:BER of the Data Received on the Trunk Group	B82863915.C73439887	Sum	
BER_of_the_Data_Transmitted	ACCUMULATION	INT8	T7872:BER of the Data Transmitted on the Trunk Group	B82863915.C73439888	Sum	
Broadcast_Frames_Received	ACCUMULATION	INT8	T7880:Number of Broadcast Frames Received on the Trunk Group	B82863915.C73439891	Sum	
Broadcast_Frames_Transmitted	ACCUMULATION	INT8	T7890:Number of Broadcast Frames Transmitted on the Trunk Group	B82863915.C73439896	Sum	
Bytes_of_Error_Frames_Received	ACCUMULATION	INT8	T7843:Bytes of Error Frames Received on the Trunk Group	B82863915.C73439874	Sum	
Bytes_of_Error_Frames_Transmitted	ACCUMULATION	INT8	T7854:Bytes of Error Frames Transmitted on the Trunk	B82863915.C73439876	Sum	

			Group			
Bytes_Received	ACCUMULATION	INT8	T7840: Number of Bytes Received on the Trunk Group	B82863915.C73439873	Sum	
Bytes_Transmitted	ACCUMULATION	INT8	T7851: Number of Bytes Transmitted on the Trunk Group	B82863915.C73439875	Sum	
CRC_Error_Frames_with_Legal_Length_Received	ACCUMULATION	INT8	T7882: Number of CRC Error Frames with Legal Length Received on the Trunk Group	B82863915.C73439892	Sum	
Frames_Received	ACCUMULATION	INT8	T7894: Number of Frames Received on the Trunk Group	B82863915.C73439898	Sum	
Frames_Transmitted	ACCUMULATION	INT8	T7896: Number of Frames Transmitted on the Trunk Group	B82863915.C73439899	Sum	
Frames_with_VLAN_Flags_Received	ACCUMULATION	INT8	T7884: Number of Frames with VLAN Flags Received on the Trunk Group	B82863915.C73439893	Sum	
Frames_with_VLAN_Flags_Transmitted	ACCUMULATION	INT8	T7892: Number of Frames with VLAN Flags Transmitted on the Trunk Group	B82863915.C73439897	Sum	

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Maximum_Receive_Rate	INTENSITY	FLOAT	T7863:Maximum Receive Rate of the Trunk Group	B82863915.C73439881	Average	Sum, Minimum, Maximum
Maximum_Transmitted_Rate	INTENSITY	FLOAT	T7868:Maximum Transmitted Rate of the Trunk Group	B82863915.C73439884	Average	Sum, Minimum, Maximum
Minimum_Receive_Rate	INTENSITY	FLOAT	T7864:Minimum Receive Rate of the Trunk Group	B82863915.C73439882	Average	Sum, Minimum, Maximum
Minimum_Transmitted_Rate	INTENSITY	FLOAT	T7869:Minimum Transmitted Rate of the Trunk Group	B82863915.C73439885	Average	Sum, Minimum, Maximum
Multicast_Frames_Received	ACCUMULATION	INT8	T7878:Number of Multicast Frames Received on the Trunk Group	B82863915.C73439890	Sum	
Multicast_Frames_Transmitted	ACCUMULATION	INT8	T7888:Number of Multicast Frames Transmitted on the Trunk Group	B82863915.C73439895	Sum	
Unicast_Frames_Received	ACCUMULATION	INT8	T7876:Number of Unicast Frames Received on the Trunk Group	B82863915.C73439889	Sum	
Unicast_Frames_Transmitted	ACCUMULATION	INT8	T7886:Number of Unicast Frames Transmitted on the Trunk	B82863915.C73439894	Sum	

			Group		
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## 7.8 CBSCIPPM Performance Indicators

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

- [CBSCIPPM.Huawei.GSM.BSC\\_IPPM\\_link\\_capability](#)

### 7.8.1 CBSCIPPM.Huawei.GSM.BSC\_IPPM\_link\_capability

IPPM Link Capability Measurement.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
AVG_IPPM_FWD_PKT_LOSS_RATE	INTENSITY	FLOAT	L01033:Average IPPM Forward Packet Loss Rate .Obsolete in V900R011.	B1275073417.C1280069425	Average	Sum, Minimum, Maximum
AVG_RTT_DELAY_OF_AN_IPPM_LNK	INTENSITY	FLOAT	L01035:Average RTT Delay of an IPPM Link .Obsolete in V900R011.	B1275073417.C1280069427	Average	Sum, Minimum, Maximum
AVG_THRPUT_BITS_TX_IPPM_LNK	INTENSITY	FLOAT	L01036:Average Throughput of Bits Sent over an IPPM Link .Obsolete in V900R011.	B1275073417.C1280069428	Average	Sum, Minimum, Maximum
AVG_THRPUT_OF_PKT_TX_IPPM_LNK	INTENSITY	FLOAT	L01037:Average Throughput of Packets Sent over an IPPM Link .Obsolete in V900R011.	B1275073417.C1280069429	Average	Sum, Minimum, Maximum

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BYTE_RX_IPPM_PEER_END	ACCUMULATION	INT8	L01027: Number of Bytes Received at the IPPM Peer End .Obsolete in V900R011.	B1275073417.C1280069419	Sum	
BYTE_TX_IPPM_LNK	ACCUMULATION	INT8	L01025: Number of Bytes Sent over an IPPM Link .Obsolete in V900R011.	B1275073417.C1280069417	Sum	
MAX_IPPM_FWD_PKT_LOSS_RATE	INTENSITY	INT8	L01034: Maximum IPPM Forward Packet Loss Rate .Obsolete in V900R011.	B1275073417.C1280069426	Average	Sum, Minimum, Maximum
MAX_RTT_DELAY_IPPM_LNK	INTENSITY	INT8	L01032: Maximum RTT Delay of an IPPM Link .Obsolete in V900R011.	B1275073417.C1280069424	Average	Sum, Minimum, Maximum
MEAN_SQ_IPPM_FWD_JITTERS	INTENSITY	FLOAT	L01029: Mean Square Value of IPPM Forward Jitters .Obsolete in V900R011.	B1275073417.C1280069421	Average	Sum, Minimum, Maximum
PKT_RX_IPPM_PEER_END	ACCUMULATION	INT8	L01028: Number of Packets Received at the IPPM Peer End .Obsolete in V900R011.	B1275073417.C1280069420	Sum	
PKT_TX_IPPM_LNK	ACCUMULATION	INT8	L01026: Number of Packets Sent over an IPPM Link .Obsolete in V900R011.	B1275073417.C1280069418	Sum	
RTT_DELAY_IPPM_LNK	ACCUMULATION	INT8	L01030: RTT Delay of an	B1275073417.C1280069422	Sum	

			IPPM Link .Obsolete in V900R011.			
RTT_DELAYS _IPPM_LNK	ACCUMULA TION	INT8	L01031:Numbe r of RTT Delays of an IPPM Link .Obsolete in V900R011.	B1275073417.C128 0069423	Sum	

## 7.9 Cell Performance Indicators

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

- [Cell.Huawei.GSM.Abis\\_Congestion](#)
- [Cell.Huawei.GSM.Abis\\_interface\\_paging](#)
- [Cell.Huawei.GSM.Abis\\_resource\\_capability](#)
- [Cell.Huawei.GSM.AMR\\_calls](#)
- [Cell.Huawei.GSM.Assignment\\_failures](#)
- [Cell.Huawei.GSM.Assignment\\_mode\\_modify](#)
- [Cell.Huawei.GSM.Assignment\\_overview](#)
- [Cell.Huawei.GSM.Assignment\\_req\\_cmd\\_complete](#)
- [Cell.Huawei.GSM.BSSGP\\_capability](#)
- [Cell.Huawei.GSM.Call\\_drop\\_after\\_answer](#)
- [Cell.Huawei.GSM.Call\\_drop\\_clr\\_req\\_on\\_A\\_iface](#)
- [Cell.Huawei.GSM.Call\\_drop\\_due\\_rel\\_ind\\_ULay\\_olay](#)
- [Cell.Huawei.GSM.Call\\_drop\\_due\\_to\\_Abis\\_fail](#)
- [Cell.Huawei.GSM.Call\\_drop\\_due\\_to\\_conn\\_fail](#)
- [Cell.Huawei.GSM.Call\\_drop\\_due\\_to equip\\_fail](#)
- [Cell.Huawei.GSM.Call\\_drop\\_due\\_to\\_err\\_ind](#)
- [Cell.Huawei.GSM.Call\\_drop\\_due\\_to\\_forced\\_ho](#)
- [Cell.Huawei.GSM.Call\\_drop\\_due\\_to\\_no\\_MRs](#)
- [Cell.Huawei.GSM.Call\\_drop\\_due\\_to\\_rel\\_ind](#)
- [Cell.Huawei.GSM.Call\\_drop\\_due\\_to\\_res\\_check](#)
- [Cell.Huawei.GSM.Call\\_drop\\_dueto\\_connfail\\_ULay\\_olay](#)
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- [Cell.Huawei.GSM.Call\\_drop\\_overview](#)
- [Cell.Huawei.GSM.Call\\_Duration\\_per\\_Cell](#)
- [Cell.Huawei.GSM.Cell\\_broadcast\\_queue](#)
- [Cell.Huawei.GSM.Cell\\_paging\\_capability](#)

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- [Cell.Huawei.GSM.Cell\\_state](#)
- [Cell.Huawei.GSM.Cell\\_user\\_capability](#)
- [Cell.Huawei.GSM.Channel\\_activation\\_overview](#)
- [Cell.Huawei.GSM.Channel\\_activation\\_SDCCH](#)
- [Cell.Huawei.GSM.Channel\\_activation\\_TCHF](#)
- [Cell.Huawei.GSM.Channel\\_activation\\_TCHH](#)
- [Cell.Huawei.GSM.Channel\\_assignment\\_conc\\_cell](#)
- [Cell.Huawei.GSM.Channel\\_assignment\\_failures](#)
- [Cell.Huawei.GSM.Channel\\_assignment\\_GPRS](#)
- [Cell.Huawei.GSM.Channel\\_assignment\\_queue](#)
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- [Cell.Huawei.GSM.DL\\_GPRS\\_RLC\\_data\\_transfer\\_cap](#)
- [Cell.Huawei.GSM.DL\\_GPRS\\_TBF\\_estab\\_and\\_RLS\\_cap](#)
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- [Cell.Huawei.GSM.Frame\\_rate\\_in\\_ext](#)
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- [Cell.Huawei.GSM.Immediate\\_assignment\\_SDCCH](#)
- [Cell.Huawei.GSM.Immediate\\_assignment\\_TCHF](#)
- [Cell.Huawei.GSM.Immediate\\_assignment\\_TCHH](#)
- [Cell.Huawei.GSM.Incom\\_ext\\_intercell\\_handover](#)
- [Cell.Huawei.GSM.Incom\\_ext\\_intercell\\_HO\\_overview](#)
- [Cell.Huawei.GSM.Incom\\_int\\_intercell\\_HO\\_failures](#)
- [Cell.Huawei.GSM.Incom\\_int\\_intercell\\_HO\\_overview](#)
- [Cell.Huawei.GSM.Incom\\_int\\_intercell\\_HO\\_req\\_resp](#)
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### 7.9.1 Cell.Huawei.GSM.Abis\_Congestion

Measurement of the ABIS resource congestion.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
AMRC_IP_HDLC_TRANS	ACCUMULATION	INTEGER	C3416B: Number of AMRC in a Cell When Abis Resource Congestion (IP/HDLC Transmission) . Obsolete in V900R011.	B1275071832.C1278484418	Sum	

CHNL_ALLO C_FAIL_IP_H DLC_TRANS	ACCUMULA TION	INTEG ER	C3416F:Numbe r of Channel Alloc Failure in a Cell When Abis Resource Congestion (IP/ HDLC Transmission) . Obsolete in V900R011.	B1275071832.C12 78484422	Sum	
HF_TO_HH_H O_IP_HDLC_ TRANS	ACCUMULA TION	INTEG ER	C3416C:Numb er of TCHF to TCHH Ho. in a Cell When Abis Resource Congestion (IP/ HDLC Transmission) . Obsolete in V900R011.	B1275071832.C12 78484419	Sum	
PREEMPT_IP_ HDLC_TRAN S	ACCUMULA TION	INTEG ER	C3416E:Numbe r of Preemption in a Cell When Abis Resource Congestion (IP/ HDLC Transmission) . Obsolete in V900R011.	B1275071832.C12 78484421	Sum	
PREFER_TCH H_IP_HDLC_ TRANS	ACCUMULA TION	INTEG ER	C3416A:Numb er of Preferable Selections of TCHH in a Cell When Abis Resource Congestion (IP/ HDLC Transmission) . Obsolete in V900R011.	B1275071832.C12 78484417	Sum	

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Q_IP_HDLC_TRANS	ACCUMULATION	INTEGER	C3416D: Number of Queueing in a Cell When Abis Resource Congestion (IP/HDLC Transmission) . Obsolete in V900R011.	B1275071832.C1278484420	Sum	
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## 7.9.2 Cell.Huawei.GSM.Abis\_interface\_paging

Paging on Abis interface

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
AVG_TA_RACH_FAIL_TO_HIGH	INTENSITY	FLOAT	A349D: Average TA In RACH Failure (Too High TA) . Obsolete in V900R011.	B1275071218.C1277870440	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
AVG_UNOLVE_LEV	INTENSITY	INT8	A333: Average Undecodable Level in the Code Streams on the RACH	B1275071218.C1277870420	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CIRCUIT_PCH_DEL	ACCUMULATION	INT8	A337: Number of Deletions of the Paging for CS Services on the PCH	B1275071218.C1277870424	Sum	hucsvbh, huctvbh
CIRCUIT_PCH_EXP	ACCUMULATION	INT8	A338: Number of Expiries of the Paging for CS Services on the PCH	B1275071218.C1277870425	Sum	hucsvbh, huctvbh
CIRCUIT_PC	ACCUMULATION	INTEGER	A341: Number	B1275071218.C12	Sum	hucsvbh,

H_MSG_NUM	TION	ER	of Paging Messages for CS Services on the PCH	77870428		huctvbh
DISC_CS_PAGING	ACCUMULATION	INTEGER	A349:Discarded CS Pagings	B1275071218.C12 77870435	Sum	hucsvbh, huctvbh
DISC_PS_PAGING	ACCUMULATION	INTEGER	A350:Discarded PS Pagings	B1275071218.C12 77870436	Sum	hucsvbh, huctvbh
DISC_RE_PAGING_MSG_CS_SVC	ACCUMULATION	INT8	A351:Number of Discarded Re-paging Messages for CS Services	B1275071218.C12 82411733	Sum	hucsvbh, huctvbh
MAX_TA_RACH_FAIL_TOO_HIGH	INTENSITY	INTEGER	A349B:Maximum TA In RACH Failure ((Too High TA)) .Obsolete in V900R011.	B1275071218.C12 77870438	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
MAX_UNOLVE_LEV	INTENSITY	INT8	A332:Maximum Undecodable Level in the Code Streams on the RACH	B1275071218.C12 77870419	Constant	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
MIN_SOLVE_LEV	INTENSITY	INT8	A335:Minimum decodable Level in the Code Streams on the RACH	B1275071218.C12 77870422	Minimum	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
PACUIT_PCH_DEL	ACCUMULATION	INT8	A339:Number of Deletions of the Paging for	B1275071218.C12 77870426	Sum	hucsvbh, huctvbh

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			PS Services on the PCH			
PACUIT_PCH_EXP	ACCUMULATION	INT8	A340: Number of Expiries of the Paging for PS Services on the PCH	B1275071218.C1277870427	Sum	hucsvbh, huctvbh
PACUIT_PCH_MSG_NUM	ACCUMULATION	INTEGER	A342: Number of Paging Messages for PS Services on the PCH	B1275071218.C1277870429	Sum	hucsvbh, huctvbh
PAGES_CS	ACCUMULATION	INT8	A330: Delivered Paging Messages for CS Service	B1275071218.C1277870417	Sum	hucsvbh, huctvbh
PAGES_PS	ACCUMULATION	INT8	A331: Delivered Paging Messages for PS Service	B1275071218.C1277870418	Sum	hucsvbh, huctvbh
PAGING_MSG_NUM	ACCUMULATION	INTEGER	A348: Number of Paging Messages Sent on the UM Interface .Obsolete in V900R011.	B1275071218.C1277870434	Sum	hucsvbh, huctvbh
PCH_MSG_NUM_AFTER_Sec_CYCLE	ACCUMULATION	INTEGER	A347: Number of Paging Messages Sent on the PCH after the Second Scheduling Period	B1275071218.C1277870433	Sum	hucsvbh, huctvbh
PCH_MSG_NUM_First_CYCLE	ACCUMULATION	INTEGER	A344: Number of Paging Messages Sent on the PCH in the First Scheduling Period	B1275071218.C1277870431	Sum	hucsvbh, huctvbh

PCH_MSG_NUM_Sec_CYCLE	ACCUMULATION	INTEGER	A345: Number of Paging Messages Sent on the PCH in the Second Scheduling Period	B1275071218.C1277870432	Sum	hucsvbh, huctvbh
QUE_OCCUPY_PK_VALUE	INTENSITY	INTEGER	A343: Peak PCH Paging Queue Usage	B1275071218.C1277870430	Constant	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
RACH_FAIL_TOO_HIGH	ACCUMULATION	INT8	A349A: RACH Failures (Too High TA)	B1275071218.C1277870437	Sum	hucsvbh, huctvbh
SOLVES	ACCUMULATION	INT8	A336: Number of Successes in Decoding the Code Streams on the RACH	B1275071218.C1277870423	Sum	hucsvbh, huctvbh
TA_ACCURACH_FAIL_TOO_HIGH	ACCUMULATION	INT8	A349C: TA Accumulation In RACH Failure (Too High TA) .Obsolete in V900R011.	B1275071218.C1277870439	Sum	hucsvbh, huctvbh
TOT_PCH_TX_PAGING_MSG	ACCUMULATION	INTEGER	Total Number of paging messages sent on the PCH	B1275071218.C1277870431 + C1277870432 + C1277870433	Sum	hucsvbh, huctvbh
UNSOLVES	ACCUMULATION	INT8	A334: Number of Failures to Decode the Code Streams on the RACH	B1275071218.C1277870421	Sum	hucsvbh, huctvbh

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### 7.9.3 Cell.Huawei.GSM.Abis\_resource\_capability

Abis resource capability

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CIC_APPLY_ATMPT	ACCUMULATION	INT8	R9101: Number of Application Attempts of Abis Timeslot	B1275072534.C12 79186417	Sum	hucsvbh, huctvbh
CIC_APPLY_SUCC	ACCUMULATION	INT8	R9102: Number of Successful Application Attempts of Abis Timeslot	B1275072534.C12 79186418	Sum	hucsvbh, huctvbh
CIC_REL_ATMPT	ACCUMULATION	INT8	R9103: Number of Release Requests of Abis Timeslot	B1275072534.C12 79186419	Sum	hucsvbh, huctvbh
CIC_REL_SUCC	ACCUMULATION	INT8	R9104: Number of Successful Releases of Abis Timeslot	B1275072534.C12 79186420	Sum	hucsvbh, huctvbh
IP_PATH_BANDWIDTH_APPLY_ATMPT	ACCUMULATION	INT8	R9105: Number of Application Attempts of IP PATH or HDLC Bandwidth (16K)	B1275072534.C12 79186421	Sum	hucsvbh, huctvbh
IP_PATH_BANDWIDTH_APPLY_SUCC	ACCUMULATION	INT8	R9106: Number of Successful Application Attempts of IP PATH or HDLC Bandwidth (16K)	B1275072534.C12 79186422	Sum	hucsvbh, huctvbh
IP_PATH_BANDWIDTH_REL	ACCUMULATION	INT8	R9107: Number of Release	B1275072534.C12 79186423	Sum	hucsvbh, huctvbh

_REQ_16K			Requests of IP PATH or HDLC Bandwidth (16K)			
IP_PATH_BANDWIDTH_SUCCESS_REL_16K	ACCUMULATION	INT8	R9108: Number of Successful Releases of IP PATH or HDLC Bandwidth (16K)	B1275072534.C1279186424	Sum	hucsvbh, huctvbh
TOT_ABIS_TS_FAIL_ATT	ACCUMULATION	INTEGER	Total Number of Unsuccessful Application Attempts of Abis Timeslot. Obsolete in V900R011.	B1275072534.C1279186425 + C1279186426 + C1279186427 + C1279186428 + C1279186431	Sum	hucsvbh, huctvbh
UNSUCC_APP_ATT_BTS_DSP_LIMIT	ACCUMULATION	INTEGER	R9115: Number of Unsuccessful Application Attempts of Abis Timeslot for the limit of BTS DSP. Obsolete in V900R011.	B1275072534.C1279186431	Sum	hucsvbh, huctvbh
UNSUCC_APP_ATT_CN_FAIL	ACCUMULATION	INTEGER	R9110: Number of Unsuccessful Application Attempts of Abis Timeslot for Connecting Network Failure. Obsolete in V900R011.	B1275072534.C1279186426	Sum	hucsvbh, huctvbh

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UNSUCC_APP _ATT_NO_IDL E_TS	ACCUMULA TION	INTEG ER	R9109: Number of Unsuccessful Application Attempts of Abis Timeslot Because of no Idle Timeslot. Obsolete in V900R011.	B1275072534.C12 79186425	Sum	hucsvbh, huctvbh
UNSUCC_APP _ATT_OTH_C OMM_PC_FAI L	ACCUMULA TION	INTEG ER	R9114: Number of Unsuccessful Application Attempts of Abis Timeslot for Other Cause (Communicate with ABISPC Unsuccessfully) . Obsolete in V900R011.	B1275072534.C12 79186430	Sum	hucsvbh, huctvbh
UNSUCC_APP _ATT_OTH_D STR_LVDS_F AIL	ACCUMULA TION	INTEG ER	R9113: Number of Unsuccessful Application Attempts of Abis Timeslot for Other Cause (Distribute LVDS Unsuccessfully) . Obsolete in V900R011.	B1275072534.C12 79186429	Sum	hucsvbh, huctvbh
UNSUCC_APP _ATT_OTH	ACCUMULA TION	INTEG ER	R9112: Number of Unsuccessful Application Attempts of Abis Timeslot for Other Cause. Obsolete in V900R011.	B1275072534.C12 79186428	Sum	hucsvbh, huctvbh
UNSUCC_APP _ATT_TX_NE TCONFIG_FAI L	ACCUMULA TION	INTEG ER	R9111: Number of Unsuccessful Application Attempts of	B1275072534.C12 79186427	Sum	hucsvbh, huctvbh

			Abis Timeslot for Sending Network Configuration to BTS Failure. Obsolete in V900R011.			
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### 7.9.4 Cell.Huawei.GSM.AMR\_calls

AMR KPIs

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CALL_DROP_AMRFR_CALL_FAIL_TIMES	ACCUMULATION	INT8	M0121A:Full Rate AMR Service Channel Call Drop Times	B1275071443.C1278095417	Sum	hucsvbh, huctvbh
CALL_DROP_AMRHR_CALL_FAIL_TIMES	ACCUMULATION	INT8	M0121B:Half Rate AMR Service Channel Call Drop Times	B1275071443.C1278095418	Sum	hucsvbh, huctvbh
CALL_DROP_CALL_TCHF_AMR_RATIO	INTENSITY	FLOAT	A0409N:Full Rate AMR Call Drop Ratio	B1275071443.C1278095438	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CALL_DROP_CALL_TCHH_AMR_RATIO	INTENSITY	FLOAT	A0409P:Half Rate AMR Call Drop Ratio	B1275071443.C1278095439	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum

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CALL_HO_OCCUPY_SUCC_TCHF_AMR	ACCUMULATION	INT8	A0409J:Full Rate AMR TCH Successful Handover Occupancy Times (Service Channel)	B1275071443.C1278095434	Sum	hucsvbh, huctvbh
CALL_HO_OCCUPY_SUCC_TCHH_AMR	ACCUMULATION	INT8	A0409M:Half Rate AMR TCH Successful Handover Occupancy Times (Service Channel)	B1275071443.C1278095437	Sum	hucsvbh, huctvbh
CALL_OCCUPY_SUCC_TCHF_AMR	ACCUMULATION	INT8	A0409I:Full Rate AMR TCH Successful Call Occupancy Times (Service Channel)	B1275071443.C1278095433	Sum	hucsvbh, huctvbh
CALL_OCCUPY_SUCC_TCHF_SIG	ACCUMULATION	INT8	A0409H:Full Rate TCH Successful Occupancy Times (Signaling Channel)	B1275071443.C1278095432	Sum	hucsvbh, huctvbh
CALL_OCCUPY_SUCC_TCHH_AMR	ACCUMULATION	INT8	A0409L:Half Rate AMR TCH Successful Call Occupancy Times (Service Channel)	B1275071443.C1278095436	Sum	hucsvbh, huctvbh
CALL_OCCUPY_SUCC_TCHH_SIG	ACCUMULATION	INT8	A0409K:Half Rate TCH Successful Occupancy Times (Signaling Channel)	B1275071443.C1278095435	Sum	hucsvbh, huctvbh
CALL_SPEECH_VER_1_RE	INTENSITY	FLOAT	A0409B:Call Proportion Of	B1275071443.C1278095426	Average	Average, hucsvbh,

Q_TCHF_RATIO			Full Rate Speech Version 1			huctvbh, Maximum, Minimum, Sum
CALL_SPEECH_VER_1_REQ_TCHF	ACCUMULATION	INT8	A0401A:Request Times Of Full Rate Speech Version 1	B1275071443.C1278095419	Sum	hucsvbh, huctvbh
CALL_SPEECH_VER_1_REQ_TCHH_RATIO	INTENSITY	FLOAT	A0409E:Call Proportion Of Half Rate Speech Version 1	B1275071443.C1278095429	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CALL_SPEECH_VER_1_REQ_TCHH	ACCUMULATION	INT8	A0402A:Request Times Of Half Rate Speech Version 1	B1275071443.C1278095422	Sum	hucsvbh, huctvbh
CALL_SPEECH_VER_2_REQ_TCHF_RATIO	INTENSITY	FLOAT	A0409C:Call Proportion Of Full Rate Speech Version 2	B1275071443.C1278095427	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CALL_SPEECH_VER_2_REQ_TCHF	ACCUMULATION	INT8	A0401B:Request Times Of Full Rate Speech Version 2	B1275071443.C1278095420	Sum	hucsvbh, huctvbh
CALL_SPEECH_VER_2_REQ_TCHH_RATIO	INTENSITY	FLOAT	A0409F:Call Proportion Of Half Rate Speech Version	B1275071443.C1278095430	Average	Average, hucsvbh, huctvbh, Maximum

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			2			m, Minimum, Sum
CALL_SPEECH_VER_2_REQ_TCHH	ACCUMULATION	INT8	A0402B:Request Times Of Half Rate Speech Version 2	B1275071443.C1278095423	Sum	hucsvbh, huctvbh
CALL_SPEECH_VER_3_REQ_TCHF_RATIO	INTENSITY	FLOAT	A0409D:Call Proportion Of Full Rate Speech Version 3	B1275071443.C1278095428	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CALL_SPEECH_VER_3_REQ_TCHF	ACCUMULATION	INT8	A0401C:Request Times Of Full Rate Speech Version 3	B1275071443.C1278095421	Sum	hucsvbh, huctvbh
CALL_SPEECH_VER_3_REQ_TCHH_RATIO	INTENSITY	FLOAT	A0409G:Call Proportion Of Half Rate Speech Version 3	B1275071443.C1278095431	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CALL_SPEECH_VER_3_REQ_TCHH	ACCUMULATION	INT8	A0402C:Request Times Of Half Rate Speech Version 3	B1275071443.C1278095424	Sum	hucsvbh, huctvbh
CALL_SPEECH_VER_REQ_TOTAL_NUMBER	ACCUMULATION	INT8	A0409A:Number Of Speech Version Message	B1275071443.C1278095425	Sum	hucsvbh, huctvbh
RQ_TIMES_FULL_RATE_SPC_V5	ACCUMULATION	INT8	A0402D:Request Times Of Full Rate Speech Version 5	B1275071443.C1282411479	Sum	hucsvbh, huctvbh

SUCC_CALL_OCPY_TIME_SVC_CHNL	ACCUMULATION	INT8	A0409Q:WBA MR TCH Successful Call Occupancy Times (Service Channel)	B1275071443.C128 2411481	Sum	hucsvbh, huctvbh
SVC_CHNL_CD_TIMES	ACCUMULATION	INT8	M0121C:WBA MR Service Channel Call Drop Times	B1275071443.C128 2411478	Sum	hucsvbh, huctvbh

### 7.9.5 Cell.Huawei.GSM.Assignment\_failures

Assignment failures

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
A_CALL_REEST_INCL_DR	ACCUMULATION	INT8	A312Ea:Failed Assignments during Call Re-establishment on the A Interface (Including Directed Retry)	B1275071424.C12 78076449	Sum	hucsvbh, huctvbh
A_ECALL_INCLUDE_DR	ACCUMULATION	INT8	A312Da:Failed Assignments during Emergency Call on the A Interface (Including Directed Retry)	B1275071424.C12 78076448	Sum	hucsvbh, huctvbh
A_INTERF_FAILURE	ACCUMULATION	INT8	A3129G:Failed Assignments (A Interface Failure)	B1275071424.C12 78076461	Sum	hucsvbh, huctvbh

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A_MOC_INCL UDE_DR	ACCUMULA TION	INT8	A312Aa:Failed Assignments during MOC on the A Interface (Including Directed Retry)	B1275071424.C12 78076446	Sum	hucsvbh, huctvbh
A_MTC_INCL UDE_DR	ACCUMULA TION	INT8	A312Ca:Failed Assignments during MTC on the A Interface (Including Directed Retry)	B1275071424.C12 78076447	Sum	hucsvbh, huctvbh
CALL_REEST NOTINCL_DR _TCHF	ACCUMULA TION	INTEG ER	A3127E:Failed Assignments during Call Re- establishment on the Um Interface (TCHF,Excludi ng Directed Retry)	B1275071424.C12 78076441	Sum	hucsvbh, huctvbh
CALL_REEST NOTINCL_DR _TCHH	ACCUMULA TION	INTEG ER	A3128E:Failed Assignments during Call Re- Establishment on the Um Interface (TCHH, Excluding Directed Retry)	B1275071424.C12 78076445	Sum	hucsvbh, huctvbh
CIC_ALLOC	ACCUMULA TION	INT8	A3129F:Failed Assignments (CIC Allocated)	B1275071424.C12 78076460	Sum	hucsvbh, huctvbh
ECALL_NOT_I NCL_DR_TCH F	ACCUMULA TION	INTEG ER	A3127D:Failed Assignments during Emergency Call on the Um Interface (TCHF,Excludi ng Directed Retry)	B1275071424.C12 78076440	Sum	hucsvbh, huctvbh

ECALL_NOT_I NCL_DR_TCH H	ACCUMULA TION	INTEG ER	A3128D:Failed Assignments during Emergency Call on the Um Interface (TCHH,Excludi ng Directed Retry)	B1275071424.C12 78076444	Sum	hucsvbh, huctvbh
FAIL_ASG_NO _ATER_RES_A VL	ACCUMULA TION	INT8	A3129T:Failed Assignments (No Ater Resource Available)	B1275071424.C12 78076522	Sum	hucsvbh, huctvbh
FAIL_ASG_TC H_ASSIG_RPT _A	ACCUMULA TION	INT8	CA312A:Failed Assignments (TCH Assigned Repeatedly over A Interface)	B1275071424.C12 78076521	Sum	hucsvbh, huctvbh
FAIL_ASG_U M_CAUSE	ACCUMULA TION	INT8	A3169A:Failed Assignments (Um Cause)	B1275071424.C12 78076518	Sum	hucsvbh, huctvbh
Frst_APPLY_T RSL_FAIL	ACCUMULA TION	INT8	A3129B:Failed Assignments (First Assignment, Terrestrial Resource Request Failed)	B1275071424.C12 78076467	Sum	hucsvbh, huctvbh
Frst_ASS_EXP	ACCUMULA TION	INT8	A3129C:Failed Assignments (First Assignment, Assignment Timed Out)	B1275071424.C12 78076464	Sum	hucsvbh, huctvbh
Frst_ASS_NO_ CH	ACCUMULA TION	INT8	A312A:Failed Assignments	B1275071424.C12 78076463	Sum	hucsvbh, huctvbh

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			(First Assignment, No Channel Available in Assignment Procedure)			
Frst_DR_EXP	ACCUMULATION	INT8	A3129O:Failed Assignments (First Assignment, Directed Retry Timed Out)	B1275071424.C1278076466	Sum	hucsvbh, huctvbh
Frst_DR_NO_CH	ACCUMULATION	INT8	A312K:Failed Assignments (First Assignment, No Channel Available in Directed Retry Procedure)	B1275071424.C1278076465	Sum	hucsvbh, huctvbh
INVALID_MSG_CONTENTS	ACCUMULATION	INT8	A3129J:Failed Assignments (Invalid Message)	B1275071424.C1278076458	Sum	hucsvbh, huctvbh
INVALID_STATE	ACCUMULATION	INT8	A3129I:Failed Assignments (Invalid State)	B1275071424.C1278076457	Sum	hucsvbh, huctvbh
MOC_NOT_IN_CL_DR_TCHF	ACCUMULATION	INTEGER	A3127A:Failed Assignments during MOC on the Um Interface (TCHF,Excluding Directed Retry)	B1275071424.C1278076438	Sum	hucsvbh, huctvbh
MOC_NOT_IN_CL_DR_TCHH	ACCUMULATION	INTEGER	A3128A:Failed Assignments during MOC on the Um Interface (TCHH,Excluding Directed	B1275071424.C1278076442	Sum	hucsvbh, huctvbh

			Retry)			
MSC_CLR_CMD	ACCUMULATION	INT8	A3129H:Failed Assignments (Clear Commands Sent By MSC)	B1275071424.C12 78076462	Sum	hucsvbh, huctvbh
MTC_NOT_INCL_DR_TCHF	ACCUMULATION	INTEGER	A3127C:Failed Assignments during MTC on the Um Interface (TCHF,Excluding Directed Retry)	B1275071424.C12 78076439	Sum	hucsvbh, huctvbh
MTC_NOT_INCL_DR_TCHH	ACCUMULATION	INTEGER	A3128C:Failed Assignments during MTC on the Um Interface (TCHH,Excluding Directed Retry)	B1275071424.C12 78076443	Sum	hucsvbh, huctvbh
NO_CIC	ACCUMULATION	INT8	A3129E:Failed Assignments (CIC Unavailable)	B1275071424.C12 78076459	Sum	hucsvbh, huctvbh
NO_SPEECH_VER	ACCUMULATION	INT8	A3129S:Failed Assignments (Requested Speech Version Unavailable)	B1275071424.C12 78076511	Sum	hucsvbh, huctvbh
RECON_SUC_APPLY_TRSL_FAIL	ACCUMULATION	INT8	A3129N:Failed Assignments (Reconnection to Old Channels, Terrestrial Resource	B1275071424.C12 78076474	Sum	hucsvbh, huctvbh

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			Request Failed)			
RECON_SUC_ASS_RECONN_SUC	ACCUMULATION	INT8	A3129D:Failed Assignments (Reconnection to Old Channels, Reconnection to Old Channel in Assignment)	B1275071424.C12 78076469	Sum	hucsvbh, huctvbh
RECON_SUC_DR_RECONN_SUC	ACCUMULATION	INT8	A3129R:Failed Assignments (Reconnection to Old Channels, Reconnection to Old Channel in Directed Retry)	B1275071424.C12 78076472	Sum	hucsvbh, huctvbh
RECONN_SUC_C_ASS_EXP	ACCUMULATION	INT8	A3129P:Failed Assignments (Reconnection to Old Channels, Timer Expired in Assignment)	B1275071424.C12 78076470	Sum	hucsvbh, huctvbh
RECONN_SUC_C_ASS_NO_CH	ACCUMULATION	INT8	A312L:Failed Assignments (Reconnection to Old Channels, No Channel Available in Assignment)	B1275071424.C12 78076468	Sum	hucsvbh, huctvbh
RECONN_SUC_C_DR_EXP	ACCUMULATION	INT8	A3129Q:Failed Assignments (Reconnection to Old Channels, Timer Expired in Directed Retry)	B1275071424.C12 78076473	Sum	hucsvbh, huctvbh
RECONN_SUC	ACCUMULATION	INT8	A312M:Failed	B1275071424.C12	Sum	hucsvbh,

C_DR_NO_CH	TION		Assignments (Reconnection to Old Channels, No Channel Available in Directed Retry)	78076471		huctvbh
SIG	ACCUMULATION	INT8	A312S:Failed Assignments (Signaling Channel)	B1275071424.C12 78076450	Sum	hucsvbh, huctvbh
TOT_FAIL_ASSIGNMENT	ACCUMULATION	INT8	Total Failed Assignments	B1275071424.C12 78076518 + C1278076521 + C1278076522	Sum	hucsvbh, huctvbh

### 7.9.6 Cell.Huawei.GSM.Assignment\_mode\_modify

Assignment mode modify commands

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CHMD_CMD_CALL_REEST_T_TCHF	ACCUMULATION	INTEGER	A3147E:Mode Modify Commands (Call Re-establishment) (TCHF)	B1275071424.C12 78076478	Sum	hucsvbh, huctvbh
CHMD_CMD_CALL_REEST_T_TCHH	ACCUMULATION	INTEGER	A3148E:Mode Modify Commands (Call Re-establishment) (TCHH)	B1275071424.C12 78076482	Sum	hucsvbh, huctvbh
CHMD_CMD_ECALL_TCHF	ACCUMULATION	INTEGER	A3147D:Mode Modify Commands	B1275071424.C12 78076477	Sum	hucsvbh, huctvbh

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			(Emergency Call) (TCHF)			
CHMD_CMD_MOC_TCHF	ACCUMULATION	INTEGER	A3147A:Mode Modify Commands (MOC) (TCHF)	B1275071424.C1278076475	Sum	hucsvbh, huctvbh
CHMD_CMD_MOC_TCHH	ACCUMULATION	INTEGER	A3148A:Mode Modify Commands (MOC) (TCHH)	B1275071424.C1278076479	Sum	hucsvbh, huctvbh
CHMD_CMD_MTC_TCHF	ACCUMULATION	INTEGER	A3147C:Mode Modify Commands (MTC) (TCHF)	B1275071424.C1278076476	Sum	hucsvbh, huctvbh
CHMD_CMD_MTC_TCHH	ACCUMULATION	INTEGER	A3148C:Mode Modify Commands (MTC) (TCHH)	B1275071424.C1278076480	Sum	hucsvbh, huctvbh
CHMD_FAIL_A_INTF_FAIL	ACCUMULATION	INTEGER	A3159G:Failed Mode Modify Attempts (A Interface Failure)	B1275071424.C1278076494	Sum	hucsvbh, huctvbh
CHMD_FAIL_APPLY_TRSL_FAIL	ACCUMULATION	INTEGER	A3159B:Failed Mode Modify Attempts (Terrestrial Resource Request Failed)	B1275071424.C1278076493	Sum	hucsvbh, huctvbh
CHMD_FAIL_CALL_REEST_TCHF	ACCUMULATION	INT8	A3157E:Failed Mode Modify Attempts (Call Re-establishment) (TCHF)	B1275071424.C1278076486	Sum	hucsvbh, huctvbh
CHMD_FAIL_CALL_REEST_TCHH	ACCUMULATION	INT8	A3158E:Failed Mode Modify Attempts (Call Re-establishment) (TCHH)	B1275071424.C1278076490	Sum	hucsvbh, huctvbh

CHMD_FAIL_CIC_ALLOC	ACCUMULATION	INTEGER	A3159F:Failed Mode Modify Attempts (CIC Allocated)	B1275071424.C1278076492	Sum	hucsvbh, huctvbh
CHMD_FAIL_ECALL_TCHF	ACCUMULATION	INT8	A3157D:Failed Mode Modify Attempts (Emergency Call) (TCHF)	B1275071424.C1278076485	Sum	hucsvbh, huctvbh
CHMD_FAIL_EXP	ACCUMULATION	INTEGER	A3159C:Failed Mode Modify Attempts (Timer Expired)	B1275071424.C1278076496	Sum	hucsvbh, huctvbh
CHMD_FAIL_MOC_TCHF	ACCUMULATION	INT8	A3157A:Failed Mode Modify Attempts (MOC) (TCHF)	B1275071424.C1278076483	Sum	hucsvbh, huctvbh
CHMD_FAIL_MOC_TCHH	ACCUMULATION	INT8	A3158A:Failed Mode Modify Attempts (MOC) (TCHH)	B1275071424.C1278076487	Sum	hucsvbh, huctvbh
CHMD_FAIL_MSC_CLR_CMD	ACCUMULATION	INTEGER	A3159H:Failed Mode Modify Attempts (Clear Commands Sent By MSC)	B1275071424.C1278076495	Sum	hucsvbh, huctvbh
CHMD_FAIL_MTC_TCHF	ACCUMULATION	INT8	A3157C:Failed Mode Modify Attempts (MTC) (TCHF)	B1275071424.C1278076484	Sum	hucsvbh, huctvbh
CHMD_FAIL_MTC_TCHH	ACCUMULATION	INT8	A3158C:Failed Mode Modify Attempts (MTC) (TCHH)	B1275071424.C1278076488	Sum	hucsvbh, huctvbh
CHMD_FAIL_NO_CIC	ACCUMULATION	INTEGER	A3159E:Failed Mode Modify	B1275071424.C1278076491	Sum	hucsvbh, huctvbh

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			Attempts (CIC Unavailable)			
CHMD_FAIL_NO_SPEECH_VER	ACCUMULATION	INT8	A3159I:Failed Mode Modify Attempts (Requested Speech Version Unavailable)	B1275071424.C1278076512	Sum	hucsvbh, huctvbh
Fail_MM_atts_emerg_Call_TCHH	ACCUMULATION	INTEGER	A3158D:Failed Mode Modify Attempts (Emergency Call) (TCHH)	B1275071424.C1278076489	Sum	hucsvbh, huctvbh
FAIL_MODE_MOD_ATT_NO_ATER_AVAILABLE	ACCUMULATION	INT8	A3159J:Failed Mode Modify Attempts (No Ater Resource Available)	B1275071424.C1278076523	Sum	hucsvbh, huctvbh
FAIL_MODE_MODIFY_ATT_UM_CAUSE	ACCUMULATION	INT8	A3169B:Failed Mode Modify Attempts (Um Cause)	B1275071424.C1278076519	Sum	hucsvbh, huctvbh
MM_cmds_emerg_Call_TCHH	ACCUMULATION	INTEGER	A3148D:Mode Modify Commands (Emergency Call) (TCHH)	B1275071424.C1278076481	Sum	hucsvbh, huctvbh

### 7.9.7 Cell.Huawei.GSM.Assignment\_overview

assignment overview

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ASS_CMD	ACCUMULATION	INT8	CA311:Assignment Commands	B1275071424.C1278076506	Sum	hucsvbh, huctvbh
ASS_FAIL_NO_CH	ACCUMULATION	INT8	CA312:Failed Assignments (Channel Unavailable)	B1275071424.C1278076509	Sum	hucsvbh, huctvbh

ASS_FAIL_NO_IDLE_ABIS	ACCUMULATION	INT8	A312F: Number of Assignment Failures (No Abis Resource Available)	B1275071424.C1278076510	Sum	hucsvbh, huctvbh
ASS_REQ	ACCUMULATION	INT8	CA310: Assignment Requests	B1275071424.C1278076503	Sum	hucsvbh, huctvbh
ASS_SUCC_RATE	INTENSITY	FLOAT	RCA313: Success Rate of TCH Assignment	B1275071424.C1278076505	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
ASS_SUCC	ACCUMULATION	INT8	CA313: Successful Assignments	B1275071424.C1278076504	Sum	hucsvbh, huctvbh
CALL_ESTB_SUCC_RATE	INTENSITY	FLOAT	RA333: Success Rate of Call Establishment	B1275071424.C1278076513	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CHMDI_CMD	ACCUMULATION	INT8	CA314: Mode Modify Commands	B1275071424.C1278076507	Sum	hucsvbh, huctvbh
FAIL_ASGUM_MSG_FAIL	ACCUMULATION	INT8	CA315: Number of Failed Assignments (Um Interface Message Failure)	B1275071424.C1282412144	Sum	hucsvbh, huctvbh
FORCE_EFR_ENABLE_TIMES	ACCUMULATION	INT8	A03400: Force efr enable times .Obsolete in V900R011.	B1275071424.C1278076517	Sum	hucsvbh, huctvbh

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UM_ASS_CM PL	ACCUMULA TION	INT8	CA316:Comple ted Assignments (Um Interface)	B1275071424.C127 8076508	Sum	hucsvbh, huctvbh
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### 7.9.8 Cell.Huawei.GSM.Assignment\_req\_cmd\_complete

Assignment request and command complete

KPI	Type	Data Type	Description	Derivation	Default Aggrega tor	Other Aggrega tors
ASG_CMP_TI ME_SPCH_V5 _DR_TCHF	ACCUMULA TION	INT8	A3114:Cell Assignment Complete Times of Speech Version 5 (Direct Retry) (TCHF)	B1275071424.C12 82411509	Sum	hucsvbh, huctvbh
ASG_RQ_MA X_BTRC_ASS IG_DUR_TO	ACCUMULA TION	INT8	A3101J:Assign ment Requests for Serving Cell (Maximum Better Cell Assigning Duration Timeout)	B1275071424.C12 82412169	Sum	hucsvbh, huctvbh
ASG_RQ_TC H_ASSIG_RP T_A	ACCUMULA TION	INT8	CA310A:Assign ment Requests (TCH Assigned Repeatedly over A Interface)	B1275071424.C12 78076520	Sum	hucsvbh, huctvbh
ASS_CMD_C ALL_REEST_ NOTINCL_DR _TCHF	ACCUMULA TION	INTEG ER	A3117E:Assign ment Commands (Call Re- establishment) (TCHF) (Excluding Directed Retry)	B1275071424.C12 78076433	Sum	hucsvbh, huctvbh
ASS_CMD_C ALL_REEST_ NOTINCL_DR	ACCUMULA TION	INTEG ER	A3118E:Assign ment Commands	B1275071424.C12 78076437	Sum	hucsvbh, huctvbh

_TCHH			(Call Re-establishment) (TCHH) (Excluding Directed Retry)			
ASS_CMD_E CALL_NOT_I NCL_DR_TC HF	ACCUMULA TION	INTEG ER	A3117D:Assign ment Commands (Emergency Call) (TCHF) (Excluding Directed Retry)	B1275071424.C12 78076432	Sum	hucsvbh, huctvbh
ASS_CMD_E CALL_NOT_I NCL_DR_TC HH	ACCUMULA TION	INTEG ER	A3118D:Assign ment Commands (Emergency Call) (TCHH) (Excluding Directed Retry)	B1275071424.C12 78076436	Sum	hucsvbh, huctvbh
ASS_CMD_M OC_NOT_INC L_DR_TCHF	ACCUMULA TION	INTEG ER	A3117A:Assign ment Commands (MOC) (TCHF) (Excluding Directed Retry)	B1275071424.C12 78076430	Sum	hucsvbh, huctvbh
ASS_CMD_M OC_NOT_INC L_DR_TCHH	ACCUMULA TION	INTEG ER	A3118A:Assign ment Commands (MOC) (TCHH) (Excluding Directed Retry)	B1275071424.C12 78076434	Sum	hucsvbh, huctvbh
ASS_CMD_M TC_NOT_INC L_DR_TCHF	ACCUMULA TION	INTEG ER	A3117C:Assign ment Commands (MTC) (TCHF) (Excluding Directed Retry)	B1275071424.C12 78076431	Sum	hucsvbh, huctvbh
ASS_CMD_M	ACCUMULA	INTEG	A3118C:Assign	B1275071424.C12	Sum	hucsvbh,

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TC_NOT_INCREMENT_DR_TCHH	TION	ER	ment Commands (MTC) (TCHH) (Excluding Directed Retry)	78076435		huctvbh
ASS_CMP_SPEECH_VER3_DIRECT_RETRY_DR_TCHF	ACCUMULATION	INT8	A3111A:Cell Assignment Complete Times of Speech Version 3 (Direct Retry) (TCHF)	B1275071424.C12 78076514	Sum	hucsvbh, huctvbh
ASS_CMP_SPEECH_VER3_DIRECT_RETRY_DR_TCHH	ACCUMULATION	INT8	A3112A:Cell Assignment Complete Times of Speech Version 3 (Direct Retry) (TCHH)	B1275071424.C12 78076515	Sum	hucsvbh, huctvbh
ASS_CMPL_SV1_NOT_INCREMENT_DR_TCHF	ACCUMULATION	INT8	A3167A:Speech Version 1 Completed Assignments (Excluding Directed Retry) (TCHF)	B1275071424.C12 78076497	Sum	hucsvbh, huctvbh
ASS_CMPL_SV1_NOT_INCREMENT_DR_TCHH	ACCUMULATION	INT8	A3168A:Speech Version 1 Completed Assignments (Excluding Directed Retry) (TCHH)	B1275071424.C12 78076500	Sum	hucsvbh, huctvbh
ASS_CMPL_SV2_NOT_INCREMENT_DR_TCHF	ACCUMULATION	INT8	A3167B:Speech Version 2 Completed Assignments (Excluding Directed Retry) (TCHF)	B1275071424.C12 78076498	Sum	hucsvbh, huctvbh
ASS_CMPL_SV2_NOT_INCREMENT	ACCUMULATION	INT8	A3168B:Speech Version 2	B1275071424.C12 78076501	Sum	hucsvbh, huctvbh

L_DR_TCHH			Completed Assignments (Excluding Directed Retry) (TCHH)			
ASS_CMPL_S V3_NOT_INC L_DR_TCHF	ACCUMULATION	INT8	A3167C:Speech Version 3 Completed Assignments (Excluding Directed Retry) (TCHF)	B1275071424.C12 78076499	Sum	hucsvbh, huctvbh
ASS_CMPL_S V3_NOT_INC L_DR_TCHH	ACCUMULATION	INT8	A3168C:Speech Version 3 Completed Assignments (Excluding Directed Retry) (TCHH)	B1275071424.C12 78076502	Sum	hucsvbh, huctvbh
ASS_REQ_CALL_REEST	ACCUMULATION	INT8	A3101E:Assignment Requests (Call Re-establishment)	B1275071424.C12 78076429	Sum	hucsvbh, huctvbh
ASS_REQ_EC ALL	ACCUMULATION	INT8	A3101D:Assignment Requests (Emergency Call)	B1275071424.C12 78076428	Sum	hucsvbh, huctvbh
ASS_REQ_MOC	ACCUMULATION	INT8	A3101A:Assignment Requests (MOC)	B1275071424.C12 78076426	Sum	hucsvbh, huctvbh
ASS_REQ_MTC	ACCUMULATION	INT8	A3101C:Assignment Requests (MTC)	B1275071424.C12 78076427	Sum	hucsvbh, huctvbh
ASS_REQ_SIG_SDCCH	ACCUMULATION	INT8	A3100K:Assignment Requests (Signaling Channel)	B1275071424.C12 78076516	Sum	hucsvbh, huctvbh

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			SDCCH			
ASS_REQ_SIG_TCH	ACCUMULATION	INT8	A3100A:Assignment Requests (Signaling Channel) TCH	B1275071424.C12 78076417	Sum	hucsvbh, huctvbh
ASS_REQ_TCH_CHG	ACCUMULATION	INT8	A3100I:Assignment Requests (TCHF or TCHH, Channel Type Changeable)	B1275071424.C12 78076425	Sum	hucsvbh, huctvbh
ASS_REQ_TCH_NOCHG	ACCUMULATION	INT8	A3100F:Assignment Requests (TCHF or TCHH, Channel Type Unchangeable)	B1275071424.C12 78076422	Sum	hucsvbh, huctvbh
ASS_REQ_TCHF_ONLY	ACCUMULATION	INT8	A3100B:Assignment Requests (TCHF Only)	B1275071424.C12 78076418	Sum	hucsvbh, huctvbh
ASS_REQ_TCHF_PREF_CHG	ACCUMULATION	INT8	A3100G:Assignment Requests (TCHF Preferred, Channel Type Changeable)	B1275071424.C12 78076423	Sum	hucsvbh, huctvbh
ASS_REQ_TCHF_PREF_NOCHG	ACCUMULATION	INT8	A3100D:Assignment Requests (TCHF Preferred, Channel Type Unchangeable)	B1275071424.C12 78076420	Sum	hucsvbh, huctvbh
ASS_REQ_TCHH_ONLY	ACCUMULATION	INT8	A3100C:Assignment Requests (TCHH Only)	B1275071424.C12 78076419	Sum	hucsvbh, huctvbh
ASS_REQ_TCHH_PREF_CHG	ACCUMULATION	INT8	A3100H:Assignment Requests (TCHH Preferred, Channel Type Changeable)	B1275071424.C12 78076424	Sum	hucsvbh, huctvbh

ASS_REQ_TC HH_PREF_NO CHG	ACCUMULA TION	INT8	A3100E:Assign ment Requests (TCHH Preferred, Channel Type Unchangeable)	B1275071424.C12 78076421	Sum	hucsvbh, huctvbh
Comp_Ass_Ass s_dir_Retry_proc_Again	ACCUMULA TION	INTEG ER	A313B:Comple ted Assignments(As signment Directed Retry Procedure Again)	B1275071424.C12 78076456	Sum	hucsvbh, huctvbh
Comp_Ass_Ass s_TCHF_again	ACCUMULA TION	INTEG ER	A3137B:Comple ted Assignments(As signment TCHF Again)	B1275071424.C12 78076452	Sum	hucsvbh, huctvbh
Comp_Ass_Ass s_TCHF_One_ Time	ACCUMULA TION	INTEG ER	A3137A:Comple ted Assignments (Assignment TCHF One Time)	B1275071424.C12 78076451	Sum	hucsvbh, huctvbh
Comp_Ass_Ass s_TCHH_Agai n	ACCUMULA TION	INTEG ER	A3138B:Comple ted Assignments(As signment TCHH Again)	B1275071424.C12 78076454	Sum	hucsvbh, huctvbh
Comp_Ass_Ass s_TCHH_One_ Time	ACCUMULA TION	INTEG ER	A3138A:Comple ted Assignments(As signment TCHH One Time)	B1275071424.C12 78076453	Sum	hucsvbh, huctvbh
Comp_Ass_dir _Retry_proc_O ne_time	ACCUMULA TION	INTEG ER	A313A:Comple ted Assignments(Di	B1275071424.C12 78076455	Sum	hucsvbh, huctvbh

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			ected Retry Procedure One time)			
SPCH_V5_CM P_ASG_EXCL _DR_TCHF	ACCUMULATION	INT8	A3113:Speech Version 5 Completed Assignments (Excluding Directed Retry) (TCHF)	B1275071424.C1282411508	Sum	hucsvbh, huctvbh

### 7.9.9 Cell.Huawei.GSM.BSSGP\_capability

BSSGP capability

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
BSSGP_TRAN_RX_FLUSH_LL_PDU	ACCUMULATION	INT8	L9901: Number of FLUSH LL PDUs Received by BSSGP Sublayer	B1275072917.C1279569417	Sum	hucsvbh, huctvbh
BSSGP_TRAN_TX_RADIO_STATUS_PDU	ACCUMULATION	INT8	L9904: Number of RADIO STATUS PDUs Sent by BSSGP Sublayer	B1275072917.C1279569420	Sum	hucsvbh, huctvbh
BSSGP_TRAN_TX_RESUME_PDU	ACCUMULATION	INT8	L9903: Number of RESUME PDUs Sent by BSSGP Sublayer	B1275072917.C1279569419	Sum	hucsvbh, huctvbh
BSSGP_TRAN_TX_SUSPEND_PDU	ACCUMULATION	INT8	L9902: Number of SUSPEND PDUs Sent by BSSGP Sublayer	B1275072917.C1279569418	Sum	hucsvbh, huctvbh
DISC_PDU_BSSGP_RX_FLUSH_LL_PDU	ACCUMULATION	INT8	L9905: Number of Discarded PDUs in Buffer After FLUSH	B1275072917.C1279569421	Sum	hucsvbh, huctvbh

			LL PDUs Received by BSSGP Sublayer			
TRF_PDU_BSSGP_RX_FLUSH_LL_PDU	ACCUMULATION	INT8	L9906: Number of Transferred PDUs in Buffer After FLUSH LL PDUs Received by BSSGP Sublayer	B1275072917.C1279569422	Sum	hucsvbh, huctvbh

### 7.9.10 Cell.Huawei.GSM.Call\_drop\_after\_answer

Call drop after answer

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
AFTER_CONN_TCHF_TRAFF	ACCUMULATION	INT8	M317: Call Drops after Answer (TCHF) (Traffic Channel)	B1275071420.C1278072487	Sum	hucsvbh, huctvbh
AFTER_CONN_TCHH_TRAFF	ACCUMULATION	INT8	M327: Call Drops after Answer (TCHH) (Traffic Channel)	B1275071420.C1278072488	Sum	hucsvbh, huctvbh
AFTER_CONN_TRAFF_OVERLAY_CELL	ACCUMULATION	INT8	M3324E: Call Drops After Answer on the TRX in the Overlaid Subcell (Traffic Channel)	B1275071420.C1278072590	Sum	hucsvbh, huctvbh

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AFTER_CON N_TRAF_ULC ELL	ACCUMULA TION	INT8	M3314E:Call Drops After Answer on the TRX in the Underlaid Subcell (Traffic Channel)	B1275071420.C127 8072559	Sum	hucsvbh, huctvbh
CALL_DROPS _AFTER_CON N	ACCUMULA TION	INT8	CM337:Call Drops after Answer	B1275071420.C127 8072523	Sum	hucsvbh, huctvbh

### 7.9.11 Cell.Huawei.GSM.Call\_drop\_clr\_req\_on\_A\_iface

Call drop due to clear request on A interface

KPI	Type	Data Type	Description	Derivation	Default Aggregat or	Other Aggrega tors
A_CLR_REQ_S D	ACCUMULA TION	INT8	M309:Clear Requests Sent on the A Interface (SDCCH)	B1275071420.C127 8072491	Sum	hucsvbh, huctvbh
A_CLR_REQ_T ALIMIT	ACCUMULA TION	INT8	CM339C:Clear Requests Sent on the A interface (TA Limit)	B1275071420.C127 8072529	Sum	hucsvbh, huctvbh
A_CLR_REQ_T CH_SIG	ACCUMULA TION	INT8	CM369:Clear Requests Sent on the A interface (TCH) (Signaling Channel)	B1275071420.C127 8072525	Sum	hucsvbh, huctvbh
A_CLR_REQ_T CH_TRAF_HO	ACCUMULA TION	INT8	CM339B:Clear Requests Sent on the A interface in Handover State (TCH) (Traffic Channel)	B1275071420.C127 8072527	Sum	hucsvbh, huctvbh
A_CLR_REQ_T	ACCUMULA	INT8	CM339A:Clear	B1275071420.C127	Sum	hucsvbh,

CH_TRAF_STATI	TION		Requests Sent on A interface in Stable State (TCH) (Traffic Channel)	8072526		huctvbh
A_CLR_REQ_TCH_TRAF	ACCUMULATION	INT8	CM339:Clear Requests Sent on the A interface (TCH) (Traffic Channel)	B1275071420.C127 8072528	Sum	hucsvbh, huctvbh
A_CLR_REQ_TCH_SIG	ACCUMULATION	INT8	M349:Clear Requests Sent on the A Interface (TCHF) (Signaling Channel)	B1275071420.C127 8072492	Sum	hucsvbh, huctvbh
A_CLR_REQ_TCH_TRAF_HO	ACCUMULATION	INT8	M319B:Clear Requests Sent on the A Interface in Handover State (TCHF) (Traffic Channel)	B1275071420.C127 8072495	Sum	hucsvbh, huctvbh
A_CLR_REQ_TCH_TRAF_STATI	ACCUMULATION	INT8	M319A:Clear Requests Sent on the A Interface (TCHF) (Traffic Channel) (Stable State)	B1275071420.C127 8072494	Sum	hucsvbh, huctvbh
A_CLR_REQ_TCH_SIG	ACCUMULATION	INT8	M359:Clear Requests Sent on the A Interface	B1275071420.C127 8072493	Sum	hucsvbh, huctvbh

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			(TCHH) (Signaling Channel)			
A_CLR_REQ_T CHH_TRAF_H O	ACCUMULA TION	INT8	M329B:Clear Requests Sent on the A Interface in Handover State (TCHH) (Traffic Channel)	B1275071420.C127 8072497	Sum	hucsvbh, huctvbh
A_CLR_REQ_T CHH_TRAF_ST ATIC	ACCUMULA TION	INT8	M329A:Clear Requests Sent on the A Interface in Stable State (TCHH) (Traffic Channel)	B1275071420.C127 8072496	Sum	hucsvbh, huctvbh
CLR_RQ_A_EQ UIPMENT_FAI L	ACCUMULA TION	INT8	CM401:Numbe r of Clear Requests Sent on the A Interface (Equipment Failure)	B1275071420.C128 2412155	Sum	hucsvbh, huctvbh
CLR_RQ_A_O M	ACCUMULA TION	INT8	CM404:Numbe r of Clear Requests Sent on the A Interface (OM)	B1275071420.C128 2412158	Sum	hucsvbh, huctvbh
CLR_RQ_A_U M_FAIL	ACCUMULA TION	INT8	CM402:Numbe r of Clear Requests Sent on the A Interface (Um Interface Failure)	B1275071420.C128 2412156	Sum	hucsvbh, huctvbh
CLR_RQ_A_U M_MSG_FAIL	ACCUMULA TION	INT8	CM403:Numbe r of Clear Requests Sent on the A	B1275071420.C128 2412157	Sum	hucsvbh, huctvbh

			Interface (Um Interface Message Failure)			
CLR_RQ_AAS G_COMPLETE	ACCUMULATION	INT8	CM400: Number of Clear Requests Sent on the A Interface (Assignment Complete)	B1275071420.C128 2412154	Sum	hucsvbh, huctvbh
TOT_A_TX_CLR_REQ	ACCUMULATION	INT8	Total Number of Clear Requests Sent on the A Interface	B1275071420.C128 2412154 + C1282412155 + C1282412156 + C1282412157 + C1282412158	Sum	hucsvbh, huctvbh

### 7.9.12 Cell.Huawei.GSM.Call\_drop\_due\_rel\_ind\_ULay\_olay

Call drop due to release indication underlay/overlay

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CALL_DROPS_REL_IND_SIG_OLCELL	ACCUMULATION	INT8	M3622A: Call Drops Due to the REL IND Received from the Signaling Channel on the TRX in the Overlaid Subcell in Stable State	B1275071420.C127 8072578	Sum	hucsvbh, huctvbh
CALL_DROPS_REL_IND_TRAF_OLCELL	ACCUMULATION	INT8	M3322B: Call Drops Due to the REL IND Received from	B1275071420.C127 8072579	Sum	hucsvbh, huctvbh

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			the Traffic Channel on the TRX in the Overlaid Subcell in Stable State			
CALL_DROPS_REL_IND_TRAF_ULCELL	ACCUMULATION	INT8	M3312B:Call Drops Due to the REL IND Received from the Traffic Channel on the TRX in the Underlaid Subcell in Stable State	B1275071420.C1278072548	Sum	hucsvbh, huctvbh
REL_IND_rxd_sig_CHNL_TRX_ulaid_sCSS	ACCUMULATION	INT8	M3612A :Call Drops Due to the REL IND Received from the Signaling Channel on the TRX in the Underlaid scell in Stable State	B1275071420.C1278072547	Sum	hucsvbh, huctvbh

### 7.9.13 Cell.Huawei.GSM.Call\_drop\_due\_to\_Abis\_fail

call drop due to Abis failure

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ABIS_LNK_FAIL_SIG_OLCELL	ACCUMULATION	INT8	M3623C:Call Drops Due to Abis Terrestrial Link Failure on the TRX in the Overlaid Subcell (Signaling Channel)	B1275071420.C1278072582	Sum	hucsvbh, huctvbh
ABIS_LNK_F	ACCUMULATION	INT8	M3613C:Call	B1275071420.C12	Sum	hucsvbh,

AIL_SIG_ULCELL	TION		Drops Due to Abis Terrestrial Link Failure on the TRX in the Underlaid Subcell (Signaling Channel)	78072551		huctvbh
ABIS_LNK_FAIL_TCHFSIG	ACCUMULATION	INT8	M343:Call Drops due to Abis Terrestrial Link Failure (TCHF) (Signaling Channel)	B1275071420.C12 78072468	Sum	hucsvbh, huctvbh
ABIS_LNK_FAIL_TCHFTRAF	ACCUMULATION	INT8	M313:Call Drops due to Abis Terrestrial Link Failure (TCHF) (Traffic Channel)	B1275071420.C12 78072469	Sum	hucsvbh, huctvbh
ABIS_LNK_FAIL_TCHHSIG	ACCUMULATION	INT8	M353:Call Drops due to Abis Terrestrial Link Failure (TCHH) (Signaling Channel)	B1275071420.C12 78072470	Sum	hucsvbh, huctvbh
ABIS_LNK_FAIL_TCHHTRAF	ACCUMULATION	INT8	M323:Call Drops due to Abis Terrestrial Link Failure (TCHH) (Traffic Channel)	B1275071420.C12 78072471	Sum	hucsvbh, huctvbh
ABIS_LNK_FAIL_TRAFO	ACCUMULATION	INT8	M3323D:Call Drops Due to	B1275071420.C12 78072583	Sum	hucsvbh, huctvbh

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LCELL			Abis Terrestrial Link Failure on the TRX in the Overlaid Subcell (Traffic Channel)			
ABIS_LNK_FAIL_TRAF_ULCELL	ACCUMULATION	INT8	M3313D:Call Drops Due to Abis Terrestrial Link Failure on the TRX in the Underlaid Subcell (Traffic Channel)	B1275071420.C1278072552	Sum	hucsvbh, huctvbh
BTS_ABIS_CIRCUIT_FAULT	ACCUMULATION	INTEGER	M3330A:Call Drops Due to Abis Link Failures in Stable Loopback State	B1275071420.C1278072530	Sum	hucsvbh, huctvbh
CALL_DROPS_ABIS_LNK_FAIL_SD	ACCUMULATION	INT8	M303:Call Drops due to Abis Terrestrial Link Failure (SDCCH)	B1275071420.C1278072467	Sum	hucsvbh, huctvbh
SIG_CALL_DROPS_ABIS_LNK_FAIL	ACCUMULATION	INT8	CM363:Call Drops Due to Abis Terrestrial Link Failure (Signaling Channel)	B1275071420.C1278072509	Sum	hucsvbh, huctvbh
TRAF_CH_ABIS_LNK_FAIL	ACCUMULATION	INT8	CM333:Call Drops due to Abis Terrestrial Link Failure (Traffic Channel)	B1275071420.C1278072517	Sum	hucsvbh, huctvbh

#### 7.9.14 Cell.Huawei.GSM.Call\_drop\_due\_to\_conn\_fail

Call drop due to connection failure

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KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
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CALL_DROPS_OTHER_SD	ACCUMULATION	INT8	M3001E:Call Drops due to CONN FAIL Received on SDCCH in Stable State (Other Causes)	B1275071420.C1278072436	Sum	hucsvbh, huctvbh
HO_ACCESS_FAIL_SD	ACCUMULATION	INT8	M3001B:Call Drops due to CONN FAIL Received on SDCCH in Stable State (HO Access Failure)	B1275071420.C1278072433	Sum	hucsvbh, huctvbh
HO_ACCESS_FAIL_TCHF_SIG	ACCUMULATION	INT8	M3401B:Call Drops due to CONN FAIL Received on TCHF (Signaling Channel) in Stable State (HO Access Failure)	B1275071420.C1278072438	Sum	hucsvbh, huctvbh
HO_ACCESS_FAIL_TCHF_TRAF	ACCUMULATION	INT8	M3101B:Call Drops due to CONN FAIL Received on TCHF (Traffic Channel) in Stable State (HO Access Failure)	B1275071420.C1278072448	Sum	hucsvbh, huctvbh
HO_ACCESS_FAIL_TCHH_SIG	ACCUMULATION	INT8	M3501B:Call Drops due to CONN FAIL Received on TCHH (Signaling Channel) in Stable State (HO Access	B1275071420.C1278072443	Sum	hucsvbh, huctvbh

			Failure)			
HO_ACCESS_FAIL_TCHH_TRAF	ACCUMULATION	INT8	M3201B:Call Drops due to CONN FAIL Received on TCHH (Traffic Channel) in Stable State (HO Access Failure)	B1275071420.C1278072453	Sum	hucsvbh, huctvbh
NO_RADIO_RES_SD	ACCUMULATION	INT8	M3001D:Call Drops due to CONN FAIL Received on SDCCH in Stable State (Radio Resource Unavailable)	B1275071420.C1278072435	Sum	hucsvbh, huctvbh
NO_RADIO_RES_TCHH_SIG	ACCUMULATION	INT8	M3501D:Call Drops due to CONN FAIL Received on TCHH (Signaling Channel) in Stable State (Radio Resource Unavailable)	B1275071420.C1278072445	Sum	hucsvbh, huctvbh
NO_RADIO_RES_TCHH_TRAF	ACCUMULATION	INT8	M3201D:Call Drops due to CONN FAIL Received on TCHH (Traffic Channel) in Stable State (Radio Resource	B1275071420.C1278072455	Sum	hucsvbh, huctvbh

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			Unavailable)			
OM_INTERV_ SD	ACCUMULA TION	INT8	M3001C:Call Drops due to CONN FAIL Received on SDCCH in Stable State (OM Intervention)	B1275071420.C127 8072434	Sum	hucsvbh, huctvbh
OM_INTERV_ TCHF_SIG	ACCUMULA TION	INT8	M3401C:Call Drops due to CONN FAIL Received on TCHF (Signaling Channel) in Stable State (OM Intervention)	B1275071420.C127 8072439	Sum	hucsvbh, huctvbh
OM_INTERV_ TCHF_TRAF	ACCUMULA TION	INT8	M3101C:Call Drops due to CONN FAIL Received on TCHF (Traffic Channel) in Stable State (OM Intervention)	B1275071420.C127 8072449	Sum	hucsvbh, huctvbh
OM_INTERV_ TCHH_SIG	ACCUMULA TION	INT8	M3501C:Call Drops due to CONN FAIL Received on TCHH (Signaling Channel) in Stable State (OM Intervention)	B1275071420.C127 8072444	Sum	hucsvbh, huctvbh
OM_INTERV_ TCHH_TRAF	ACCUMULA TION	INT8	M3201C:Call Drops due to CONN FAIL Received on TCHH (Traffic	B1275071420.C127 8072454	Sum	hucsvbh, huctvbh

			Channel) in Stable State (OM Intervention)			
OTHER_TCHF_SIG	ACCUMULATION	INT8	M3401E:Call Drops due to CONN FAIL Received on TCHF (Signaling Channel) in Stable State (Other Causes)	B1275071420.C1278072441	Sum	hucsvbh, huctvbh
OTHER_TCHF_TRAF	ACCUMULATION	INT8	M3101E:Call Drops due to CONN FAIL Received on TCHF (Traffic Channel) in Stable State (Other Causes)	B1275071420.C1278072451	Sum	hucsvbh, huctvbh
OTHER_TCHH_SIG	ACCUMULATION	INT8	M3501E:Call Drops due to CONN FAIL Received on TCHH (Signaling Channel) in Stable State (Other Causes)	B1275071420.C1278072446	Sum	hucsvbh, huctvbh
OTHER_TCHH_TRAF	ACCUMULATION	INT8	M3201E:Call Drops due to CONN FAIL Received on TCHH (Traffic Channel) in Stable State (Other Causes)	B1275071420.C1278072456	Sum	hucsvbh, huctvbh

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RADIO_RES_NO_TCHF_SIG	ACCUMULATION	INT8	M3401D:Call Drops due to CONN FAIL Received on TCHF (Signaling Channel) in Stable State (Radio Resource Unavailable)	B1275071420.C1278072440	Sum	hucsvbh, huctvbh
RADIO_RES_NO_TCHF_TRAF	ACCUMULATION	INT8	M3101D:Call Drops due to CONN FAIL Received on TCHF (Traffic Channel) in Stable State (Radio Resource Unavailable)	B1275071420.C1278072450	Sum	hucsvbh, huctvbh
RL_FAIL_SD	ACCUMULATION	INT8	M3001A:Call Drops due to CONN FAIL Received on SDCCH in Stable State (Radio Link Failure)	B1275071420.C1278072432	Sum	hucsvbh, huctvbh
RL_FAIL_TCHF_TRAF	ACCUMULATION	INT8	M3101A:Call Drops due to CONN FAIL Received on TCHF (Traffic Channel) in Stable State (Radio Link Failure)	B1275071420.C1278072447	Sum	hucsvbh, huctvbh
RL_FAIL_TCHH_SIG	ACCUMULATION	INT8	M3501A:Call Drops due to CONN FAIL Received on TCHH	B1275071420.C1278072442	Sum	hucsvbh, huctvbh

			(Signaling Channel) in Stable State (Radio Link Failure)			
RL_FAIL_TCH_H_TRAF	ACCUMULATION	INT8	M3201A:Call Drops due to CONN FAIL Received on TCHH (Traffic Channel) in Stable State (Radio Link Failure)	B1275071420.C1278072452	Sum	hucsvbh, huctvbh
RL_TCHF_SIG	ACCUMULATION	INT8	M3401A:Call Drops due to CONN FAIL Received on TCHF (Signaling Channel) in Stable State (Radio Link Failure)	B1275071420.C1278072437	Sum	hucsvbh, huctvbh

### 7.9.15 Cell.Huawei.GSM.Call\_drop\_due\_to equip\_fail

Call drop due to equipment failure

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CALL_DROPS_EQUIP_FAIL_SD	ACCUMULATION	INT8	M304:Call Drops Due to Equipment Failure (SDCCH)	B1275071420.C1278072472	Sum	hucsvbh, huctvbh
CALL_DROPS_EQUIP_FAIL	ACCUMULATION	INT8	M344:Call Drops due to	B1275071420.C1278072473	Sum	hucsvbh, huctvbh

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_TCHF_SIG			Equipment Failure (TCHF) (Signaling Channel)			
CALL_DROPS_EQUIP_FAIL_TCHH_SIG	ACCUMULATION	INT8	M354:Call Drops due to Equipment Failure (TCHH) (Signaling Channel)	B1275071420.C1278072475	Sum	hucsvbh, huctvbh
EQUIP_FAIL_TCHF_TRAF	ACCUMULATION	INT8	M314:Call Drops due to Equipment Failure (TCHF) (Traffic Channel)	B1275071420.C1278072474	Sum	hucsvbh, huctvbh
EQUIP_FAIL_TCHH_TRAF	ACCUMULATION	INT8	M324:Call Drops due to Equipment Failure (TCHH) (Traffic Channel)	B1275071420.C1278072476	Sum	hucsvbh, huctvbh

### 7.9.16 Cell.Huawei.GSM.Call\_drop\_due\_to\_err\_ind

call drops due to ERROR Indication

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CALL_DROPS_ERR_IND_SEQ_ERR_SD	ACCUMULATION	INT8	M3000C:Call Drops due to ERR IND Received on SDCCH in Stable State (Sequence Error)	B1275071420.C1278072419	Sum	hucsvbh, huctvbh
CALL_DROPS_ERR_IND_T200_EXP_SD	ACCUMULATION	INT8	M3000A:Call Drops due to ERR IND Received on	B1275071420.C1278072417	Sum	hucsvbh, huctvbh

			SDCCH in Stable State (T200 Expired)			
ERR_IND_SE Q_ERR_SIG_ OLCELL	ACCUMULA TION	INT8	M3620C:Call Drops Due to ERR IND Received from the Signaling Channel on the TRX in the Overlaid Subcell in Stable State (Sequence Error)	B1275071420.C127 8072564	Sum	hucsvbh, huctvbh
ERR_IND_SE Q_ERR_SIG_ ULCELL	ACCUMULA TION	INT8	M3610C:Call Drops Due to the ERR IND Received from the Signaling Channel on the TRX in the Underlaid Subcell in Stable State (Sequence Error)	B1275071420.C127 8072533	Sum	hucsvbh, huctvbh
ERR_IND_SE Q_ERR_TCHF _SIG	ACCUMULA TION	INT8	M3400C:Call Drops due to ERR IND Received on TCHF (Signaling Channel) in Stable State (Sequence Error)	B1275071420.C127 8072422	Sum	hucsvbh, huctvbh
ERR_IND_SE Q_ERR_TCHF	ACCUMULA TION	INT8	M3100C:Call Drops due to	B1275071420.C127 8072428	Sum	hucsvbh, huctvbh

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_TRAF			ERR IND Received on TCHF (Traffic Channel) in Stable State (Sequence Error)			
ERR_IND_SEQ_ERR_TCHH_SIG	ACCUMULATION	INT8	M3500C:Call Drops due to ERR IND Received on TCHH (Signaling Channel) in Stable State (Sequence Error)	B1275071420.C1278072425	Sum	hucsvbh, huctvbh
ERR_IND_SEQ_ERR_TCHH_TRAF	ACCUMULATION	INT8	M3200C:Call Drops due to ERR IND Received on TCHH (Traffic Channel) in Stable State (Sequence Error)	B1275071420.C1278072431	Sum	hucsvbh, huctvbh
ERR_IND_SEQ_ERR_TRAF_OLCELL	ACCUMULATION	INT8	M3320C:Call Drops Due to ERR IND Received from the Traffic Channel on the TRX in the Overlaid Subcell in Stable State (Sequence Error)	B1275071420.C1278072567	Sum	hucsvbh, huctvbh
ERR_IND_SEQ_ERR_TRAF_ULCELL	ACCUMULATION	INT8	M3310C:Call Drops Due to the ERR IND Received from the Traffic	B1275071420.C1278072536	Sum	hucsvbh, huctvbh

			Channel on the TRX in the Underlaid Subcell in Stable State (Sequence Error)			
ERR_IND_T200_EXP_SIG_O LCELL	ACCUMULATION	INT8	M3620A:Call Drops Due to ERR IND Received from the Signaling Channel on the TRX in the Overlaid Subcell in Stable State (T200 Expired)	B1275071420.C127 8072562	Sum	hucsvbh, huctvbh
ERR_IND_T200_EXP_SIG_U LCELL	ACCUMULATION	INT8	M3610A:Call Drops Due to the ERR IND Received from the Signaling Channel on the TRX in the Underlaid Subcell in Stable State (T200 Expired)	B1275071420.C127 8072531	Sum	hucsvbh, huctvbh
ERR_IND_T200_EXP_TCHF _SIG	ACCUMULATION	INT8	M3400A:Call Drops due to ERR IND Received on TCHF (Signaling Channel) in Stable State (T200 Expired)	B1275071420.C127 8072420	Sum	hucsvbh, huctvbh
ERR_IND_T20	ACCUMULATION	INT8	M3100A:Call	B1275071420.C127	Sum	hucsvbh,

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0_EXP_TCHF _TRAF	TION		Drops due to ERR IND Received on TCHF (Traffic Channel) in Stable State (T200 Expired)	8072426		huctvbh
ERR_IND_T20 0_EXP_TCHH _SIG	ACCUMULA TION	INT8	M3500A:Call Drops due to ERR IND Received on TCHH (Signaling Channel) in Stable State (T200 Expired)	B1275071420.C127 8072423	Sum	hucsvbh, huctvbh
ERR_IND_T20 0_EXP_TCHH _TRAF	ACCUMULA TION	INT8	M3200A:Call Drops due to ERR IND Received on TCHH (Traffic Channel) in Stable State (T200 Expired)	B1275071420.C127 8072429	Sum	hucsvbh, huctvbh
ERR_IND_T20 0_EXP_TRAF _OLCELL	ACCUMULA TION	INT8	M3320A:Call Drops Due to ERR IND Received from the Traffic Channel on the TRX in the Overlaid Subcell in Stable State (T200 Expired)	B1275071420.C127 8072565	Sum	hucsvbh, huctvbh
ERR_IND_T20 0_EXP_TRAF _ULCELL	ACCUMULA TION	INT8	M3310A:Call Drops Due to the ERR IND Received from the Traffic Channel on the TRX in the Underlaid	B1275071420.C127 8072534	Sum	hucsvbh, huctvbh

			Subcell in Stable State (T200 Expired)			
ERR_IND_UN SOL_DM_RES P_SD	ACCUMULATION	INT8	M3000B:Call Drops due to ERR IND Received on SDCCH in Stable State (UNSOL DM Response)	B1275071420.C127 8072418	Sum	hucsvbh, huctvbh
ERR_IND_UN SOL_DM_RES P_SIG_OLCEL L	ACCUMULATION	INT8	M3620B:Call Drops Due to ERR IND Received from the Signaling Channel on the TRX in the Overlaid Subcell in Stable State (UNSOL DM Response)	B1275071420.C127 8072563	Sum	hucsvbh, huctvbh
ERR_IND_UN SOL_DM_RES P_SIG_ULCEL L	ACCUMULATION	INT8	M3610B:Call Drops Due to the ERR IND Received from the Signaling Channel on the TRX in the Underlaid Subcell in Stable State (UNSOL DM Response)	B1275071420.C127 8072532	Sum	hucsvbh, huctvbh
ERR_IND_UN SOL_DM_RES P_TCHF_SIG	ACCUMULATION	INT8	M3400B:Call Drops due to ERR IND Received on	B1275071420.C127 8072421	Sum	hucsvbh, huctvbh

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			TCHF (Signaling Channel) in Stable State (UNSOL DM Response)			
ERR_IND_UN SOL_DM_RES P_TCHF_TRA F	ACCUMULA TION	INT8	M3100B:Call Drops due to ERR IND Received on TCHF (Traffic Channel) in Stable State (UNSOL DM Response)	B1275071420.C127 8072427	Sum	hucsvbh, huctvbh
ERR_IND_UN SOL_DM_RES P_TCHH_SIG	ACCUMULA TION	INT8	M3500B:Call Drops due to ERR IND Received on TCHH (Signaling Channel) in Stable State (UNSOL DM Response)	B1275071420.C127 8072424	Sum	hucsvbh, huctvbh
ERR_IND_UN SOL_DM_RES P_TCHH_TRA F	ACCUMULA TION	INT8	M3200B:Call Drops due to ERR IND Received on TCHH (Traffic Channel) in Stable State (UNSOL DM Response)	B1275071420.C127 8072430	Sum	hucsvbh, huctvbh
ERR_IND_UN SOL_DM_RES P_TRAF_OLC ELL	ACCUMULA TION	INT8	M3320B:Call Drops Due to ERR IND Received from the Traffic Channel on the TRX in the Overlaid Subcell in	B1275071420.C127 8072566	Sum	hucsvbh, huctvbh

			Stable State (UNSOL DM Response)			
ERR_IND_UN SOL_DM_RES P_TRAFF_ULC ELL	ACCUMULA TION	INT8	M3310B:Call Drops Due to the ERR IND Received from the Traffic Channel on the TRX in the Underlaid Subcell in Stable State (UNSOL DM Response)	B1275071420.C127 8072535	Sum	hucsvbh, huctvbh

**7.9.17 Cell.Huawei.GSM.Call\_drop\_due\_to\_forced\_ho**

Call drop due to forced handover

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CALL_DROPS _FORCE_HO_ SD	ACCUMULA TION	INT8	M305:Call Drops due to Forced Handover (SDCCH)	B1275071420.C127 8072477	Sum	hucsvbh, huctvbh
CALL_DROPS _FORCE_HO_ TCHF_SIG	ACCUMULA TION	INT8	M345:Call Drops due to Forced Handover (TCHF) (Signaling Channel)	B1275071420.C127 8072478	Sum	hucsvbh, huctvbh
CALL_DROPS _FORCE_HO_ TCHF_TRAFF	ACCUMULA TION	INT8	M315:Call Drops due to Forced Handover	B1275071420.C127 8072479	Sum	hucsvbh, huctvbh

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			(TCHF) (Traffic Channel)			
CALL_DROPS_FORCE_HO_TCHH_SIG	ACCUMULATION	INT8	M355:Call Drops due to Forced Handover (TCHH) (Signaling Channel)	B1275071420.C1278072480	Sum	hucsvbh, huctvbh
CALL_DROPS_FORCE_HO_TCHH_TRAF	ACCUMULATION	INT8	M325:Call Drops due to Forced Handover (TCHH) (Traffic Channel)	B1275071420.C1278072481	Sum	hucsvbh, huctvbh

### 7.9.18 Cell.Huawei.GSM.Call\_drop\_due\_to\_no\_MRs

Call drop due to no MRs

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CALL_DROPS_NO_MR_SD	ACCUMULATION	INT8	M302:Call Drops due to No MRs from MS for a Long Time (SDCCH)	B1275071420.C1278072462	Sum	hucsvbh, huctvbh
CALL_DROPS_NO_MR_SIG_OLCELL	ACCUMULATION	INT8	M3623A:Call Drops Due to No MR from the MS on the Signaling Channel on the TRX in the Overlaid Subcell	B1275071420.C1278072580	Sum	hucsvbh, huctvbh
CALL_DROPS_NO_MR_SIG_ULCELL	ACCUMULATION	INT8	M3613A:Call Drops Due to No MR from the MS on the	B1275071420.C1278072549	Sum	hucsvbh, huctvbh

			Signaling Channel on the TRX in the Underlaid Subcell			
CALL_DROPS_NO_MR_TC_HF_SIG	ACCUMULATION	INT8	M342:Call Drops due to No MRs from MS for a Long Time (TCHF) (Signaling Channel)	B1275071420.C1278072463	Sum	hucsvbh, huctvbh
CALL_DROPS_NO_MR_TC_HF_TRAF	ACCUMULATION	INT8	M312:Call Drops due to No MRs from MS for a Long Time (TCHF) (Traffic Channel)	B1275071420.C1278072464	Sum	hucsvbh, huctvbh
CALL_DROPS_NO_MR_TC_HH_SIG	ACCUMULATION	INT8	M352:Call Drops due to No MRs from MS for a Long Time (TCHH) (Signaling Channel)	B1275071420.C1278072465	Sum	hucsvbh, huctvbh
CALL_DROPS_NO_MR_TC_HH_TRAF	ACCUMULATION	INT8	M322:Call Drops due to No MRs from MS for a Long Time (TCHH) (Traffic Channel)	B1275071420.C1278072466	Sum	hucsvbh, huctvbh
CALL_DROPS_NO_MR_TRAF_OLCELL	ACCUMULATION	INT8	M3323B:Call Drops Due to No MR from the MS on the Traffic Channel on the TRX in	B1275071420.C1278072581	Sum	hucsvbh, huctvbh

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			the Overlaid Subcell			
CALL_DROPS_NO_MR_TRAF_ULCELL	ACCUMULATION	INT8	M3313B:Call Drops Due to No MR from the MS on the Traffic Channel on the TRX in the Underlaid Subcell	B1275071420.C1278072550	Sum	hucsvbh, huctvbh
SIG_CALL_DROPS_NO_MR	ACCUMULATION	INT8	CM362:Call Drops due to No MRs from MS for a Long Time (Signaling Channe)	B1275071420.C1278072508	Sum	hucsvbh, huctvbh
TRAF_CH_CALL_DROPS_NO_MR	ACCUMULATION	INT8	CM332:Call Drops due to No MRs from MS for a Long Time (Traffic Channel)	B1275071420.C1278072516	Sum	hucsvbh, huctvbh

### 7.9.19 Cell.Huawei.GSM.Call\_drop\_due\_to\_rel\_ind

Call drop due to release indication

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CALL_DROPS_REL_IND_SD	ACCUMULATION	INT8	M3002:Call Drops due to REL IND Received on SDCCH	B1275071420.C1278072457	Sum	hucsvbh, huctvbh
CALL_DROPS_REL_IND_TCHF_SIG	ACCUMULATION	INT8	M3402:Call Drops due to REL IND Received on TCHF (Signaling Channel)	B1275071420.C1278072458	Sum	hucsvbh, huctvbh

CALL_DROPS_REL_IND_TCHF_TRAF	ACCUMULATION	INT8	M3102:Call Drops due to REL IND Received on TCHF (Traffic Channel)	B1275071420.C1278072459	Sum	hucsvbh, huctvbh
CALL_DROPS_REL_IND_TCHH_SIG	ACCUMULATION	INT8	M3502:Call Drops due to REL IND Received on TCHH (Signaling Channel)	B1275071420.C1278072460	Sum	hucsvbh, huctvbh
CALL_DROPS_REL_IND_TCHH_TRAF	ACCUMULATION	INT8	M3202:Call Drops due to REL IND Received on TCHH (Traffic Channel)	B1275071420.C1278072461	Sum	hucsvbh, huctvbh

**7.9.20 Cell.Huawei.GSM.Call\_drop\_due\_to\_res\_check**

call drop due to resource check

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CALL_DROP_S_RES_CHECK_SD	ACCUMULATION	INTEGER	M306:Call Drops due to Resource Check (SDCCH)	B1275071420.C1278072482	Sum	hucsvbh, huctvbh
CALL_DROP_S_RES_CHECK_TCHF_SIG	ACCUMULATION	INTEGER	M346:Call Drops due to Resource Check (TCHF) (Signaling Channel)	B1275071420.C1278072483	Sum	hucsvbh, huctvbh

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CALL_DROP S_RES_CHEC K_TCHF_TR AF	ACCUMULA TION	INTEG ER	M316:Call Drops due to Resource Check (TCHF) (Traffic Channel)	B1275071420.C127 8072485	Sum	hucsvbh, huctvbh
CALL_DROP S_RES_CHEC K_TCHH_SIG	ACCUMULA TION	INTEG ER	M356:Call Drops due to Resource Check (TCHH) (Signaling Channel)	B1275071420.C127 8072484	Sum	hucsvbh, huctvbh
CALL_DROP S_RES_CHEC K_TCHH_TR AF	ACCUMULA TION	INTEG ER	M326:Call Drops due to Resource Check (TCHH) (Traffic Channel)	B1275071420.C127 8072486	Sum	hucsvbh, huctvbh

### 7.9.21 Cell.Huawei.GSM.Call\_drop\_dueto\_connfail\_ULay\_olay

Call drop due to connection failure underlay/overlay

KPI	Type	Data Type	Description	Derivation	Default Aggregat or	Other Aggrega tors
CONFAIL_rxd _sig_TRX_ulai d_sC_SS_HO_a cc	ACCUMULA TION	INT8	M3611B :Call Drops Due to the CONN FAIL Received from the Signaling Channel on the TRX in the Underlaid scell in Stable State (HO Access Failure)	B1275071420.C127 8072538	Sum	hucsvbh, huctvbh
CONFAIL_rxd _sig_TRX_ulai d_sC_SS_RL	ACCUMULA TION	INT8	M3611A :Call Drops Due to the CONN FAIL Received from the	B1275071420.C127 8072537	Sum	hucsvbh, huctvbh

			Signaling Channel on the TRX in the Underlaid scell in Stable State (Radio Link Failure)			
CONFAIL_rxd_TCH_TRX_ul aid_sC_SS_HO_acc	ACCUMULATION	INT8	M3311B :Call Drops Due to the CONN FAIL Received from the Traffic Channel on the TRX in the Underlaid scell in Stable State (HO Access Failure)	B1275071420.C127 8072543	Sum	hucsvbh, huctvbh
HO_ACCESS_FAIL_TRAF_OL	ACCUMULATION	INT8	M3321B:Call Drops Due to CONN FAIL Received from the Traffic Channel on the TRX in the Overlaid Subcell in Stable State (HO Access Failure)	B1275071420.C127 8072574	Sum	hucsvbh, huctvbh
HO_ACCESS_FAIL_SIG_OLCELL	ACCUMULATION	INT8	M3621B:Call Drops Due to CONN FAIL Received from the Signaling Channel on the TRX in the Overlaid Subcell in Stable State	B1275071420.C127 8072569	Sum	hucsvbh, huctvbh

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			(HO Access Failure)			
HO_ACCESS_FAIL_TRAF_OLCELL	ACCUMULATION	INT8	M3321A:Call Drops Due to CONN FAIL Received from the Traffic Channel on the TRX in the Overlaid Subcell in Stable State (Radio Link Failure)	B1275071420.C1278072573	Sum	hucsvbh, huctvbh
OM_INTERV_SIG_OLCELL	ACCUMULATION	INT8	M3621C:Call Drops Due to CONN FAIL Received from the Signaling Channel on the TRX in the Overlaid Subcell in Stable State (OM Intervention)	B1275071420.C1278072570	Sum	hucsvbh, huctvbh
OM_INTERV_SIG_ULCELL	ACCUMULATION	INT8	M3611C:Call Drops Due to the CONN FAIL Received from the Signaling Channel on the TRX in the Underlaid Subcell in Stable State (OM Intervention)	B1275071420.C1278072539	Sum	hucsvbh, huctvbh
OM_INTERV_TRAF_OLCELL	ACCUMULATION	INT8	M3321C:Call Drops Due to CONN FAIL Received from	B1275071420.C1278072575	Sum	hucsvbh, huctvbh

			the Traffic Channel on the TRX in the Overlaid Subcell in Stable State (OM Intervention)			
OM_INTERV_ TRAF_ULCEL L	ACCUMULA TION	INT8	M3311C:Call Drops Due to the CONN FAIL Received from the Traffic Channel on the TRX in the Underlaid Subcell in Stable State (OM Intervention)	B1275071420.C127 8072544	Sum	hucsvbh, huctvbh
OTHER_SIG_ OLCELL	ACCUMULA TION	INT8	M3621E:Call Drops Due to CONN FAIL Received from the Signaling Channel on the TRX in the Overlaid Subcell in Stable State (Others)	B1275071420.C127 8072572	Sum	hucsvbh, huctvbh
OTHER_SIG_ ULCEL	ACCUMULA TION	INT8	M3611E:Call Drops Due to the CONN FAIL Received from the Signaling Channel on the TRX in the Underlaid	B1275071420.C127 8072541	Sum	hucsvbh, huctvbh

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			Subcell in Stable State (Others)			
OTHER_TRAFFIC_OLCELL	ACCUMULATION	INT8	M3321E:Call Drops Due to CONN FAIL Received from the Traffic Channel on the TRX in the Overlaid Subcell in Stable State (Others)	B1275071420.C1278072577	Sum	hucsvbh, huctvbh
OTHER_TRAFFIC_ULCELL	ACCUMULATION	INT8	M3311E:Call Drops Due to the CONN FAIL Received from the Traffic Channel on the TRX in the Underlaid Subcell in Stable State (Others)	B1275071420.C1278072546	Sum	hucsvbh, huctvbh
RADIO_RESOURCE_NO_SIG_OLCELL	ACCUMULATION	INT8	M3621D:Call Drops Due to CONN FAIL Received from the Signaling Channel on the TRX in the Overlaid Subcell in Stable State (Radio Resource Not Available)	B1275071420.C1278072571	Sum	hucsvbh, huctvbh
RADIO_RESOURCE_NO_SIG_ULCELL	ACCUMULATION	INT8	M3611D:Call Drops Due to the CONN FAIL Received from the	B1275071420.C1278072540	Sum	hucsvbh, huctvbh

			Signaling Channel on the TRX in the Underlaid Subcell in Stable State (Radio Resource Not Available)			
RADIO_RES_NO_TRAF_OLCELL	ACCUMULATION	INT8	M3321D:Call Drops Due to CONN FAIL Received from the Traffic Channel on the TRX in the Overlaid Subcell in Stable State (Radio Resource Not Available)	B1275071420.C1278072576	Sum	hucsvbh, huctvbh
RADIO_RES_NO_TRAF_ULCELL	ACCUMULATION	INT8	M3311D:Call Drops Due to the CONN FAIL Received from the Traffic Channel on the TRX in the Underlaid Subcell in Stable State (Radio Resource Not Available)	B1275071420.C1278072545	Sum	hucsvbh, huctvbh
RL_FAIL_SIG_OLCELL	ACCUMULATION	INT8	M3621A:Call Drops Due to CONN FAIL Received from the Signaling	B1275071420.C1278072568	Sum	hucsvbh, huctvbh

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			Channel on the TRX in the Overlaid Subcell in Stable State (Radio Link Failure)			
RL_FAIL_TRAFF_ULCELL	ACCUMULATION	INT8	M3311A:Call Drops Due to the CONN FAIL Received from the Traffic Channel on the TRX in the Underlaid Subcell in Stable State (Radio Link Failure)	B1275071420.C1278072542	Sum	hucsvbh, huctvbh

### 7.9.22 Cell.Huawei.GSM.Call\_drop\_miscellaneous

Call drop miscellaneous reasons

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CALL_DROPS_FORCE_HO_SIG_OLCELL	ACCUMULATION	INT8	M3624A:Call Drops Due to Forced Handover on the TRX in the Overlaid Subcell (Signaling Channel)	B1275071420.C1278072586	Sum	hucsvbh, huctvbh
CALL_DROPS_RES_CHECK	ACCUMULATION	INTEGER	CM396:Call Drops due to Resource Check	B1275071420.C1278072522	Sum	hucsvbh, huctvbh
EQUIP_FAIL_SIG_OLCELL	ACCUMULATION	INT8	M3623E:Call Drops Due to TRX Failure in	B1275071420.C1278072584	Sum	hucsvbh, huctvbh

			the Overlaid Subcell (Signaling Channel)			
EQUIP_FAIL_SIG_ULCELL	ACCUMULATION	INT8	M3613E:Call Drops Due to TRX Failure in the Underlaid Subcell (Signaling Channel)	B1275071420.C1278072553	Sum	hucsvbh, huctvbh
EQUIP_FAIL_TRAF_OLCELL	ACCUMULATION	INT8	M3323F:Call Drops Due to TRX Failure in the Overlaid Subcell (Traffic Channel)	B1275071420.C1278072585	Sum	hucsvbh, huctvbh
EQUIP_FAIL_TRAF_ULCELL	ACCUMULATION	INT8	M3313F:Call Drops Due to TRX Failure in the Underlaid Subcell (Traffic Channel)	B1275071420.C1278072554	Sum	hucsvbh, huctvbh
FORCE_HO_TRAF_OLCELL	ACCUMULATION	INT8	M3324B:Call Drops Due to Forced Handover on the TRX in the Overlaid Subcell (Traffic Channel)	B1275071420.C1278072587	Sum	hucsvbh, huctvbh
FORCE_HO_TRAF_ULCELL	ACCUMULATION	INT8	M3314B:Call Drops Due to Forced Handover on the TRX in the Underlaid Subcell (Traffic	B1275071420.C1278072556	Sum	hucsvbh, huctvbh

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			Channel)			
FORCED_HO_HO_TRX_UL_AID_SC_SIG	ACCUMULATION	INT8	M3614A :Call Drops Due to Forced Handover on the TRX in the Underlaid scell (Signaling Channel)	B1275071420.C1278072555	Sum	hucsvbh, huctvbh
RES_CHECK_SIG_OLCELL	ACCUMULATION	INT8	M3624C:Call Drops Due to Resource Check on the TRX in the Overlaid Subcell (Signaling Channel)	B1275071420.C1278072588	Sum	hucsvbh, huctvbh
RES_CHECK_SIG_ULCELL	ACCUMULATION	INT8	M3614C:Call Drops Due to Resource Check on the TRX in the Underlaid Subcell (Signaling Channel)	B1275071420.C1278072557	Sum	hucsvbh, huctvbh
RES_CHECK_TRAF_OLCELL	ACCUMULATION	INT8	M3324D:Call Drops Due to Resource Check on the TRX in the Overlaid Subcell (Traffic Channel)	B1275071420.C1278072589	Sum	hucsvbh, huctvbh
RES_CHECK_TRAF_ULCELL	ACCUMULATION	INT8	M3314D:Call Drops Due to Resource Check on the TRX in the Underlaid Subcell (Traffic Channel)	B1275071420.C1278072558	Sum	hucsvbh, huctvbh

SIG_CALL_DROPS_EQUIP_FAIL	ACCUMULATION	INT8	CM364:Call Drops due to Equipment Failure (Signaling Channel)	B1275071420.C12 78072510	Sum	hucsvbh, huctvbh
SIG_CALL_DROPS_FORCE_HO	ACCUMULATION	INT8	CM365:Call Drops due to Forced Handover (Signaling Channel)	B1275071420.C12 78072511	Sum	hucsvbh, huctvbh
TRAF_CH_CALL_DROPS_EQUIP_FAIL	ACCUMULATION	INT8	CM334:Call Drops due to Equipment Failure (Traffic Channel)	B1275071420.C12 78072518	Sum	hucsvbh, huctvbh
TRAF_CH_CALL_DROPS_FORCE_HO	ACCUMULATION	INT8	CM335:Call Drops due to Forced Handover (Traffic Channel)	B1275071420.C12 78072519	Sum	hucsvbh, huctvbh

### 7.9.23 Cell.Huawei.GSM.Call\_drop\_overview

Call drop overview per cell

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CALL_TCH_SUCC_OVERLAY	ACCUMULATION	INT8	M338a:Successful TCH Seizures on the TRX in the OverLaid Subcell	B1275071420.C12 78072626	Sum	hucsvbh, huctvbh
CALL_TCH_S	ACCUMULATION	INT8	M338:Successf	B1275071420.C12	Sum	hucsvbh,

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UCC_UNDERLAY	TION		ul TCH Seizures on the TRX in the Underlaid Subcell	78072625		huctvbh
CONN_TCHF_TRAF	ACCUMULATION	INT8	M318:Successful Connections (TCHF) (Traffic Channel)	B1275071420.C12 78072489	Sum	hucsvbh, huctvbh
CONN_TCHH_TRAF	ACCUMULATION	INT8	M328:Successful Connections (TCHH) (Traffic Channel)	B1275071420.C12 78072490	Sum	hucsvbh, huctvbh
LOOP_RESTORE_FAIL_DROPS_TCHF	ACCUMULATION	INT8	RM3174:Call Drops Due to Failures to Return to Normal Call from Loopback (TCHF)	B1275071420.C12 78072640	Sum	hucsvbh, huctvbh
LOOP_RESTORE_FAIL_DROPS_TCHH	ACCUMULATION	INT8	RM3274:Call Drops Due to Failures to Return to Normal Call from Loopback (TCHH)	B1275071420.C12 78072639	Sum	hucsvbh, huctvbh
LOOP_START_FAIL_DROPS_TCHF	ACCUMULATION	INT8	RM3173:Call Drops Due to Loopback Start Failure(TCHF)	B1275071420.C12 78072638	Sum	hucsvbh, huctvbh
LOOP_START_FAIL_DROPS_TCHH	ACCUMULATION	INT8	RM3273:Call Drops Due to Loopback Start Failure(TCHH)	B1275071420.C12 78072637	Sum	hucsvbh, huctvbh
RATE_TCH_CALL_DROP_EXCLUDE_HOLD	INTENSITY	FLOAT	ZTR304A:Call Drop Ratio on TCH per cell(Excluding	B1275071420.C12 78072595	Average	Average, hucsvbh, huctvbh, Maximu

			Handover)			m, Minimu m, Sum
RATE_TCH_C ALL_DROP_IN CLUDE_HO	INTENSITY	FLOA T	ZTR304:Call Drop Ratio on TCH per cell(including Handover)	B1275071420.C12 78072594	Average	Average, hucsvbh, huctvbh, Maximu m, Minimu m, Sum
RATE_TCH_C ALL_DROP_O VERLAY	INTENSITY	FLOA T	RM330a:Call Drop Ratio on TCH on the TRX in the OverLaid Subcell	B1275071420.C12 78072628	Average	Average, hucsvbh, huctvbh, Maximu m, Minimu m, Sum
RATE_TCH_C ALL_DROP_U NDERLAY	INTENSITY	FLOA T	RM330:Call Drop Ratio on TCH on the TRX in the Underlaid Subcell	B1275071420.C12 78072627	Average	Average, hucsvbh, huctvbh, Maximu m, Minimu m, Sum
RATE_TCHF_ CALL_DROP	INTENSITY	FLOA T	RM317:Call Drop Ratio on TCHF per cell	B1275071420.C12 78072624	Average	Average, hucsvbh, huctvbh, Maximu m, Minimu m, Sum
RATE_TCHH_ CALL_DROP	INTENSITY	FLOA T	RM327:Call Drop Ratio on TCHH per cell	B1275071420.C12 78072623	Average	Average, hucsvbh, huctvbh, Maximu m, Minimu m, Sum

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SD_CALL_DROPS	ACCUMULATION	INT8	CM30:Call Drops on SDCCH	B1275071420.C12 78072520	Sum	hucsvbh, huctvbh
SD_CALL_DROP	INTENSITY	FLOAT	ZTR104C:Call Drop Rate on SDCCH	B1275071420.C12 78072593	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
SD_UM_CALL_DROPS	ACCUMULATION	INT8	CM30A:Call Drops on Radio Interface (SDCCH)	B1275071420.C12 78072521	Sum	hucsvbh, huctvbh
SIG_CALL_DROPS	ACCUMULATION	INT8	CM36:Call Drops on Signaling Channel	B1275071420.C12 78072501	Sum	hucsvbh, huctvbh
SIG_CH_CALL_DROPS_TCH	ACCUMULATION	INT8	RH3331:Call Drops on Signal Channel (TCH)	B1275071420.C12 78072643	Sum	hucsvbh, huctvbh
SIG_HO_STATE_CALL_DROPS	ACCUMULATION	INT8	CM361:Call Drops on Radio Interface in Handover State (Signaling Channel)	B1275071420.C12 78072500	Sum	hucsvbh, huctvbh
SIG_SS_CALL_DROP_TCH_CONNFAIL	ACCUMULATION	INT8	CM3605:Call Drops on Signaling Channel in Stable State (Connection Failure)(TCH)	B1275071420.C12 78072631	Sum	hucsvbh, huctvbh
SIG_SS_CALL_DROP_TCH_ERRIND	ACCUMULATION	INT8	CM3603:Call Drops on Signaling Channel in Stable State (Error	B1275071420.C12 78072629	Sum	hucsvbh, huctvbh

			Indication) (TCH)			
SIG_SS_CALL_DROP_TCH_RELIND	ACCUMULATION	INT8	CM3604:Call Drops on Signaling Channel in Stable State (Release Indication) (TCH)	B1275071420.C12 78072630	Sum	hucsvbh, huctvbh
SIG_SS_CALL_TCH_DROP	ACCUMULATION	INT8	CM3606:Call Drops on Radio Interface in Stable State (TCH Qua Signaling Channel)	B1275071420.C12 78072632	Sum	hucsvbh, huctvbh
SIG_STATIC_STATE_CALL_DROPS	ACCUMULATION	INT8	CM360:Call Drops on Radio Interface in Stable State (Signaling Channel)	B1275071420.C12 78072499	Sum	hucsvbh, huctvbh
SIG_STATIC_STATE_CONN_FAIL	ACCUMULATION	INT8	CM3601:Call Drops on Signaling Channel in Stable State (Connection Failure)	B1275071420.C12 78072505	Sum	hucsvbh, huctvbh
SIG_STATIC_STATE_ERR_IND	ACCUMULATION	INT8	CM3600:Call Drops on Signaling Channel in Stable State (Error Indication)	B1275071420.C12 78072504	Sum	hucsvbh, huctvbh
SIG_STATIC_S	ACCUMULATION	INT8	CM360A:Call	B1275071420.C12	Sum	hucsvbh,

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TATE_OLCELL	TION		Drops on the Signaling Channels on the TRX in the Overlaid Subcell	78072591		huctvbh
SIG_STATIC_STATE_REL_IND	ACCUMULATION	INT8	CM3602:Call Drops on Signaling Channel in Stable State (Release Indication)	B1275071420.C12 78072506	Sum	hucsvbh, huctvbh
SIG_STATIC_STATE_ULCELL	ACCUMULATION	INT8	CM361A:Call Drops on the Signaling Channels on the TRX in the Underlaid Subcell	B1275071420.C12 78072560	Sum	hucsvbh, huctvbh
SIG_UM_CALL_DROPS	ACCUMULATION	INT8	CM36C:Call Drops on Radio Interface (Signaling Channel)	B1275071420.C12 78072507	Sum	hucsvbh, huctvbh
SUCC_CONN	ACCUMULATION	INT8	CM338:Successful Connections	B1275071420.C12 78072524	Sum	hucsvbh, huctvbh
TCH_CALL_DROPS_HO_FAIL_TCHF	ACCUMULATION	INT8	RM3172:Call Drops on Radio Interface in Handover State (Traffic Channel) (TCHF)	B1275071420.C12 78072636	Sum	hucsvbh, huctvbh
TCH_CALL_DROPS_HO_FAIL_TCHH	ACCUMULATION	INT8	RM3272:Call Drops on Radio Interface in Handover State (Traffic Channel) (TCHH)	B1275071420.C12 78072635	Sum	hucsvbh, huctvbh

TCH_CALL_DROPS_STAB_ST_TCHF	ACCUMULATION	INT8	RM3171:Call Drops on Radio Interface in Stable State (Traffic Channel) (TCHF)	B1275071420.C12 78072634	Sum	hucsvbh, huctvbh
TCH_CALL_DROPS_STAB_ST_TCHH	ACCUMULATION	INT8	RM3271:Call Drops on Radio Interface in Stable State (Traffic Channel) (TCHH)	B1275071420.C12 78072633	Sum	hucsvbh, huctvbh
TCH_RD_DROP	INTENSITY	FLOAT	RM333:Radio Drop Rate of TCH	B1275071420.C12 78072596	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
TRAF_CH_CALL_DROPS_HO_FAIL	ACCUMULATION	INT8	CM331:Call Drops on Radio Interface in Handover State (Traffic Channel)	B1275071420.C12 78072503	Sum	hucsvbh, huctvbh
TRAF_CH_CALL_DROPS_TCHF	ACCUMULATION	INT8	RM3175:Call Drops on Traffic Channel (TCHF)	B1275071420.C12 78072642	Sum	hucsvbh, huctvbh
TRAF_CH_CALL_DROPS_TCHH	ACCUMULATION	INT8	RM3275:Call Drops on Traffic Channel (TCHH)	B1275071420.C12 78072641	Sum	hucsvbh, huctvbh
TRAF_CH_CALL_DROPS	ACCUMULATION	INT8	CM33:Call Drops on Traffic Channel	B1275071420.C12 78072498	Sum	hucsvbh, huctvbh

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TRAF_CH_IN_STABLE_STATE	ACCUMULATION	INT8	CM330:Call Drops on Radio Interface in Stable State (Traffic Channel)	B1275071420.C12 78072502	Sum	hucsvbh, huctvbh
TRAF_CH_STATIC_STATE_ERR_IND	ACCUMULATION	INT8	CM3300:Call Drops on Traffic Channel in Stable State (Error Indication)	B1275071420.C12 78072514	Sum	hucsvbh, huctvbh
TRAF_CH_STATIC_STATE_OLCELL	ACCUMULATION	INT8	CM330B:Call Drops on the Traffic Channels on the TRX in the Overlaid Subcell	B1275071420.C12 78072592	Sum	hucsvbh, huctvbh
TRAF_CH_STATIC_STATE_REL_IND	ACCUMULATION	INT8	CM3302:Call Drops on Traffic Channel in Stable State (Release Indication)	B1275071420.C12 78072515	Sum	hucsvbh, huctvbh
TRAF_CH_STATIC_STATE_ULCELL	ACCUMULATION	INT8	CM330A:Call Drops on the Traffic Channels on the TRX in the Underlaid Subcell	B1275071420.C12 78072561	Sum	hucsvbh, huctvbh
TRAF_CH_UM_CALL_DROPS	ACCUMULATION	INT8	CM33C:Call Drops on Radio Interface (Traffic Channel)	B1275071420.C12 78072512	Sum	hucsvbh, huctvbh
TRAF_CHAN_STATIC_STATE_CONN_FAIL	ACCUMULATION	INT8	CM3301:Call Drops on Traffic Channel in Stable State (Connection	B1275071420.C12 78072513	Sum	hucsvbh, huctvbh

			Failure)		
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### 7.9.24 Cell.Huawei.GSM.Call\_Duration\_per\_Cell

Call Duration Measurement per Cell

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
Acc_Call_Access_Dur	ACCUMULATION	INTEGER	A3250A:Accumulated Call Access Duration	B1290823468.C1282429851	Sum	
Acc_Call_Setup_Dur	ACCUMULATION	INTEGER	A3251A:Accumulated Call Setup Duration	B1290823468.C1282429852	Sum	
Avg_Call_Access_Dur	INTENSITY	FLOAT	AA3250:Average Call Access Duration	B1290823468.C1282429856	Average	Sum, Minimum, Maximum
Avg_Call_Setup_Dur	INTENSITY	FLOAT	AA3251:Average Call Setup Duration	B1290823468.C1282429855	Average	Sum, Minimum, Maximum
SamplTimes_Call_Access_Dur	ACCUMULATION	INTEGER	A3250B:Number of Sampling Times of Call Access Duration	B1290823468.C1282429853	Sum	
SamplTimes_Call_Setup_Dur	ACCUMULATION	INTEGER	A3251B:Number of Sampling Times of Call Setup Duration	B1290823468.C1282429854	Sum	

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### 7.9.25 Cell.Huawei.GSM.Cell\_broadcast\_queue

Cell broadcast queue

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CB_CBCH_PERC_LOAD_AVG	INTENSITY	INT8	L0489:Average CBCH Message Queue Usage	B1275070618.C1277270419	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CB_CBCH_PERC_LOAD_MAX	INTENSITY	INT8	L0488:Maximum CBCH Message Queue Usage	B1275070618.C1277270418	Constant	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CB_CBCH_PERC_LOAD	INTENSITY	INT8	L0487:CBCH Message Queue Usage	B1275070618.C1277270417	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum

### 7.9.26 Cell.Huawei.GSM.Cell\_paging\_capability

cell paging capability

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
PACCH_CS_PAGING_REQ	ACCUMULATION	INT8	A9603:Number of Circuit Paging Requests Sent on PACCH	B1275072519.C1279171419	Sum	hucsvbh, huctvbh
PKT_NOTIFY_TX_DCCH	ACCUMULATION	INT8	A9607:Number of Packet Notification	B1275072519.C1279171423	Sum	hucsvbh, huctvbh

			Sent on DCCH			
PPCH_CS_PAGING_REQ	ACCUMULATION	INT8	A9605: Number of Circuit Paging Requests Sent on PPCH	B1275072519.C127 9171421	Sum	hucsvbh, huctvbh
PPCH_PS_PAGING_REQ	ACCUMULATION	INT8	A9604: Number of Packet Paging Requests Sent on PPCH	B1275072519.C127 9171420	Sum	hucsvbh, huctvbh
PPCH_QUEUE_DISCARD_PAGING_MSG	ACCUMULATION	INT8	A9606: Number of Discarded Paging Messages on PPCH	B1275072519.C127 9171422	Sum	hucsvbh, huctvbh
RX_GB_CS_PAGING_REQ	ACCUMULATION	INT8	A9602: Number of Circuit Paging Requests Received from the Gb Interface	B1275072519.C127 9171418	Sum	hucsvbh, huctvbh
RX_GB_PS_PAGING_REQ	ACCUMULATION	INT8	A9601: Number of Packet Paging Requests Received from the Gb Interface	B1275072519.C127 9171417	Sum	hucsvbh, huctvbh

### 7.9.27 Cell.Huawei.GSM.Cell\_state

State of the cell

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
AIDING_BCCH	ACCUMULATION	INT8	R3710:Cell	B1275069419.C12	Sum	hucsvbh,

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AIDING	TION		BCCH Mutual Aids	76071419		huctvbh
AIDING_BCCH RECOVER	ACCUMULATION	INT8	R3711:Recoveries after Cell BCCH Mutual Aids	B1275069419.C12 76071420	Sum	hucsvbh, huctvbh
AIDING_HOPAI DING	ACCUMULATION	INT8	R3720:Cell Baseband Hopping Mutual Aids	B1275069419.C12 76071421	Sum	hucsvbh, huctvbh
AIDING_HOPR ECOVER	ACCUMULATION	INT8	R3721:Recoveries after Cell Baseband Hopping Mutual Aids	B1275069419.C12 76071422	Sum	hucsvbh, huctvbh
DUR_OF_CELL _TURNING_OF F	ACCUMULATION	INT8	R3722:Duratio n of Cell Turning off	B1275069419.C12 82411375	Sum	hucsvbh, huctvbh
RST_FAIL	ACCUMULATION	INT8	R3702:Failed Cell Initializations	B1275069419.C12 76071418	Sum	hucsvbh, huctvbh
RST_SUCC	ACCUMULATION	INT8	R3701:Success ful Cell Initializations	B1275069419.C12 76071417	Sum	hucsvbh, huctvbh
SERV_NORM	ACCUMULATION	INT8	CR373:Cell In-Service Duration	B1275069419.C12 76071425	Sum	hucsvbh, huctvbh
SERV_OOS	ACCUMULATION	INT8	R373:Cell Out-of-Service Duration	B1275069419.C12 76071423	Sum	hucsvbh, huctvbh
SERV_RATE	INTENSITY	FLOA T	TR373:Cell Availability Duration	B1275069419.C12 76071424	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum

### 7.9.28 Cell.Huawei.GSM.Cell\_user\_capability

Measurement of MS multislot capability in a cell and timeslot use situations.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
AVG_MAX_DL_TBF_TS	INTENSITY	FLOAT	AS9340:Average Maximum Number of Downlink TBF Timeslots .	B1275072536.C1279188456 or B1290793482.C1279188456	Average	Sum, Minimum, Maximum
AVG_MAX_UL_TBF_TS	INTENSITY	FLOAT	AS9339:Average Maximum Number of Uplink TBF Timeslots .	B1275072536.C1279188455 or B1290793482.C1279188455	Average	Sum, Minimum, Maximum
AVG_ONLINE_EGPRS_MS	INTENSITY	FLOAT	AS9349:Average Number of Online EGPRS MSs.	B1275072536.C1279188465 or B1290793482.C1279188465	Average	Sum, Minimum, Maximum
AVG_ONLINE_GPRS_MSS	INTENSITY	FLOAT	AS9348:Average Number of Online GPRS MSs .	B1275072536.C1279188464 or B1290793482.C1279188464	Average	Sum, Minimum, Maximum
AVG_UTIL_RATE_DL_TBF_TS	INTENSITY	FLOAT	RS9342:Average Utilization Rate of Downlink TBF Timeslots .	B1275072536.C1279188458 or B1290793482.C1279188458	Average	Sum, Minimum, Maximum
AVG_UTIL_RATE_UL_TBF_TS	INTENSITY	FLOAT	RS9341:Average Utilization Rate of Uplink TBF Timeslots .	B1275072536.C1279188457 or B1290793482.C1279188457	Average	Sum, Minimum, Maximum
MAX_EGPRS	INTENSITY	FLOAT	S9311:Maximum	B1275072536.C127	Average	Sum,

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_DL_TS		T	m Number of EGPRS Downlink Timeslots .	9188427 or B1290793482.C127 9188427		Minimum, Maximum
MAX_EGPRS_UL_TS	INTENSITY	FLOAT	S9308:Maximum Number of EGPRS Uplink Timeslots .	B1275072536.C127 9188424 or B1290793482.C127 9188424	Average	Sum, Minimum, Maximum
MAX_GPRS_DL_TS	INTENSITY	FLOAT	S9305:Maximum Number of GPRS Downlink Timeslots .	B1275072536.C127 9188421 or B1290793482.C127 9188421	Average	Sum, Minimum, Maximum
MAX_GPRS_UL_TS	INTENSITY	FLOAT	S9302:Maximum Number of GPRS Uplink Timeslots .	B1275072536.C127 9188418 or B1290793482.C127 9188418	Average	Sum, Minimum, Maximum
MAX_ONLINE_EGPRS_MS	INTENSITY	INT8	S9347:Maximum Number of Online EGPRS MSs .	B1275072536.C127 9188463 or B1290793482.C127 9188463	Average	Sum, Minimum, Maximum
MAX_ONLINE_GPRS_MSS	INTENSITY	INT8	S9346:Maximum Number of Online GPRS MSs .	B1275072536.C127 9188462 or B1290793482.C127 9188462	Average	Sum, Minimum, Maximum
ONLINE_EGPRS_MSS	ACCUMULATION	INT8	S9345:Number of Online EGPRS MSs .	B1275072536.C127 9188461 or B1290793482.C127 9188461	Sum	
ONLINE_GPRS_MSS	ACCUMULATION	INT8	S9344:Number of Online GPRS MSs .	B1275072536.C127 9188460 or B1290793482.C127 9188460	Sum	
SMPL_TIMES_MS_CAPB_MEAS	ACCUMULATION	INT8	S9301:Sampling Times of User Capability Measurement .	B1275072536.C127 9188417 or B1290793482.C127 9188417	Sum	

SMPL_TIMES _ONLINE_MS S	ACCUMULA TION	INT8	S9343:Sampling Times of Online MSs .	B1275072536.C127 9188459 or B1290793482.C127 9188459	Sum	
TIMES_DL_T S_OCPY_1_1	ACCUMULA TION	INT8	S9328:Times of Downlink Timeslot Occupancy 1/1 .	B1275072536.C127 9188444 or B1290793482.C127 9188444	Sum	
TIMES_DL_T S_OCPY_1_2	ACCUMULA TION	INT8	S9326:Times of Downlink Timeslot Occupancy 1/2 .	B1275072536.C127 9188442 or B1290793482.C127 9188442	Sum	
TIMES_DL_T S_OCPY_1_3	ACCUMULA TION	INT8	S9323:Times of Downlink Timeslot Occupancy 1/3 .	B1275072536.C127 9188439 or B1290793482.C127 9188439	Sum	
TIMES_DL_T S_OCPY_1_4	ACCUMULA TION	INT8	S9319:Times of Downlink Timeslot Occupancy 1/4 .	B1275072536.C127 9188435 or B1290793482.C127 9188435	Sum	
TIMES_DL_T S_OCPY_1_5	ACCUMULA TION	INT8	S9314:Times of Downlink Timeslot Occupancy 1/5 .	B1275072536.C127 9188430 or B1290793482.C127 9188430	Sum	
TIMES_DL_T S_OCPY_2_2	ACCUMULA TION	INT8	S9327:Times of Downlink Timeslot Occupancy 2/2 .	B1275072536.C127 9188443 or B1290793482.C127 9188443	Sum	
TIMES_DL_T S_OCPY_2_3	ACCUMULA TION	INT8	S9324:Times of Downlink Timeslot Occupancy 2/3 .	B1275072536.C127 9188440 or B1290793482.C127 9188440	Sum	
TIMES_DL_T S_OCPY_2_4	ACCUMULA TION	INT8	S9320:Times of Downlink Timeslot Occupancy 2/4 .	B1275072536.C127 9188436 or B1290793482.C127 9188436	Sum	

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TIMES_DL_T S_OCPY_2_5	ACCUMULA TION	INT8	S9315:Times of Downlink Timeslot Occupancy 2/5 .	B1275072536.C127 9188431 or B1290793482.C127 9188431	Sum	
TIMES_DL_T S_OCPY_3_3	ACCUMULA TION	INT8	S9325:Times of Downlink Timeslot Occupancy 3/3 .	B1275072536.C127 9188441 or B1290793482.C127 9188441	Sum	
TIMES_DL_T S_OCPY_3_4	ACCUMULA TION	INT8	S9321:Times of Downlink Timeslot Occupancy 3/4 .	B1275072536.C127 9188437 or B1290793482.C127 9188437	Sum	
TIMES_DL_T S_OCPY_3_5	ACCUMULA TION	INT8	S9316:Times of Downlink Timeslot Occupancy 3/5 .	B1275072536.C127 9188432 or B1290793482.C127 9188432	Sum	
TIMES_DL_T S_OCPY_4_4	ACCUMULA TION	INT8	S9322:Times of Downlink Timeslot Occupancy 4/4 .	B1275072536.C127 9188438 or B1290793482.C127 9188438	Sum	
TIMES_DL_T S_OCPY_4_5	ACCUMULA TION	INT8	S9317:Times of Downlink Timeslot Occupancy 4/5 .	B1275072536.C127 9188433 or B1290793482.C127 9188433	Sum	
TIMES_DL_T S_OCPY_5_5	ACCUMULA TION	INT8	S9318:Times of Downlink Timeslot Occupancy 5/5 .	B1275072536.C127 9188434 or B1290793482.C127 9188434	Sum	
TIMES_UL_T S_OCPY_1_1	ACCUMULA TION	INT8	S9338:Times of Uplink Timeslot Occupancy 1/1 .	B1275072536.C127 9188454 or B1290793482.C127 9188454	Sum	
TIMES_UL_T S_OCPY_1_2	ACCUMULA TION	INT8	S9336:Times of Uplink Timeslot Occupancy 1/2 .	B1275072536.C127 9188452 or B1290793482.C127 9188452	Sum	
TIMES_UL_T S_OCPY_1_3	ACCUMULA TION	INT8	S9333:Times of Uplink Timeslot Occupancy 1/3 .	B1275072536.C127 9188449 or B1290793482.C127 9188449	Sum	

TIMES_UL_T S_OCPY_1_4	ACCUMULA TION	INT8	S9329:Times of Uplink Timeslot Occupancy 1/4 .	B1275072536.C127 9188445 or B1290793482.C127 9188445	Sum	
TIMES_UL_T S_OCPY_2_2	ACCUMULA TION	INT8	S9337:Times of Uplink Timeslot Occupancy 2/2 .	B1275072536.C127 9188453 or B1290793482.C127 9188453	Sum	
TIMES_UL_T S_OCPY_2_3	ACCUMULA TION	INT8	S9334:Times of Uplink Timeslot Occupancy 2/3 .	B1275072536.C127 9188450 or B1290793482.C127 9188450	Sum	
TIMES_UL_T S_OCPY_2_4	ACCUMULA TION	INT8	S9330:Times of Uplink Timeslot Occupancy 2/4 .	B1275072536.C127 9188446 or B1290793482.C127 9188446	Sum	
TIMES_UL_T S_OCPY_3_3	ACCUMULA TION	INT8	S9335:Times of Uplink Timeslot Occupancy 3/3 .	B1275072536.C127 9188451 or B1290793482.C127 9188451	Sum	
TIMES_UL_T S_OCPY_3_4	ACCUMULA TION	INT8	S9331:Times of Uplink Timeslot Occupancy 3/4 .	B1275072536.C127 9188447 or B1290793482.C127 9188447	Sum	
TIMES_UL_T S_OCPY_4_4	ACCUMULA TION	INT8	S9332:Times of Uplink Timeslot Occupancy 4/4 .	B1275072536.C127 9188448 or B1290793482.C127 9188448	Sum	
TOT_SMPL_D L_EGPRS_TB F	ACCUMULA TION	INT8	S9312:Total Number of Sampled Downlink EGPRS TBFs .	B1275072536.C127 9188428 or B1290793482.C127 9188428	Sum	
TOT_SMPL_D L_GPRS_TBF	ACCUMULA TION	INT8	S9306:Total Number of Sampled	B1275072536.C127 9188422 or B1290793482.C127	Sum	

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			Downlink GPRS TBFs .	9188422		
TOT_SMPL_UL_EGPRS_TBF	ACCUMULATION	INT8	S9309:Total Number of Sampled Uplink EGPRS TBFs .	B1275072536.C127 9188425 or B1290793482.C127 9188425	Sum	
TOT_SMPL_UL_GPRS_TBF	ACCUMULATION	INT8	S9303:Total Number of Sampled Uplink GPRS TBFs	B1275072536.C127 9188419 or B1290793482.C127 9188419	Sum	
UTIL_RATE_EGPRS_DL_TS	INTENSITY	FLOAT	S9313:Utilization Rate of EGPRS Downlink Timeslots .	B1275072536.C127 9188429 or B1290793482.C127 9188429	Average	Sum, Minimum, Maximum
UTIL_RATE_EGPRS_UL_TS	INTENSITY	FLOAT	S9310:Utilization Rate of EGPRS Uplink Timeslots .	B1275072536.C127 9188426 or B1290793482.C127 9188426	Average	Sum, Minimum, Maximum
UTIL_RATE_GPRS_DL_TS	INTENSITY	FLOAT	S9307:Utilization Rate of GPRS Downlink Timeslots .	B1275072536.C127 9188423 or B1290793482.C127 9188423	Average	Sum, Minimum, Maximum
UTIL_RATE_GPRS_UL_TS	INTENSITY	FLOAT	S9304:Utilization Rate of GPRS Uplink Timeslots .	B1275072536.C127 9188420 or B1290793482.C127 9188420	Average	Sum, Minimum, Maximum

### 7.9.29 Cell.Huawei.GSM.Channel\_activation\_overview

Channel activation overview

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ASS_CH_ACT_EXP	ACCUMULATION	INT8	CR331C:Channel Activation Timeouts in	B1275071421.C127 8073481	Sum	hucsvbh, huctvbh

			Assignment Procedure			
ASS_CH_ACT_NACK	ACCUMULATION	INT8	CR331B:CHAN ACTIV NACK Messages Sent by BTS in Assignment Procedure	B1275071421.C1278073474	Sum	hucsvbh, huctvbh
ASS_CH_ACT	ACCUMULATION	INT8	CR331A:Channel Activation Attempts in Assignment Procedure	B1275071421.C1278073467	Sum	hucsvbh, huctvbh
CH_ACT_EXP	ACCUMULATION	INT8	CR33C:Channel Activation Timeouts	B1275071421.C1278073479	Sum	hucsvbh, huctvbh
CH_ACT_NACK	ACCUMULATION	INT8	CR33B:CHAN ACTIV NACK Messages Sent by BTS	B1275071421.C1278073472	Sum	hucsvbh, huctvbh
CH_ACT	ACCUMULATION	INT8	CR33A:Channel Activation Attempts	B1275071421.C1278073465	Sum	hucsvbh, huctvbh
CHMD_CH_ACT_EXP	ACCUMULATION	INT8	CR332C:Channel Activation Timeouts in Mode Modify Procedure	B1275071421.C1278073482	Sum	hucsvbh, huctvbh
CHMD_CH_ACT_NACK	ACCUMULATION	INT8	CR332B:CHAN ACTIV NACK Messages Sent by BTS in Mode Modify Procedure	B1275071421.C1278073475	Sum	hucsvbh, huctvbh

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CHMD_CH_ACT	ACCUMULATION	INT8	CR332A:Channel Activation Attempts in Mode Modify Procedure	B1275071421.C1278073468	Sum	hucsvbh, huctvbh
IMM_ASS_CH_ACT_EXP	ACCUMULATION	INT8	CR330C:Channel Activation Timeouts in Immediate Assignment Procedure	B1275071421.C1278073480	Sum	hucsvbh, huctvbh
IMM_ASS_CH_ACT_NACK	ACCUMULATION	INT8	CR330B:CHANNEL ACTIV NACK Messages Sent by BTS in Immediate Assignment Procedure	B1275071421.C1278073473	Sum	hucsvbh, huctvbh
IMM_ASS_CH_ACT	ACCUMULATION	INT8	CR330A:Channel Activation Attempts in Immediate Assignment Procedure	B1275071421.C1278073466	Sum	hucsvbh, huctvbh
INCEXT_HO_CH_ACT_EXP	ACCUMULATION	INT8	CR335C:Channel Activation Timeouts in Incoming External Inter-Cell Handover Procedure	B1275071421.C1278073485	Sum	hucsvbh, huctvbh
INCEXT_HO_CH_ACT_NACK	ACCUMULATION	INT8	CR335B:CHANNEL ACTIV NACK Messages Sent by BTS in Incoming External Inter-Cell Handover Procedure	B1275071421.C1278073478	Sum	hucsvbh, huctvbh
INCEXT_HO_	ACCUMULATION	INT8	CR335A:Chann	B1275071421.C127	Sum	hucsvbh,

CH_ACT	TION		el Activation Attempts in Incoming External Inter-Cell Handover Procedure	8073471		huctvbh
INCINT_HO_CH_ACT_EXP	ACCUMULATION	INT8	CR334C:Channel Activation Timeouts in Incoming Internal Inter-Cell Handover Procedure	B1275071421.C127 8073484	Sum	hucsvbh, huctvbh
INCINT_HO_CH_ACT_NACK	ACCUMULATION	INT8	CR334B:CHANNEL ACTIV NACK Messages Sent by BTS in Incoming Internal Inter-Cell Handover Procedure	B1275071421.C127 8073477	Sum	hucsvbh, huctvbh
INCINT_HO_CH_ACT	ACCUMULATION	INT8	CR334A:Channel Activation Attempts in Incoming Internal Inter-Cell Handover Procedure	B1275071421.C127 8073470	Sum	hucsvbh, huctvbh
INTRA_HO_CH_ACT_EXP	ACCUMULATION	INT8	CR333C:Channel Activation Timeouts in Internal Intra-Cell Handover Procedure	B1275071421.C127 8073483	Sum	hucsvbh, huctvbh
INTRA_HO_CH_ACT_NACK	ACCUMULATION	INT8	CR333B:CHANNEL ACTIV NACK	B1275071421.C127 8073476	Sum	hucsvbh, huctvbh

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			Messages Sent by BTS in Internal Intra-Cell Handover Procedure			
INTRA_HO_C H_ACT	ACCUMULA TION	INT8	CR333A:Chann el Activation Attempts in Internal Intra- Cell Handover Procedure	B1275071421.C127 8073469	Sum	hucsvbh, huctvbh
Local_Channel _Act_Nack	ACCUMULA TION	INTEG ER	R3301H:Numb er of Local Channel Activations Nack	B1275071421.C128 2448029	Sum	
Local_Channel _Act	ACCUMULA TION	INTEG ER	R3301G:Numb er of Local Channel Activations	B1275071421.C128 2448028	Sum	

### 7.9.30 Cell.Huawei.GSM.Channel\_activation\_SDCCH

Channel activation on SDCCH

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
IMM_ASS_CH_ ACT_EMERGE NCY_SD	ACCUMULA TION	INTEG ER	R3300G:Chann el Activation Attempts in Immediate Assignment Procedure (Emergency Call)(SDCCH)	B1275071421.C12 78073489	Sum	hucsvbh, huctvbh
IMM_ASS_CH_ ACT_EXP_EM ERGENCY_SD	ACCUMULA TION	INTEG ER	R3300U:Chann el Activation Timeout Counts in Immediate Assignment	B1275071421.C12 78073499	Sum	hucsvbh, huctvbh

			Procedure (Emergency Call)(SDCCH)			
IMM_ASS_CH_ ACT_EXP_NO_ CALL_SD	ACCUMULA TION	INTEG ER	R3300V:Chann el Activation Timeout Counts in Immediate Assignment Procedure (Non-Call Part) (SDCCH)	B1275071421.C12 78073500	Sum	hucsvbh, huctvbh
IMM_ASS_CH_ ACT_EXP_ORI GIN_CALL_SD	ACCUMULA TION	INTEG ER	R3300R:Chann el Activation Timeout Counts in Immediate Assignment Procedure (Call Initiation) (SDCCH)	B1275071421.C12 78073496	Sum	hucsvbh, huctvbh
IMM_ASS_CH_ ACT_EXP_PA GING_RES_SD	ACCUMULA TION	INTEG ER	R3300S:Chann el Activation Timeout Counts in Immediate Assignment Procedure (Paging Response) (SDCCH)	B1275071421.C12 78073497	Sum	hucsvbh, huctvbh
IMM_ASS_CH_ ACT_EXP_RE_ ESTABLISH_S D	ACCUMULA TION	INTEG ER	R3300T:Chann el Activation Timeout Counts in Immediate Assignment Procedure (Call Re-	B1275071421.C12 78073498	Sum	hucsvbh, huctvbh

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			establishment) (SDCCH)			
IMM_ASS_CH_ ACT_EXP_SD	ACCUMULA TION	INT8	R3300C:Chann el Activation Timeouts in Immediate Assignment Procedure (SDCCH)	B1275071421.C12 78073423	Sum	hucsvbh, huctvbh
IMM_ASS_CH_ ACT_NACK_E MERGENCY_S D	ACCUMULA TION	INTEG ER	R3300P:Chann el ACTIV NACK Messages in Immediate Assignment Procedure (Emergency Call)(SDCCH)	B1275071421.C12 78073494	Sum	hucsvbh, huctvbh
IMM_ASS_CH_ ACT_NACK_N O_CALL_SD	ACCUMULA TION	INTEG ER	R3300Q:Chann el ACTIV NACK Messages in Immediate Assignment Procedure (Non-Call Part) (SDCCH)	B1275071421.C12 78073495	Sum	hucsvbh, huctvbh
IMM_ASS_CH_ ACT_NACK_O RIGIN_CALL_ SD	ACCUMULA TION	INTEG ER	R3300I:Channe l ACTIV NACK Messages in Immediate Assignment Procedure (Call Initiation) (SDCCH)	B1275071421.C12 78073491	Sum	hucsvbh, huctvbh
IMM_ASS_CH_ ACT_NACK_P AGING_RES_S D	ACCUMULA TION	INTEG ER	R3300J:Channe l ACTIV NACK Messages in Immediate Assignment Procedure	B1275071421.C12 78073492	Sum	hucsvbh, huctvbh

			(Paging Response) (SDCCH)			
IMM_ASS_CH_ACT_NACK_RE_ESTAB_SD	ACCUMULATION	INTEGER	R3300K:Channel ACTIV NACK Messages in Immediate Assignment Procedure (Call Re-establishment) (SDCCH)	B1275071421.C12 78073493	Sum	hucsvbh, huctvbh
IMM_ASS_CH_ACT_NACK_SD	ACCUMULATION	INT8	R3300B:CHAN ACTIV NACK Messages Sent by BTS in Immediate Assignment Procedure (SDCCH)	B1275071421.C12 78073420	Sum	hucsvbh, huctvbh
IMM_ASS_CH_ACT_NO_CALL_SD	ACCUMULATION	INTEGER	R3300H:Channel Activation Attempts in Immediate Assignment Procedure (Non-Call Part) (SDCCH)	B1275071421.C12 78073490	Sum	hucsvbh, huctvbh
IMM_ASS_CH_ACT_ORIGIN_CALL_SD	ACCUMULATION	INTEGER	R3300D:Channel Activation Attempts in Immediate Assignment Procedure (Call Initiation) (SDCCH)	B1275071421.C12 78073486	Sum	hucsvbh, huctvbh
IMM_ASS_CH_	ACCUMULATION	INTEGER	R3300E:Chann	B1275071421.C12	Sum	hucsvbh,

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ACT_PAGING_RES_SD	TION	ER	el Activation Attempts in Immediate Assignment Procedure (Paging Response) (SDCCH)	78073487		huctvbh
IMM_ASS_CH_ACT_RE_ESTABLISH_SD	ACCUMULATION	INTEGER	R3300F:Channel Activation Attempts in Immediate Assignment Procedure (Call Re-establishment) (SDCCH)	B1275071421.C12 78073488	Sum	hucsvbh, huctvbh
IMM_ASS_CH_ACT_SD	ACCUMULATION	INT8	R3300A:Channel Activation Attempts in Immediate Assignment Procedure (SDCCH)	B1275071421.C12 78073417	Sum	hucsvbh, huctvbh
Incext_HO_CH_ACT_EXP_SD	ACCUMULATION	INTEGER	R3350C:Channel Activation Timeouts in Incoming External Inter-Cell Handover Procedure (SDCCH)	B1275071421.C12 78073462	Sum	hucsvbh, huctvbh
Incext_HO_CH_ACT_NACK_SD	ACCUMULATION	INTEGER	R3350B:CHANNEL ACTIV NACK Messages Sent by BTS in Incoming External Inter-Cell Handover Procedure (SDCCH)	B1275071421.C12 78073459	Sum	hucsvbh, huctvbh
Incext_HO_CH_ACT_SD	ACCUMULATION	INTEGER	R3350A:Channel Activation	B1275071421.C12 78073456	Sum	hucsvbh, huctvbh

			Attempts in Incoming External Inter-Cell Handover Procedure (SDCCH)			
Incint_HO_CH_ACT_EXP_SD	ACCUMULATION	INTEGER	R3340C:Channel Activation Timeouts in Incoming Internal Inter-Cell Handover Procedure (SDCCH)	B1275071421.C12 78073453	Sum	hucsvbh, huctvbh
Incint_HO_CH_ACT_NACK_SD	ACCUMULATION	INTEGER	R3340B:CHANNEL ACTIV NACK Messages Sent by BTS in Incoming Internal Inter-Cell Handover Procedure (SDCCH)	B1275071421.C12 78073450	Sum	hucsvbh, huctvbh
Incint_HO_CH_ACT_SD	ACCUMULATION	INTEGER	R3340A:Channel Activation Attempts in Incoming Internal Inter-Cell Handover Procedure (SDCCH)	B1275071421.C12 78073447	Sum	hucsvbh, huctvbh
INTRA_HO_CH_ACT_EXP_SD	ACCUMULATION	INTEGER	R3330C:Channel Activation Timeouts in Internal Intra-Cell Handover Procedure (SDCCH)	B1275071421.C12 78073444	Sum	hucsvbh, huctvbh

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INTRA_HO_C H_ACT_NACK _SD	ACCUMULA TION	INTEG ER	R3330B:CHAN ACTIV NACK Messages Sent by BTS in Internal Intra- Cell Handover Procedure (SDCCH)	B1275071421.C12 78073441	Sum	hucsvbh, huctvbh
INTRA_HO_C H_ACT_SD	ACCUMULA TION	INTEG ER	R3330A:Chann el Activation Attempts in Internal Intra- Cell Handover Procedure (SDCCH)	B1275071421.C12 78073438	Sum	hucsvbh, huctvbh

### 7.9.31 Cell.Huawei.GSM.Channel\_activation\_TCHF

Channel activation on TCHF

KPI	Type	Data Type	Description	Derivation	Default Aggregat or	Other Aggrega tors
ASS_CH_ACT _EXP	ACCUMULA TION	INTEG ER	R3317C:Chann el Activation Timeouts in Assignment Procedure (TCHF)	B1275071421.C127 8073430	Sum	hucsvbh, huctvbh
ASS_CH_ACT _NACK	ACCUMULA TION	INTEG ER	R3317B:CHAN ACTIV NACK Messages Sent by BTS in Assignment Procedure (TCHF)	B1275071421.C127 8073428	Sum	hucsvbh, huctvbh
ASS_CH_ACT	ACCUMULA TION	INTEG ER	R3317A:Chann el Activation Attempts in Assignment Procedure (TCHF)	B1275071421.C127 8073426	Sum	hucsvbh, huctvbh

CHMD_CH_A CT_EXP	ACCUMULA TION	INTEG ER	R3327C:Chann el Activation Timeouts in Mode Modify Procedure (TCHF)	B1275071421.C127 8073436	Sum	hucsvbh, huctvbh
CHMD_CH_A CT_NACK	ACCUMULA TION	INTEG ER	R3327B:CHAN ACTIV NACK Messages Sent by BTS in Mode Modify Procedure (TCHF)	B1275071421.C127 8073434	Sum	hucsvbh, huctvbh
CHMD_CH_A CT	ACCUMULA TION	INTEG ER	R3327A:Chann el Activation Attempts in Mode Modify Procedure (TCHF)	B1275071421.C127 8073432	Sum	hucsvbh, huctvbh
IMM_ASS_C H_ACT_EXP	ACCUMULA TION	INT8	R3307C:Chann el Activation Timeouts in Immediate Assignment Procedure (TCHF)	B1275071421.C127 8073424	Sum	hucsvbh, huctvbh
IMM_ASS_C H_ACT_NAC K	ACCUMULA TION	INT8	R3307B:CHAN ACTIV NACK Messages Sent by BTS in Immediate Assignment Procedure (TCHF)	B1275071421.C127 8073421	Sum	hucsvbh, huctvbh
IMM_ASS_C H_ACT_TCHF	ACCUMULA TION	INT8	R3307A:Chann el Activation Attempts in Immediate	B1275071421.C127 8073418	Sum	hucsvbh, huctvbh

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			Assignment Procedure (TCHF)			
INCEXT_HO_CH_ACT_EXP	ACCUMULATION	INTEGER	R3357C:Channel Activation Timeouts in Incoming External Inter-Cell Handover Procedure (TCHF)	B1275071421.C1278073463	Sum	hucsvbh, huctvbh
INCEXT_HO_CH_ACT_NACK	ACCUMULATION	INTEGER	R3357B:CHANNEL ACTIV NACK Messages Sent by BTS in Incoming External Inter-Cell Handover Procedure (TCHF)	B1275071421.C1278073460	Sum	hucsvbh, huctvbh
INCEXT_HO_CH_ACT	ACCUMULATION	INTEGER	R3357A:Channel Activation Attempts in Incoming External Inter-Cell Handover Procedure (TCHF)	B1275071421.C1278073457	Sum	hucsvbh, huctvbh
INCINT_HO_CH_ACT_EXP	ACCUMULATION	INTEGER	R3347C:Channel Activation Timeouts in Incoming Internal Inter-Cell Handover Procedure (TCHF)	B1275071421.C1278073454	Sum	hucsvbh, huctvbh
INCINT_HO_CH_ACT_NACK	ACCUMULATION	INTEGER	R3347B:CHANNEL ACTIV NACK Messages Sent by BTS in Incoming Internal Inter-Cell Handover	B1275071421.C1278073451	Sum	hucsvbh, huctvbh

			Procedure (TCHF)			
INCINT_HO_CH_ACT	ACCUMULATION	INTEGER	R3347A:Channel Activation Attempts in Incoming Internal Inter-Cell Handover Procedure (TCHF)	B1275071421.C1278073448	Sum	hucsvbh, huctvbh
INTRA_HO_C H_ACT_EXP	ACCUMULATION	INTEGER	R3337C:Channel Activation Timeouts in Internal Intra-Cell Handover Procedure (TCHF)	B1275071421.C1278073445	Sum	hucsvbh, huctvbh
INTRA_HO_C H_ACT_NACK	ACCUMULATION	INTEGER	R3337B:CHAN ACTIV NACK Messages Sent by BTS in Internal Intra-Cell Handover Procedure (TCHF)	B1275071421.C1278073442	Sum	hucsvbh, huctvbh
INTRA_HO_C H_ACT	ACCUMULATION	INTEGER	R3337A:Channel Activation Attempts in Internal Intra-Cell Handover Procedure (TCHF)	B1275071421.C1278073439	Sum	hucsvbh, huctvbh
Local_Channel_Act_Nack	ACCUMULATION	INTEGER	R3301C:Number of Local Channel Activations Nack (TCHF)	B1275071421.C1282429897	Sum	
Local_Channel	ACCUMULATION	INTEGER	R3301E:Numbe	B1275071421.C128	Sum	

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_Act_Timeouts	TION	ER	r of Local Channel Activations Timeouts (TCHF)	2429899		
Local_Channel_Act	ACCUMULATION	INTEGER	R3301A: Number of Local Channel Activations (TCHF)	B1275071421.C128 2429895	Sum	

### 7.9.32 Cell.Huawei.GSM.Channel\_activation\_TCHH

Channel activation on TCHH

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ASS_CH_ACT_EXP	ACCUMULATION	INTEGER	R3318C: Channel Activation Timeouts in Assignment Procedure (TCHH)	B1275071421.C127 8073431	Sum	hucsvbh, huctvbh
ASS_CH_ACT_NACK	ACCUMULATION	INTEGER	R3318B: CHANNEL ACTIV NACK Messages Sent by BTS in Assignment Procedure (TCHH)	B1275071421.C127 8073429	Sum	hucsvbh, huctvbh
ASS_CH_ACT	ACCUMULATION	INTEGER	R3318A: Channel Activation Attempts in Assignment Procedure (TCHH)	B1275071421.C127 8073427	Sum	hucsvbh, huctvbh
CHMD_CH_ACT_EXP	ACCUMULATION	INTEGER	R3328C: Channel Activation Timeouts in Mode Modify Procedure	B1275071421.C127 8073437	Sum	hucsvbh, huctvbh

			(TCHH)			
CHMD_CH_A CT_NACK	ACCUMULA TION	INTEG ER	R3328B:CHAN ACTIV NACK Messages Sent by BTS in Mode Modify Procedure (TCHH)	B1275071421.C127 8073435	Sum	hucsvbh, huctvbh
CHMD_CH_A CT	ACCUMULA TION	INTEG ER	R3328A:Chann el Activation Attempts in Mode Modify Procedure (TCHH)	B1275071421.C127 8073433	Sum	hucsvbh, huctvbh
IMM_ASS_C H_ACT_EXP	ACCUMULA TION	INT8	R3308C:Chann el Activation Timeouts in Immediate Assignment Procedure (TCHH)	B1275071421.C127 8073425	Sum	hucsvbh, huctvbh
IMM_ASS_C H_ACT_NAC K	ACCUMULA TION	INT8	R3308B:CHAN ACTIV NACK Messages Sent by BTS in Immediate Assignment Procedure (TCHH)	B1275071421.C127 8073422	Sum	hucsvbh, huctvbh
IMM_ASS_C H_ACT	ACCUMULA TION	INT8	R3308A:Chann el Activation Attempts in Immediate Assignment Procedure (TCHH)	B1275071421.C127 8073419	Sum	hucsvbh, huctvbh
INCEXT_HO_ CH_ACT_EXP	ACCUMULA TION	INTEG ER	R3358C:Chann el Activation	B1275071421.C127 8073464	Sum	hucsvbh, huctvbh

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			Timeouts in Incoming External Inter-Cell Handover Procedure (TCHH)			
INCEXT_HO_CH_ACT_NACK	ACCUMULATION	INTEGER	R3358B:CHAN ACTIV NACK Messages Sent by BTS in Incoming External Inter-Cell Handover Procedure (TCHH)	B1275071421.C1278073461	Sum	huesvbh, huctvbh
INCEXT_HO_CH_ACT	ACCUMULATION	INTEGER	R3358A:Channel Activation Attempts in Incoming External Inter-Cell Handover Procedure (TCHH)	B1275071421.C1278073458	Sum	huesvbh, huctvbh
INCINT_HO_CH_ACT_EXP	ACCUMULATION	INTEGER	R3348C:Channel Activation Timeouts in Incoming Internal Inter-Cell Handover Procedure (TCHH)	B1275071421.C1278073455	Sum	huesvbh, huctvbh
INCINT_HO_CH_ACT_NACK	ACCUMULATION	INTEGER	R3348B:CHAN ACTIV NACK Messages Sent by BTS in Incoming Internal Inter-Cell Handover Procedure (TCHH)	B1275071421.C1278073452	Sum	huesvbh, huctvbh
INCINT_HO_CH_ACT	ACCUMULATION	INTEGER	R3348A:Channel Activation Attempts in	B1275071421.C1278073449	Sum	huesvbh, huctvbh

			Incoming Internal Inter-Cell Handover Procedure (TCHH)			
INTRA_HO_C H_ACT_EXP	ACCUMULATION	INTEGER	R3338C:Channel Activation Timeouts in Internal Intra-Cell Handover Procedure (TCHH)	B1275071421.C127 8073446	Sum	hucsvbh, huctvbh
INTRA_HO_C H_ACT_NACK	ACCUMULATION	INTEGER	R3338B:CHANACTIV NACK Messages Sent by BTS in Internal Intra-Cell Handover Procedure (TCHH)	B1275071421.C127 8073443	Sum	hucsvbh, huctvbh
INTRA_HO_C H_ACT	ACCUMULATION	INTEGER	R3338A:Channel Activation Attempts in Internal Intra-Cell Handover Procedure (TCHH)	B1275071421.C127 8073440	Sum	hucsvbh, huctvbh
Local_Channel _Act_Nack	ACCUMULATION	INTEGER	R3301D:Number of Local Channel Activations Nack (TCHH)	B1275071421.C128 2429898	Sum	
Local_Channel _Act_Timeouts	ACCUMULATION	INTEGER	R3301F:Number of Local Channel Activations Timeouts (TCHH)	B1275071421.C128 2429900	Sum	

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Local_Channel_Act	ACCUMULATION	INTEGER	R3301B: Number of Local Channel Activations (TCHH)	B1275071421.C128 2429896	Sum	
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### 7.9.33 Cell.Huawei.GSM.Channel\_assignment\_conc\_cell

Channel assignment - concentric cells

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ASS_CH_OVERFLOW_TCH_PREF_OLCELL	ACCUMULATION	INT8	R3223B: Channel Assignment Overflows (TCH) (Overlaid Subcell Preferred)	B1275071825.C12 78477428	Sum	hucsvbh, huctvbh
ASS_CH_OVERFLOW_TCH_PREF_ULCELL	ACCUMULATION	INT8	R3222B: Channel Assignment Overflows (TCH) (Underlaid Subcell Preferred)	B1275071825.C12 78477427	Sum	hucsvbh, huctvbh
ASS_TRAF_CH_ALLOC_REQ_PREF_OLCELL	ACCUMULATION	INT8	R3203B: TCH Assignment Requests (Overlaid Subcell Preferred)	B1275071825.C12 78477422	Sum	hucsvbh, huctvbh
ASS_TRAF_CH_ALLOC_REQ_PREF_ULCELL	ACCUMULATION	INT8	R3202B: TCH Assignment Requests (Underlaid Subcell Preferred)	B1275071825.C12 78477421	Sum	hucsvbh, huctvbh
CH_ALLOC_REQ_ONLY_OLCELL	ACCUMULATION	INT8	R3201: Channel Assignment Requests	B1275071825.C12 78477418	Sum	hucsvbh, huctvbh

			(Overlaid Subcell Only)			
CH_ALLOC_REQ_ONLY_ULCELL	ACCUMULATION	INT8	R3200:Channel Assignment Requests (Underlaid Subcell Only)	B1275071825.C1278477417	Sum	hucsvbh, huctvbh
CH_ALLOC_REQ_PREF_OLCELL	ACCUMULATION	INT8	R3203:Channel Assignment Requests (Overlaid Subcell Preferred)	B1275071825.C1278477420	Sum	hucsvbh, huctvbh
CH_ALLOC_REQ_PREF_ULCELL	ACCUMULATION	INT8	R3202:Channel Assignment Requests (Underlaid Subcell Preferred)	B1275071825.C1278477419	Sum	hucsvbh, huctvbh
CH_OVERFLOW_OLFR	ACCUMULATION	INT8	R3224H:Channel Assignment Overflows in Overlaid Subcell (TCHF)	B1275071825.C1278477438	Sum	hucsvbh, huctvbh
CH_OVERFLOW_OLHR	ACCUMULATION	INT8	R3224I:Channel Assignment Overflows in Overlaid Subcell (TCHH)	B1275071825.C1278477440	Sum	hucsvbh, huctvbh
CH_OVERFLOW_OLSIG_CH	ACCUMULATION	INT8	R3224G:Channel Assignment Overflows in Overlaid Subcell (SDCCH)	B1275071825.C1278477436	Sum	hucsvbh, huctvbh

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CH_OVERFLOW_OLTRAF_CH	ACCUMULATION	INT8	R3224J:Channel Assignment Overflows in Overlaid Subcell (TCH)	B1275071825.C1278477434	Sum	hucsvbh, huctvbh
CH_OVERFLOW_ULFR	ACCUMULATION	INT8	R3225H:Channel Assignment Overflows in Underlaid Subcell (TCHF)	B1275071825.C1278477437	Sum	hucsvbh, huctvbh
CH_OVERFLOW_ULHR	ACCUMULATION	INT8	R3225I:Channel Assignment Overflows in Underlaid Subcell (TCHH)	B1275071825.C1278477439	Sum	hucsvbh, huctvbh
CH_OVERFLOW_ULSIG_CH	ACCUMULATION	INT8	R3225G:Channel Assignment Overflows in Underlaid Subcell (SDCCH)	B1275071825.C1278477435	Sum	hucsvbh, huctvbh
CH_OVERFLOW_OLTRAF_CH	ACCUMULATION	INT8	R3225J:Channel Assignment Overflows in Underlaid Subcell (TCH)	B1275071825.C1278477433	Sum	hucsvbh, huctvbh
INCEXT_HO_CH_AL_RQ_TCH_PF_OLCELL	ACCUMULATION	INT8	R3203E:Channel Assignment Requests in Incoming External Inter-Cell Handover Procedure (TCH) (Overlaid Subcell Preferred)	B1275071825.C1278477426	Sum	hucsvbh, huctvbh
INCEXT_HO_CH_AL_RQ_TCH_PF_ULCELL	ACCUMULATION	INT8	R3202E:Channel Assignment Requests in	B1275071825.C1278477425	Sum	hucsvbh, huctvbh

			Incoming External Inter-Cell Handover Procedure (TCH) (Underlaid Subcell Preferred)			
INCEXT_HO_C H_OFLOW_TC H_PREF_OLCELL	ACCUMULATION	INT8	R3223E:Channel Assignment Overflows in Incoming External Inter-Cell Handover Procedure (TCH) (Overlaid Subcell Preferred)	B1275071825.C12 78477432	Sum	hucsvbh, huctvbh
INCEXT_HO_C H_OFLOW_TC H_PREF_ULCELL	ACCUMULATION	INT8	R3222E:Channel Assignment Overflows in Incoming External Inter-Cell Handover Procedure (TCH) (Underlaid Subcell Preferred)	B1275071825.C12 78477431	Sum	hucsvbh, huctvbh
INCINT_HO_CH _AL_RQ_TCH_ _PF_OLCELL	ACCUMULATION	INT8	R3203D:Channel Assignment Requests in Incoming Internal Inter-Cell Handover Procedure (TCH) (Overlaid Subcell	B1275071825.C12 78477424	Sum	hucsvbh, huctvbh

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			Preferred)			
INCINT_HO_CH _AL_RQ_TCH_ PF_ULCELL	ACCUMULA TION	INT8	R3202D:Chann el Assignment Requests in Incoming Internal Inter- Cell Handover Procedure (TCH) (Underlaid Subcell Preferred)	B1275071825.C12 78477423	Sum	hucsvbh, huctvbh
INCINT_HO_CH _OFLOW_TCH_ PREF_OLCELL	ACCUMULA TION	INT8	R3223D:Chann el Assignment Overflows in Incoming Internal Inter- Cell Handover Procedure (TCH) (Overlaid Subcell Preferred)	B1275071825.C12 78477430	Sum	hucsvbh, huctvbh
INCINT_HO_CH _OFLOW_TCH_ PREF_ULCELL	ACCUMULA TION	INT8	R3222D:Chann el Assignment Overflows in Incoming Internal Inter- Cell Handover Procedure (TCH) (Underlaid Subcell Preferred)	B1275071825.C12 78477429	Sum	hucsvbh, huctvbh
OLTO_ULHO_U LOVERFLOW_ TIMES	ACCUMULA TION	INT8	R3225K:Failed Handovers from Overlaid Subcell to Underlaid Subcell due to Busy Channels in Underlaid Subcell	B1275071825.C12 78477442	Sum	hucsvbh, huctvbh

ULTO_OLHO_O LOVERFLOW_ TIMES	ACCUMULA TION	INT8	R3224K:Failed Handovers from Underlaid Subcell to Overlaid Subcell due to Busy Channels in Overlaid Subcell	B1275071825.C12 78477441	Sum	hucsvbh, huctvbh
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### 7.9.34 Cell.Huawei.GSM.Channel\_assignment\_failures

Channel assignment failures

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ABIS_ALLOC_FAIL_FR	ACCUMULATION	INT8	R3162B:Numbe r of Failures to Allocate Abis Resources (TCHF)	B1275071824.C12 78476435	Sum	hucsvbh, huctvbh
ABIS_ALLOC_FAIL_HR	ACCUMULATION	INT8	R3163B:Numbe r of Failures to Allocate Abis Resources (TCHH)	B1275071824.C12 78476436	Sum	hucsvbh, huctvbh
ABIS_ALLOC_FAIL_PDCH	ACCUMULATION	INT8	R3164B:Numbe r of Failures to Allocate Abis Resources (Dynamic PDCH)	B1275071824.C12 78476437	Sum	hucsvbh, huctvbh
ASS_CH_ALL OC_FAIL_FR	ACCUMULATION	INT8	R3127B:Chann el Assignment Failures (All Channels Busy or Channels Unconfigured)	B1275071824.C12 78476420	Sum	hucsvbh, huctvbh

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			in Assignment Procedure (TCHF)			
ASS_CH_ALLOC_FAIL_HR	ACCUMULATION	INT8	R3128B:Channel Assignment Failures (All Channels Busy or Channels Unconfigured) in Assignment Procedure (TCHH)	B1275071824.C1278476421	Sum	hucsvbh, huctvbh
CH_ALLOC_FAIL_FR	ACCUMULATION	INT8	CR3127:Channel Assignment Failures (All Channels Busy or Channels Unconfigured) (TCHF)	B1275071824.C1278476432	Sum	hucsvbh, huctvbh
CH_ALLOC_FAIL_HR	ACCUMULATION	INT8	CR3128:Channel Assignment Failures (All Channels Busy or Channels Unconfigured) (TCHH)	B1275071824.C1278476433	Sum	hucsvbh, huctvbh
CH_ALLOC_FAIL_SD	ACCUMULATION	INT8	CR3120:Channel Assignment Failures (All Channels Busy or Channels Unconfigured) (SDCCH)	B1275071824.C1278476431	Sum	hucsvbh, huctvbh
CH_ALLOC_FAIL_TCH	ACCUMULATION	INT8	CR3129:Channel Assignment Failures (All Channels Busy or Channels Unconfigured) (TCH)	B1275071824.C1278476434	Sum	hucsvbh, huctvbh
FAIL_TCH_ALLOC_PWR_O	ACCUMULATION	INTEGER	CR3130:Number of Failures of	B1275071824.C1278476439	Sum	hucsvbh, huctvbh

VERLOAD			TCH Allocation (Power Overload) .Obsolete in V900R011.			
FAIL_TCH_SZ_BUSY_OLCELL	ACCUMULATION	INT8	R3549A:Failed TCH Seizures due to Busy (Overlay Cell)	B1275071824.C12 82411702	Sum	hucsvbh, huctvbh
FAIL_TCH_SZ_BUSY_ULCELL	ACCUMULATION	INT8	R3549B:Failed TCH Seizures due to Busy (Underlay Cell)	B1275071824.C12 82411703	Sum	hucsvbh, huctvbh
FAIL_TCH_SZ_HO_BUSY_OLCELL	ACCUMULATION	INT8	R3550A:Failed TCH Seizures Handover due to Busy (Overlay Cell)	B1275071824.C12 82411704	Sum	hucsvbh, huctvbh
FAIL_TCH_SZ_HO_BUSY_ULCELL	ACCUMULATION	INT8	R3550B:Failed TCH Seizures Handover due to Busy (Underlay Cell)	B1275071824.C12 82411705	Sum	hucsvbh, huctvbh
IMM_ASS_CH_ALLOC_FAIL_FR	ACCUMULATION	INT8	R3127A:Channel Assignment Failures (All Channels Busy or Channels Unconfigured) in Immediate Assignment Procedure (TCHF)	B1275071824.C12 78476418	Sum	hucsvbh, huctvbh
IMM_ASS_CH_ALLOC_FAIL_HR	ACCUMULATION	INT8	R3128A:Channel Assignment Failures (All Channels Busy or Channels	B1275071824.C12 78476419	Sum	hucsvbh, huctvbh

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			Unconfigured) in Immediate Assignment Procedure (TCHH)			
IMM_ASS_CH_ALLOC_FAIL_SD	ACCUMULATION	INT8	R3120A:Channel Assignment Failures (All Channels Busy or Channels Unconfigured) in Immediate Assignment Procedure (SDCCH)	B1275071824.C1278476417	Sum	hucsvbh, huctvbh
Incext_HO_CH_ALLOC_FAIL_FR	ACCUMULATION	INT8	R3127E:Channel Assignment Failures (All Channels Busy or Channels Unconfigured) in Incoming External Inter-Cell Handover Procedure (TCHF)	B1275071824.C1278476429	Sum	hucsvbh, huctvbh
Incext_HO_CH_ALLOC_FAIL_HR	ACCUMULATION	INT8	R3128E:Channel Assignment Failures (All Channels Busy or Channels Unconfigured) in Incoming External Inter-Cell Handover Procedure (TCHH)	B1275071824.C1278476430	Sum	hucsvbh, huctvbh
Incext_HO_CH_ALLOC_FAIL_SD	ACCUMULATION	INT8	R3120E:Channel Assignment Failures (All Channels Busy or Channels Unconfigured)	B1275071824.C1278476428	Sum	hucsvbh, huctvbh

			in Incoming External Inter-Cell Handover Procedure (SDCCH)			
Incint_HO_CH_ALLOC_FAIL_FR	ACCUMULATION	INT8	R3127D:Channel Assignment Failures (All Channels Busy or Channels Unconfigured) in Incoming Internal Inter-Cell Handover Procedure (TCHF)	B1275071824.C12 78476426	Sum	hucsvbh, huctvbh
Incint_HO_CH_ALLOC_FAIL_HR	ACCUMULATION	INT8	R3128D:Channel Assignment Failures (All Channels Busy or Channels Unconfigured) in Incoming Internal Inter-Cell Handover Procedure (TCHH)	B1275071824.C12 78476427	Sum	hucsvbh, huctvbh
Incint_HO_CH_ALLOC_FAIL_SD	ACCUMULATION	INT8	R3120D:Channel Assignment Failures (All Channels Busy or Channels Unconfigured) in Incoming Internal Inter-Cell Handover Procedure (SDCCH)	B1275071824.C12 78476425	Sum	hucsvbh, huctvbh
INTRAHO_CH	ACCUMULATION	INT8	R3127C:Chann	B1275071824.C12	Sum	hucsvbh,

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_ALLOC_FAIL_FR	TION		el Assignment Failures (All Channels Busy or Channels Unconfigured) in Internal Intra-Cell Handover Procedure (TCHF)	78476423		huctvbh
INTRAHO_CHANNEL_ALLOC_FAILURE_HR	ACCUMULATION	INT8	R3128C:Channel Assignment Failures (All Channels Busy or Channels Unconfigured) in Internal Intra-Cell Handover Procedure (TCHH)	B1275071824.C12 78476424	Sum	hucsvbh, huctvbh
INTRAHO_CHANNEL_ALLOC_FAILURE_SD	ACCUMULATION	INT8	R3120C:Channel Assignment Failures (All Channels Busy or Channels Unconfigured) in Internal Intra-Cell Handover Procedure (SDCCH)	B1275071824.C12 78476422	Sum	hucsvbh, huctvbh
RATE_SD_CONG	INTENSITY	FLOAT	RR370:Congestion Ratio on SDCCH per CELL(due to Busy)	B1275071824.C12 78476438	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
TCH_ALLOC_FAIL_POWER_DEFICIT	ACCUMULATION	INT8	CR3130:Number of TCH Allocation Failures (Power	B1275071824.C12 78476440	Sum	hucsvbh, huctvbh

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### 7.9.35 Cell.Huawei.GSM.Channel\_assignment\_GPRS

Channel assignment for GPRS

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CUR_SITE_FLEX_ABIS_TS_PREEMPT	ACCUMULATION	INTEGER	R3153A: Number of Pre-emptions of the Dynamic Abis Sub-Timeslots of the Serving Site	B1275071827.C1278479426	Sum	hucedvbh, huceuvbh, hucgdvvh, hucguvvh
DYN_PDCH_REQ_FAIL_NO_IDLE_ABIS	ACCUMULATION	INTEGER	R3142: Number of Failures to Request Dynamic PDCH (No Abis Resources Available)	B1275071827.C1278479419	Sum	hucedvbh, huceuvbh, hucgdvvh, hucguvvh
FAIL_ADD_SUB_TS_BTS_DSP_LIMIT	ACCUMULATION	INTEGER	R3154B: Number of Failures for Adding Sub-Timeslot (Bts Dsp Limited). Obsolete in V900R011.	B1275071827.C1278479430	Sum	hucedvbh, huceuvbh, hucgdvvh, hucguvvh
FLEX_ABIS_TS_RELEASE_TIMES	ACCUMULATION	INTEGER	R3154A: Number of Releases of the Pre-empted Dynamic Abis Sub-Timeslots	B1275071827.C1278479428	Sum	hucedvbh, huceuvbh, hucgdvvh,

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						hucgubvh
NXT_LNK_SITE_FLEX_ABIS_TS_PREMPT	ACCUMULATION	INTEGER	R3153C: Number of Pre-emptions of the Dynamic Abis Sub-Timeslots of the Lower-Level Site	B1275071827.C1278479427	Sum	hucedvbh, huceuvbh, hucgdvvh, hucgubvh
PS_PREEMPT_CS_TCH_TIMES	ACCUMULATION	INTEGER	R3181: Number of Times CS Services Pre-empt the Resources for PS Services	B1275071827.C1278479429	Sum	hucedvbh, huceuvbh, hucgdvvh, hucgubvh
SUB_TS_REQ_FLEX_ABIS_RES_REQ_FAIL	ACCUMULATION	INTEGER	R3152A: Number of Failures for Adding Sub-Timeslot (Abis Resource Request Failure)	B1275071827.C1278479423	Sum	hucedvbh, huceuvbh, hucgdvvh, hucgubvh
SUB_TS_REQ_FLEX_ABIS_TER_REQ_FAIL	ACCUMULATION	INTEGER	R3152C: Number of Failures for Adding Sub-Timeslot (Dynamic Allocation of Abis Timeslots) (Abis Resource Request Failure)	B1275071827.C1278479424	Sum	hucedvbh, huceuvbh, hucgdvvh, hucgubvh
SUB_TS_REQ_FREE_TS_TER_REQ_FAIL	ACCUMULATION	INTEGER	R3152D: Number of Failures for Adding Sub-Timeslot (Fixed Allocation of Idle Timeslots)	B1275071827.C1278479425	Sum	hucedvbh, huceuvbh, hucgdvvh, hucgubvh

			(Abis Resource Request Failure)			h
SUB_TS_REQ_SUCC_FLEX_ABIS_TS	ACCUMULATION	INTEGER	R3151C: Number of Successful Requests for Adding Sub-Timeslot (Through Dynamic Allocation of Idle Timeslots)	B1275071827.C1278479422	Sum	hucedvbh, huceuvbh, hucgdvbh, hucguvbh
SUB_TS_REQ_SUCC_FREE_TS	ACCUMULATION	INTEGER	R3151A: Number of Successful Requests for Adding Sub-Timeslot (Through Fixed Allocation of Idle Timeslots)	B1275071827.C1278479421	Sum	hucedvbh, huceuvbh, hucgdvbh, hucguvbh
SUB_TS_REQ_TIMES	ACCUMULATION	INTEGER	R3150: Number of Requests for Adding Sub-Timeslot	B1275071827.C1278479420	Sum	hucedvbh, huceuvbh, hucgdvbh, hucguvbh
TO_PCU_TCH_REQ_SUCC_TIMES	ACCUMULATION	INTEGER	R3141: Successful Requests for TCH from the PCU	B1275071827.C1278479418	Sum	hucedvbh, huceuvbh, hucgdvbh, hucguvbh
TO_PCU_TCH_REQ_TIMES	ACCUMULATION	INTEGER	R3140: Requests for TCH from	B1275071827.C1278479417	Sum	hucedvbh,

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			the PCU			hucevvh, hucgdvh, hucgvvh, hucgvvh
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### 7.9.36 Cell.Huawei.GSM.Channel\_assignment\_queue

Channel assignment queue

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
QUEUE_FAIL_DYNADJ_TIMEOUT	ACCUMULATION	INT8	R3138:Failed Queuings (Dynamic Adjustment Timed Out)	B1275071826.C1278478425	Sum	hucsvbh, huctvbh
QUEUE_FAIL_PREEMPTION	ACCUMULATION	INT8	R3136:Failed Queuings (Preemption)	B1275071826.C1278478423	Sum	hucsvbh, huctvbh
QUEUE_FAIL_TIMEOUT	ACCUMULATION	INT8	R3137:Failed Queuings (Queuing Timer Expired)	B1275071826.C1278478424	Sum	hucsvbh, huctvbh
QUEUE_FAIL_TIMES	ACCUMULATION	INT8	CR313C:Failed Queuing Attempts	B1275071826.C1278478428	Sum	hucsvbh, huctvbh
QUEUE_LIST_LEN_AVR	INTENSITY	FLOAT	AR3131:Mean Queue Length	B1275071826.C1278478426	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
QUEUE_LIST_MAX_LEN	INTENSITY	INT8	R3130:Maximum Queue Length	B1275071826.C1278478417	Constant	Average, hucsvbh, huctvbh, Maximum, Minimum

						m, Sum
QUEUE_OVERFLOW_NOT_INTERRUPTED_Q	ACCUMULATION	INT8	R3134:Failed Queuing Attempts due to Queue Overflow	B1275071826.C1278478421	Sum	hucsvbh, huctvbh
QUEUE_REQUEST_TIMES	ACCUMULATION	INT8	R3135:Queuing Requests	B1275071826.C1278478422	Sum	hucsvbh, huctvbh
QUEUE_WAITING_TIME_AVERAGE	INTENSITY	FLOAT	AR3133:Mean Queuing Duration	B1275071826.C1278478427	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
Sampled_Queueings	ACCUMULATION	INT8	R3132:Sampled Queueings	B1275071826.C1278478419	Sum	hucsvbh, huctvbh
Total_Queue_Length	ACCUMULATION	INT8	R3131:Total Queue Length	B1275071826.C1278478418	Sum	hucsvbh, huctvbh
Total_Queueing_Duration	ACCUMULATION	INT8	R3133:Total Queuing Duration	B1275071826.C1278478420	Sum	hucsvbh, huctvbh

**7.9.37 Cell.Huawei.GSM.Channel\_assignment\_request**

Channel assignment requests

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ABIS_ALLOC_REQ_FR	ACCUMULATION	INT8	R3162A:Number of Requests for Allocating Abis Resources (TCHF)	B1275071822.C1278474444	Sum	hucsvbh, huctvbh
ABIS_ALLOC_	ACCUMULATION	INT8	R3163A:Numb	B1275071822.C12	Sum	hucsvbh,

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REQ_HR	TION		er of Requests for Allocating Abis Resources (TCHH)	78474445		huctvbh
ABIS_ALLOC_REQ_PDCH	ACCUMULATION	INT8	R3164A: Number of Requests for Allocating Abis Resources (Dynamic PDCH)	B1275071822.C12 78474446	Sum	hucsvbh, huctvbh
ASS_CH_ALLOC_REQ_FR	ACCUMULATION	INT8	R3107B: Channel Assignment Requests in Assignment Procedure (TCHF)	B1275071822.C12 78474421	Sum	hucsvbh, huctvbh
ASS_CH_ALLOC_REQ_HR	ACCUMULATION	INT8	R3108B: Channel Assignment Requests in Assignment Procedure (TCHH)	B1275071822.C12 78474422	Sum	hucsvbh, huctvbh
ASS_CH_ALLOC_REQ_TCH	ACCUMULATION	INT8	R3109B: Channel Assignment Requests in Assignment Procedure (TCH)	B1275071822.C12 78474423	Sum	hucsvbh, huctvbh
ATER_OVERFLOW_TIMES	ACCUMULATION	INT8	R3166A: Number of Preferable Selections of TCHH in a Cell (Ater Resource Congestion)	B1275071822.C12 78474448	Sum	hucsvbh, huctvbh
CH_ALLOC_REQ_FR	ACCUMULATION	INT8	CR3107: Channel Assignment Requests (TCHF)	B1275071822.C12 78474437	Sum	hucsvbh, huctvbh
CH_ALLOC_REQ_HR	ACCUMULATION	INT8	CR3108: Channel Assignment Requests	B1275071822.C12 78474438	Sum	hucsvbh, huctvbh

			(TCHH)			
CH_ALLOC_REQ_SD	ACCUMULATION	INT8	CR3100:Channel Assignment Requests (SDCCH)	B1275071822.C1278474436	Sum	hucsvbh, huctvbh
CH_ALLOC_REQ_TCH	ACCUMULATION	INT8	CR3109:Channel Assignment Requests (TCH)	B1275071822.C1278474439	Sum	hucsvbh, huctvbh
Chnl_Ass_Succ_TCH	ACCUMULATION	INTEGER	R3111:CELL Channel Assignments Successful (TCH)	B1275071822.C1278474451	Sum	hucsvbh, huctvbh
DTM_CHNL_ASSG_SUCC_TIMES_TCHF	ACCUMULATION	INT8	R3141A:DTM Channel Assignments Successful Times (TCHF)	B1275071822.C1278474453	Sum	hucsvbh, huctvbh
DTM_CHNL_ASSG_SUCC_TIMES_TCHH	ACCUMULATION	INT8	R3142A:DTM Channel Assignments Successful Times (TCHH)	B1275071822.C1278474454	Sum	hucsvbh, huctvbh
DTM_CHNL_ASSG_TIMES	ACCUMULATION	INT8	R3100:DTM Channel Assignments Times	B1275071822.C1278474452	Sum	hucsvbh, huctvbh
FLEXABIS_OVERFLOW_TIMES	ACCUMULATION	INT8	R3165A:Number of Preferable Selections of TCHH in a Cell (Abis Resource Congestion)	B1275071822.C1278474447	Sum	hucsvbh, huctvbh
IMM_ASS_CH_ALLOC_REQ	ACCUMULATION	INT8	R3107A:Channel Assignment	B1275071822.C1278474418	Sum	hucsvbh, huctvbh

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_FR			Requests in Immediate Assignment Procedure (TCHF)			
IMM_ASS_CH_ALLOC_REQ_HR	ACCUMULATION	INT8	R3108A:Channel Assignment Requests in Immediate Assignment Procedure (TCHH)	B1275071822.C1278474419	Sum	hucsvbh, huctvbh
IMM_ASS_CH_ALLOC_REQ_SD	ACCUMULATION	INT8	R3100A:Channel Assignment Requests in Immediate Assignment Procedure (SDCCH)	B1275071822.C1278474417	Sum	hucsvbh, huctvbh
IMM_ASS_CH_ALLOC_REQ_TCH	ACCUMULATION	INT8	R3109A:Channel Assignment Requests in Immediate Assignment Procedure (TCH)	B1275071822.C1278474420	Sum	hucsvbh, huctvbh
IMM_ASS_CH_N_ALLOC_FAIL_NO_USE_TCH	ACCUMULATION	INT8	R3110:TCH Channel Alloc Failed(No Usable Channel) Times In Imm Assignment	B1275071822.C1278474450	Sum	hucsvbh, huctvbh
Incext_HO_CH_ALLOC_REQ_FR	ACCUMULATION	INT8	R3107E:Channel Assignment Requests in Incoming External Inter-Cell Handover Procedure (TCHF)	B1275071822.C1278474433	Sum	hucsvbh, huctvbh
Incext_HO_CH	ACCUMULATION	INT8	R3108E:Chann	B1275071822.C12	Sum	hucsvbh,

_ALLOC_REQ _HR	TION		el Assignment Requests in Incoming External Inter- Cell Handover Procedure (TCHH)	78474434		huctvbh
Incext_HO_CH _ALLOC_REQ _SD	ACCUMULA TION	INT8	R3100E:Chann el Assignment Requests in Incoming External Inter- Cell Handover Procedure (SDCCH)	B1275071822.C12 78474432	Sum	hucsvbh, huctvbh
Incext_HO_CH _ALLOC_REQ _TCH	ACCUMULA TION	INT8	R3109E:Chann el Assignment Requests in Incoming External Inter- Cell Handover Procedure (TCH)	B1275071822.C12 78474435	Sum	hucsvbh, huctvbh
Incint_HO_CH _ALLOC_REQ_ FR	ACCUMULA TION	INT8	R3107D:Chann el Assignment Requests in Incoming Internal Inter- Cell Handover Procedure (TCHF)	B1275071822.C12 78474429	Sum	hucsvbh, huctvbh
Incint_HO_CH _ALLOC_REQ_ HR	ACCUMULA TION	INT8	R3108D:Chann el Assignment Requests in Incoming Internal Inter- Cell Handover Procedure (TCHH)	B1275071822.C12 78474430	Sum	hucsvbh, huctvbh

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Incint_HO_CH_ALLOC_REQ_SD	ACCUMULATION	INT8	R3100D:Channel Assignment Requests in Incoming Internal Inter-Cell Handover Procedure (SDCCH)	B1275071822.C1278474428	Sum	hucsvbh, huctvbh
Incint_HO_CH_ALLOC_REQ_TCH	ACCUMULATION	INT8	R3109D:Channel Assignment Requests in Incoming Internal Inter-Cell Handover Procedure (TCH)	B1275071822.C1278474431	Sum	hucsvbh, huctvbh
INTRAHO_CH_ALLOC_REQ_FR	ACCUMULATION	INT8	R3107C:Channel Assignment Requests in Internal Intra-Cell Handover Procedure (TCHF)	B1275071822.C1278474425	Sum	hucsvbh, huctvbh
INTRAHO_CH_ALLOC_REQ_HR	ACCUMULATION	INT8	R3108C:Channel Assignment Requests in Internal Intra-Cell Handover Procedure (TCHH)	B1275071822.C1278474426	Sum	hucsvbh, huctvbh
INTRAHO_CH_ALLOC_REQ_SD	ACCUMULATION	INT8	R3100C:Channel Assignment Requests in Internal Intra-Cell Handover Procedure (SDCCH)	B1275071822.C1278474424	Sum	hucsvbh, huctvbh
INTRAHO_CH_ALLOC_REQ_TCH	ACCUMULATION	INT8	R3109C:Channel Assignment Requests in Internal Intra-Cell Handover Procedure	B1275071822.C1278474427	Sum	hucsvbh, huctvbh

			(TCH)			
Local_Channel_Requests_TCHF	ACCUMULATION	INTEGER	R3142B: Number of Local Channel Requests (TCHF)	B1275071822.C12 82429890	Sum	
Local_Channel_Requests_TCHH	ACCUMULATION	INTEGER	R3142C: Number of Local Channel Requests (TCHH)	B1275071822.C12 82429891	Sum	
Local_Channel_Requests_TCH	ACCUMULATION	INTEGER	R3142D: Number of Local Channel Requests (TCH)	B1275071822.C12 82429892	Sum	
PCU_REQ_DY PDCH_SUCC_ TIMES	ACCUMULATION	INT8	R3160C: Number of Successful PCU-Initiated Requests for Dynamic PDCH	B1275071822.C12 78474441	Sum	hucsvbh, huctvbh
PCU_REQ_DY PDCH_TIMES	ACCUMULATION	INT8	R3160A: Number of PCU-Initiated Requests for Dynamic PDCH	B1275071822.C12 78474440	Sum	hucsvbh, huctvbh
RADIORES_O VERFLOW_ TIMES	ACCUMULATION	INT8	R3167A: Number of Preferable Selections of TCHH in a Cell (Radio Resource Congestion)	B1275071822.C12 78474449	Sum	hucsvbh, huctvbh
REQ_PDCH_B	ACCUMULATION	INT8	R3161B: Numb	B1275071822.C12	Sum	hucsvbh,

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ACK_FAILED_TIMES	TION		er of Failed BSC-Initiated Requests for Dynamic PDCH from the PCU	78474443		huctvbh
REQ_PDCH_B ACK_TIMES	ACCUMULATION	INT8	R3161A: Number of BSC-Initiated Requests for Dynamic PDCH from the PCU	B1275071822.C12 78474442	Sum	hucsvbh, huctvbh

### 7.9.38 Cell.Huawei.GSM.Channel\_busy\_duration

Channel busy duration and state

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ALL_CH_BUSY_TIME_FR_OLCELL	INTENSITY	INT8	R3547A: Busy State Duration of Channels (TCHF) (Overlay Cell)	B1275071819.C128 2411708	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
ALL_CH_BUSY_TIME_FR_ULCELL	INTENSITY	INT8	R3547B: Busy State Duration of Channels (TCHF) (Underlay Cell)	B1275071819.C128 2411712	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
ALL_CH_BUSY_TIME_FR	ACCUMULATION	INT8	R3541: Busy State Duration of Channels (TCHF)	B1275071819.C127 8471421	Sum	hucsvbh, huctvbh
ALL_CH_BUSY_TIME_HR_OLCELL	INTENSITY	INT8	R3548A: Busy State Duration of Channels	B1275071819.C128 2411709	Average	hucsvbh, huctvbh, Sum,

			(TCHH) (Overlay Cell)			Minimum, Maximum
ALL_CH_BUSY_TIME_HR_ULCELL	INTENSITY	INT8	R3548B:Busy State Duration of Channels (TCHH) (Underlay Cell)	B1275071819.C1282411713	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
ALL_CH_BUSY_TIME_HR	ACCUMULATION	INT8	R3542:Busy State Duration of Channels (TCHH)	B1275071819.C1278471422	Sum	hucsvbh, huctvbh
ALL_CH_BUSY_TIME_SD_OLCELL	INTENSITY	INT8	R3545A:Busy State Duration of Channels (SDCCH) (Overlay Cell)	B1275071819.C1282411706	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
ALL_CH_BUSY_TIME_SD_ULCELL	INTENSITY	INT8	R3545B:Busy State Duration of Channels (SDCCH) (Underlay Cell)	B1275071819.C1282411710	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
ALL_CH_BUSY_TIME_SD	ACCUMULATION	INT8	R3540:Busy State Duration of Channels (SDCCH)	B1275071819.C1278471420	Sum	hucsvbh, huctvbh
ALL_CH_BUSY_TIME_TCH_OLCELL	INTENSITY	INT8	R3546A:Busy State Duration of Channels (TCH) (Overlay Cell)	B1275071819.C1282411707	Average	hucsvbh, huctvbh, Sum, Minimum,

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						Maximum
ALL_CH_BUSY_TIME_TCH_ULCELL	INTENSITY	INT8	R3546B:Busy State Duration of Channels (TCH) (Underlay Cell)	B1275071819.C1282411711	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
ALL_CHAN_BUSY_TIME_TCH	ACCUMULATION	INT8	R3543:Busy State Duration of Channels (TCH)	B1275071819.C1278471426	Sum	hucsvbh, huctvbh
CH_BUSY_TIME_SDCCH_AVR	INTENSITY	FLOAT	AR3530:Mean Duration of Busy State for Channels (SDCCH)	B1275071819.C1278471423	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_BUSY_TIME_TCH_AVR	INTENSITY	FLOAT	R3544:Mean Duration of Busy State for Channels (TCH)	B1275071819.C1278471427	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_BUSY_TIME_TCHF_AVR	INTENSITY	FLOAT	AR3531:Mean Duration of Busy State for Channels (TCHF)	B1275071819.C1278471424	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_BUSY_TIME_TCHH_AVR	INTENSITY	FLOAT	AR3532:Mean Duration of Busy State for Channels (TCHH)	B1275071819.C1278471425	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum

Dur_of_Busy_st_for_SDCCH	ACCUMULATION	INT8	R3530:Duration of Busy State for Channels (SDCCH)	B1275071819.C1278471417	Sum	hucsvbh, huctvbh
Dur_of_Busy_st_for_TCHF	ACCUMULATION	INT8	R3531:Duration of Busy State for Channels (TCHF)	B1275071819.C1278471418	Sum	hucsvbh, huctvbh
Dur_of_Busy_st_for_TCHH	ACCUMULATION	INT8	R3532:Duration of Busy State for Channels (TCHH)	B1275071819.C1278471419	Sum	hucsvbh, huctvbh

### 7.9.39 Cell.Huawei.GSM.Channel\_config\_availability

Channel configuration availability

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
Av_EDGE_1800_1900_Cell	ACCUMULATION	INTEGER	R3025B: Number of Available Channels (EDGE) (1800/1900 Cell)	B1275071817.C1278469452	Sum	hucsvbh, huctvbh
Av_EDGE_900_850_Cell	ACCUMULATION	INTEGER	R3025A: Number of Available Channels (EDGE) (900/850 Cell)	B1275071817.C1278469451	Sum	hucsvbh, huctvbh
Av_PDCH_1800_1900_Cell	ACCUMULATION	INTEGER	R3021B: Number of Available Channels (PDCH) (1800/1900 Cell)	B1275071817.C1278469450	Sum	hucsvbh, huctvbh

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Av_PDCH_900_850_Cell	ACCUMULATION	INTEGER	R3021A: Number of Available Channels (PDCH) (900/850 Cell)	B1275071817.C12 78469449	Sum	hucsvbh, huctvbh
Av_PDCHs_Converted_dyn_PDC Hs_1800_Cell	ACCUMULATION	INTEGER	R3024B: Number of Available Channels (PDCHs Converted from Dynamic PDCHs) (1800/1900 Cell)	B1275071817.C12 78469456	Sum	hucsvbh, huctvbh
Av_PDCHs_Converted_dyn_PDC Hs_900_Cell	ACCUMULATION	INTEGER	R3024A: Number of Available Channels (PDCHs Converted from Dynamic PDCHs) (900/850 Cell)	B1275071817.C12 78469455	Sum	hucsvbh, huctvbh
Av_SDCCH_1800_1900_Cell	ACCUMULATION	INTEGER	R3020B: Number of Available Channels (SDCCH) (1800/1900 Cell)	B1275071817.C12 78469444	Sum	hucsvbh, huctvbh
Av_SDCCH_900_850_Cell	ACCUMULATION	INTEGER	R3020A: Number of Available Channels (SDCCH) (900/850 Cell)	B1275071817.C12 78469443	Sum	hucsvbh, huctvbh
Av_TCHF_1800_1900_Cell	ACCUMULATION	INTEGER	R3027B: Number of Available Channels (TCHF) (1800/1900 Cell)	B1275071817.C12 78469446	Sum	hucsvbh, huctvbh

Av_TCHF_900_850_Cell	ACCUMULATION	INTEGER	R3027A: Number of Available Channels (TCHF) (900/850 Cell)	B1275071817.C12 78469445	Sum	hucsvbh, huctvbh
Av_TCHH_1800_1900_Cell	ACCUMULATION	INTEGER	R3028B: Number of Available Channels (TCHH) (1800/1900 Cell)	B1275071817.C12 78469448	Sum	hucsvbh, huctvbh
Av_TCHH_900_850_Cell	ACCUMULATION	INTEGER	R3028A: Number of Available Channels (TCHH) (900/850 Cell)	B1275071817.C12 78469447	Sum	hucsvbh, huctvbh
Av_TCHs_Converted_dyn_PDC Hs_1800_Cell	ACCUMULATION	INTEGER	R3023B: Number of Available Channels (TCHs Converted from Dynamic PDCHs) (1800/1900 Cell)	B1275071817.C12 78469454	Sum	hucsvbh, huctvbh
Av_TCHs_Converted_dyn_PDC Hs_900_Cell	ACCUMULATION	INTEGER	R3023A: Number of Available Channels (TCHs Converted from Dynamic PDCHs) (900/850 Cell)	B1275071817.C12 78469453	Sum	hucsvbh, huctvbh
AvailChan_EDG EOverlayCell	ACCUMULATION	INTEGER	R3043: Number of Available	B1275071817.C12 82411701	Sum	

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			Channels (Support EDGE) (Overlay Cell)			
AvailChan_PDC H_Overlay_Cell	ACCUMULA TION	INTEG ER	R3042:Numbe r of Available Channels (PDCH) (Overlay Cell)	B1275071817.C12 82411700	Sum	
AvailChan_SDC CH_Overlay_Cel l	ACCUMULA TION	INTEG ER	R3039:Numbe r of Available Channels (SDCCH) (Overlay Cell)	B1275071817.C12 82411697	Sum	
AvailChan_TCH F_Overlay_Cell	ACCUMULA TION	INTEG ER	R3040:Numbe r of Available Channels (TCHF) (Overlay Cell)	B1275071817.C12 82411698	Sum	
AvailChan_TCH H_Overlay_Cell	ACCUMULA TION	INTEG ER	R3041:Numbe r of Available Channels (TCHH) (Overlay Cell)	B1275071817.C12 82411699	Sum	
CH_AV_PDCH_ FROM_DYN_P DCH_1800_AV R	INTENSITY	FLOA T	AR3024B:Mea n Number of Available Channels (PDCHs Converted from Dynamic PDCHs) (1800/1900 Cell)	B1275071817.C12 78469481	Average	Average, hucsvbh, huctvbh, Maximu m, Minimu m, Sum
CH_AV_PDCH_ FROM_DYN_P DCH_900_AV R	INTENSITY	FLOA T	AR3024A:Mea n Number of Available Channels (PDCHs Converted from Dynamic PDCHs)	B1275071817.C12 78469480	Average	Average, hucsvbh, huctvbh, Maximu m, Minimu m, Sum

			(900/850 Cell)		
CH_AV_TCH_F ROM_DYN_PD CH_1800_AVR	INTENSITY	FLOA T	AR3023B:Mean Number of Available Channels (TCHs Converted from Dynamic PDCHs) (1800/1900 Cell)	B1275071817.C12 78469479	Average  Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_AV_TCH_F ROM_DYN_PD CH_900_AVR	INTENSITY	FLOA T	AR3023A:Mean Number of Available Channels (TCHs Converted from Dynamic PDCHs) (900/850 Cell)	B1275071817.C12 78469478	Average  Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_AVAIL_NUM_EDGE_1800_AVR	INTENSITY	FLOA T	AR3025B:Mean Number of Available Channels (EDGE) (1800/1900 Cell)	B1275071817.C12 78469477	Average  Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_AVAIL_NUM_EDGE_900_AVR	INTENSITY	FLOA T	AR3025A:Mean Number of Available Channels (EDGE) (900/850 Cell)	B1275071817.C12 78469476	Average  Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_AVAIL_NUM_FR_1800_AVR	INTENSITY	FLOA T	AR3027B:Mean Number of Available Channels	B1275071817.C12 78469471	Average  Average, hucsvbh, huctvbh, Maximum

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			(TCHF) (1800/1900 Cell)			m, Minimu m, Sum
CH_AVAIL_NUM_FR_900_AVR	INTENSITY	FLOAT	AR3027A:Mean Number of Available Channels (TCHF) (900/850 Cell)	B1275071817.C12 78469470	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_AVAIL_NUM_HR_1800_AVR	INTENSITY	FLOAT	AR3028B:Mean Number of Available Channels (TCHH) (1800/1900 Cell)	B1275071817.C12 78469473	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_AVAIL_NUM_HR_900_AVR	INTENSITY	FLOAT	AR3028A:Mean Number of Available Channels (TCHH) (900/850 Cell)	B1275071817.C12 78469472	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_AVAIL_NUM_PDCH_1800_AVR	INTENSITY	FLOAT	AR3021B:Mean Number of Available Channels (PDCH) (1800/1900 Cell)	B1275071817.C12 78469475	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_AVAIL_NUM_PDCH_900_AVR	INTENSITY	FLOAT	AR3021A:Mean Number of Available Channels (PDCH) (900/850 Cell)	B1275071817.C12 78469474	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_AVAIL_NUM_SD_1800_AVR	INTENSITY	FLOAT	AR3020B:Mean Number of Available Channels	B1275071817.C12 78469469	Average	Average, hucsvbh, huctvbh, Maximum

			(SDCCH) (1800/1900 Cell)			m, Minimu m, Sum
CH_AVAIL_NUM_SD_900_AVR	INTENSITY	FLOAT	AR3020A:Mean Number of Available Channels (SDCCH) (900/850 Cell)	B1275071817.C12 78469468	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum

### 7.9.40 Cell.Huawei.GSM.Channel\_config\_initial\_dynamic

Number of initially and dynamically configured channels

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
Atts_Configured_CHNLs	ACCUMULATION	INT8	R303:Attempts Number of Configured Channels	B1275071817.C12 78469457	Sum	hucsvbh, huctvbh
CH_CFG_NUM_CBCH_1800	INTENSITY	INT8	R3009B:Number of Initially Configured Channels (CBCH) (1800/1900 Cell)	B1275071817.C12 78469432	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_CFG_NUM_CBCH_900	INTENSITY	INT8	R3009A:Number of Initially Configured Channels (CBCH) (900/850 Cell)	B1275071817.C12 78469431	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_CFG_NUM_DYN_EDGE_1	INTENSITY	INT8	R3006B:Number of Initially	B1275071817.C12 78469430	Average	Average, hucsvbh,

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800			Configured Channels (Dynamic EDGE) (1800/1900 Cell)			huctvbh, Maximum, Minimum, Sum
CH_CFG_NUM_DYN_EDGE_900	INTENSITY	INT8	R3006A: Number of Initially Configured Channels (Dynamic EDGE) (900/850 Cell)	B1275071817.C1278469429	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_CFG_NUM_DYN_PDCH_1800	INTENSITY	INT8	R3002B: Number of Initially Configured Channels (Dynamic PDCH) (1800/1900 Cell)	B1275071817.C1278469426	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_CFG_NUM_DYN_PDCH_900	INTENSITY	INT8	R3002A: Number of Initially Configured Channels (Dynamic PDCH) (900/850 Cell)	B1275071817.C1278469425	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_CFG_NUM_FR_1800	INTENSITY	INT8	R3007B: Number of Initially Configured Channels (TCHF) (1800/1900 Cell)	B1275071817.C1278469420	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_CFG_NUM_FR_900	INTENSITY	INT8	R3007A: Number of Initially Configured Channels (TCHF) (900/850 Cell)	B1275071817.C1278469419	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum

CH_CFG_NUM_HR_1800	INTENSITY	INT8	R3008B: Number of Initially Configured Channels (TCHH) (1800/1900 Cell)	B1275071817.C12 78469422	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_CFG_NUM_HR_900	INTENSITY	INT8	R3008A: Number of Initially Configured Channels (TCHH) (900/850 Cell)	B1275071817.C12 78469421	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_CFG_NUM_SD_1800	INTENSITY	INT8	R3000B: Number of Initially Configured Channels (SDCCH) (1800/1900 Cell)	B1275071817.C12 78469418	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_CFG_NUM_SD_900	INTENSITY	INT8	R3000A: Number of Initially Configured Channels (SDCCH) (900/850 Cell)	B1275071817.C12 78469417	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_CFG_NUM_STATIC_EDGE_1800	INTENSITY	INT8	R3005B: Number of Initially Configured Channels (Static EDGE) (1800/1900 Cell)	B1275071817.C12 78469428	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_CFG_NUM_STATIC_EDGE_900	INTENSITY	INT8	R3005A: Number of Initially Configured	B1275071817.C12 78469427	Average	Average, hucsvbh, huctvbh,

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			Channels (Static EDGE) (900/850 Cell)			Maximum, Minimum, Sum
CH_CFG_NUM_STATIC_PDC_H_1800	INTENSITY	INT8	R3001B: Number of Initially Configured Channels (Static PDCH) (1800/1900 Cell)	B1275071817.C12 78469424	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_CFG_NUM_STATIC_PDC_H_900	INTENSITY	INT8	R3001A: Number of Initially Configured Channels (Static PDCH) (900/850 Cell)	B1275071817.C12 78469423	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_NUM_EDGE_1800_AVR	INTENSITY	FLOAT	AR3015B: Mean Number of Dynamically Configured Channels (EDGE) (1800/1900 Cell)	B1275071817.C12 78469467	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_NUM_EDGE_900_AVR	INTENSITY	FLOAT	AR3015A: Mean Number of Dynamically Configured Channels (EDGE) (900/850 Cell)	B1275071817.C12 78469466	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_NUM_FR_1800_AVR	INTENSITY	FLOAT	AR3017B: Mean Number of Dynamically Configured Channels (TCHF) (1800/1900 Cell)	B1275071817.C12 78469461	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_NUM_FR_900_AVR	INTENSITY	FLOAT	AR3017A: Mean Number of Dynamically Configured Channels (TCHF) (900/850 Cell)	B1275071817.C12 78469462	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum

00_AVR		T	n Number of Dynamically Configured Channels (TCHF) (900/850 Cell)	78469460		hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_NUM_HR_1800_AVR	INTENSITY	FLOAT	AR3018B:Mean Number of Dynamically Configured Channels (TCHH) (1800/1900 Cell)	B1275071817.C12 78469463	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_NUM_HR_900_AVR	INTENSITY	FLOAT	AR3018A:Mean Number of Dynamically Configured Channels (TCHH) (900/850 Cell)	B1275071817.C12 78469462	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_NUM_PDCH_1800_AVR	INTENSITY	FLOAT	AR3011B:Mean Number of Dynamically Configured Channels (PDCH) (1800/1900 Cell)	B1275071817.C12 78469465	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_NUM_PDCH_900_AVR	INTENSITY	FLOAT	AR3011A:Mean Number of Dynamically Configured Channels (PDCH) (900/850 Cell)	B1275071817.C12 78469464	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_NUM_SD_1800_AVR	INTENSITY	FLOAT	AR3010B:Mean Number of	B1275071817.C12 78469459	Average	Average, hucsvbh,

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			Dynamically Configured Channels (SDCCH) (1800/1900 Cell)			huctvbh, Maximum, Minimum, Sum
CH_NUM_SD_900_AVR	INTENSITY	FLOAT	AR3010A:Mean Number of Dynamically Configured Channels (SDCCH) (900/850 Cell)	B1275071817.C12 78469458	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
Dyn_conf_EDGE_1800_1900_Cell	ACCUMULATION	INTEGER	R3015B:Number of Dynamically Configured Channels (EDGE) (1800/1900 Cell)	B1275071817.C12 78469442	Sum	hucsvbh, huctvbh
Dyn_conf_PDCH_1800_1900_Cell	ACCUMULATION	INTEGER	R3011B:Number of Dynamically Configured Channels (PDCH) (1800/1900 Cell)	B1275071817.C12 78469440	Sum	hucsvbh, huctvbh
Dyn_conf_SDCCH_1800_1900_Cell	ACCUMULATION	INT8	R3010B:Number of Dynamically Configured Channels (SDCCH) (1800/1900 Cell)	B1275071817.C12 78469434	Sum	hucsvbh, huctvbh
Dyn_conf_SDCCH_900_850_Cell	ACCUMULATION	INT8	R3010A:Number of Dynamically Configured Channels (SDCCH)	B1275071817.C12 78469433	Sum	hucsvbh, huctvbh

			(900/850 Cell)			
Dyn_conf_TCHF_1800_1900_Cell	ACCUMULATION	INT8	R3017B: Number of Dynamically Configured Channels (TCHF) (1800/1900 Cell)	B1275071817.C12 78469436	Sum	hucsvbh, huctvbh
Dyn_conf_TCHH_1800_1900_Cell	ACCUMULATION	INT8	R3018B: Number of Dynamically Configured Channels (TCHH) (1800/1900 Cell)	B1275071817.C12 78469438	Sum	hucsvbh, huctvbh
Dyn_config_EDGE_900_850_Cell	ACCUMULATION	INTEGER	R3015A: Number of Dynamically Configured Channels (EDGE) (900/850 Cell)	B1275071817.C12 78469441	Sum	hucsvbh, huctvbh
Dyn_config_PDCH_900_850_Cell	ACCUMULATION	INTEGER	R3011A: Number of Dynamically Configured Channels (PDCH) (900/850 Cell)	B1275071817.C12 78469439	Sum	hucsvbh, huctvbh
Dyn_config_TCHF_900_850_Cell	ACCUMULATION	INT8	R3017A: Number of Dynamically Configured Channels (TCHF) (900/850 Cell)	B1275071817.C12 78469435	Sum	hucsvbh, huctvbh

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Dyn_config_TCHH_900_850_Cell	ACCUMULATION	INT8	R3018A: Number of Dynamically Configured Channels (TCHH) (900/850 Cell)	B1275071817.C12 78469437	Sum	hucsvbh, huctvbh
DynConfChan_EDGEOverlayCell	ACCUMULATION	INTEGER	R3038: Number of Dynamically Configured Channels (Support EDGE) (Overlay Cell)	B1275071817.C12 82411696	Sum	
DynConfChan_PDCH_Overlay_Cell	ACCUMULATION	INTEGER	R3037: Number of Dynamically Configured Channels (PDCH) (Overlay Cell)	B1275071817.C12 82411695	Sum	
DynConfChan_SDCCH_Overlay_Cell	ACCUMULATION	INTEGER	R3034: Number of Dynamically Configured Channels (SDCCH) (Overlay Cell)	B1275071817.C12 82411692	Sum	
DynConfChan_TCHF_Overlay_Cell	ACCUMULATION	INTEGER	R3035: Number of Dynamically Configured Channels (TCHF) (Overlay Cell)	B1275071817.C12 82411693	Sum	
DynConfChan_TCHH_Overlay_Cell	ACCUMULATION	INTEGER	R3036: Number of Dynamically Configured Channels (TCHH) (Overlay Cell)	B1275071817.C12 82411694	Sum	

### 7.9.41 Cell.Huawei.GSM.Channel\_configuration\_overview

Channel configuration overview

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CH_AV_NUM_PDCH_FRO M_DYN_PDC H_AVR	INTENSITY	FLOAT	CR3024:Mean Number of Available Channels (PDCHs Converted from Dynamic PDCHs)	B1275071817.C127 8469506	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_AVAIL_NUM_EDGE_A VR_OLCELL	INTENSITY	FLOAT	AR3035:Mean Number of Available Channels (Support EDGE) (Overlay Cell)	B1275071817.C128 2423939	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_AVAIL_NUM_EDGE_A VR	INTENSITY	FLOAT	CR3025:Mean Number of Available Channels (EDGE)	B1275071817.C127 8469504	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_AVAIL_NUM_FR_AVR _OLCELL	INTENSITY	FLOAT	AR3032:Mean Number of Available Channels (TCHF) (Overlay Cell)	B1275071817.C128 2423936	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_AVAIL_NUM_FR_AVR	INTENSITY	FLOAT	CR3027:Mean Number of	B1275071817.C127 8469501	Average	Average, hucsvbh,

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			Available Channels (TCHF)			huctvbh, Maximum, Minimum, Sum
CH_AVAIL_NUM_HR_AVR_OLCELL	INTENSITY	FLOAT	AR3033:Mean Number of Available Channels (TCHH) (Overlay Cell)	B1275071817.C1282423937	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_AVAIL_NUM_HR_AVR	INTENSITY	FLOAT	CR3028:Mean Number of Available Channels (TCHH)	B1275071817.C1278469502	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_AVAIL_NUM_PDCH_AVR_OLCELL	INTENSITY	FLOAT	AR3034:Mean Number of Available Channels (PDCH) (Overlay Cell)	B1275071817.C1282423938	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_AVAIL_NUM_PDCH_AVR	INTENSITY	FLOAT	CR3021:Mean Number of Available Channels (PDCH)	B1275071817.C1278469503	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_AVAIL_NUM_SD_AVR_OLCELL	INTENSITY	FLOAT	AR3031:Mean Number of Available Channels (SDCCH) (Overlay Cell)	B1275071817.C1282423935	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_AVAIL_NUM_SD_AVR	INTENSITY	FLOAT	CR3020:Mean Number of	B1275071817.C1278469499	Average	Average, hucsvbh,

			Available Channels (SDCCH)			huctvbh, Maximum, Minimum, Sum
CH_AVAIL_NUM_TCH_AVR	INTENSITY	FLOAT	CR302B:Mean Number of Available Channels (TCH)	B1275071817.C1278469500	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_AVAIL_NUM_TCH_FROM_DYN_PDCH_AVR	INTENSITY	FLOAT	CR3023:Mean Number of Available Channels (TCHs Converted from Dynamic PDCHs)	B1275071817.C1278469505	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_AVAIL_RATE_SD	INTENSITY	FLOAT	RR300:SDCCH Availability	B1275071817.C1278469482	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_AVAIL_RATE_TCH	INTENSITY	FLOAT	RR307:TCH Availability	B1275071817.C1278469483	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_CFG_NUM_CBCH	INTENSITY	INT8	CR3009:Number of Initially Configured Channels	B1275071817.C1278469492	Average	Average, hucsvbh, huctvbh, Maximum

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			(CBCH)			m, Minimum, Sum
CH_CFG_NUM_DYN_EDGE	INTENSITY	INT8	CR3006: Number of Initially Configured Channels (Dynamic EDGE)	B1275071817.C1278469491	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_CFG_NUM_DYN_PDCH_OLCELL	ACCUMULATION	INT8	R3033: Number of Initially Configured Channels (Dynamic PDCH) (Overlay Cell)	B1275071817.C1282411691	Sum	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_CFG_NUM_DYN_PDCH	INTENSITY	INT8	CR3002: Number of Initially Configured Channels (Dynamic PDCH)	B1275071817.C1278469489	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_CFG_NUM_FR_OLCELL	ACCUMULATION	INT8	R3030: Number of Initially Configured Channels (TCHF) (Overlay Cell)	B1275071817.C1282411688	Sum	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_CFG_NUM_FR	INTENSITY	INT8	CR3007: Number of Initially Configured Channels (TCHF)	B1275071817.C1278469486	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_CFG_NUM_HR_OLCELL	ACCUMULATION	INT8	R3031: Number of Initially Configured Channels	B1275071817.C1282411689	Sum	Average, hucsvbh, huctvbh, Maximum

			(TCHH) (Overlay Cell)			m, Minimum, Sum
CH_CFG_NUM_HR	INTENSITY	INT8	CR3008: Number of Initially Configured Channels (TCHH)	B1275071817.C127 8469487	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_CFG_NUM_SD_OLCELL	ACCUMULATION	INT8	R3029: Number of Initially Configured Channels (SDCCH) (Overlay Cell)	B1275071817.C128 2411687	Sum	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_CFG_NUM_SD	INTENSITY	INT8	CR3000: Number of Initially Configured Channels (SDCCH)	B1275071817.C127 8469484	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_CFG_NUM_STATIC_EDGE	INTENSITY	INT8	CR3005: Number of Initially Configured Channels (Static EDGE)	B1275071817.C127 8469490	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_CFG_NUM_STATIC_PDCH_OLCELL	ACCUMULATION	INT8	R3032: Number of Initially Configured Channels (Static PDCH) (Overlay Cell)	B1275071817.C128 2411690	Sum	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum

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CH_CFG_NUM_STATIC_PDCH	INTENSITY	INT8	CR3001: Number of Initially Configured Channels (Static PDCH)	B1275071817.C1278469488	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_CFG_NUM_TCH	INTENSITY	INT8	CR300B: Number of Initially Configured Channels (TCH)	B1275071817.C1278469485	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_NUM_EDGE_AVR_OLCELL	INTENSITY	FLOAT	AR3030: Mean Number of Dynamically Configured Channels (Support EDGE) (OLCELL)	B1275071817.C1282423934	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_NUM_EDGE_AVR	INTENSITY	FLOAT	CR3015: Mean Number of Dynamically Configured Channels (EDGE)	B1275071817.C1278469498	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_NUM_FR_AVR_OLCELL	INTENSITY	FLOAT	AR3027: Mean Number of Dynamically Configured Channels (TCHF) (OLCELL)	B1275071817.C1282423931	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_NUM_FR_AVR	INTENSITY	FLOAT	CR3017: Mean Number of Dynamically Configured Channels (TCHF)	B1275071817.C1278469495	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum

CH_NUM_HR_AVR_OLCELL	INTENSITY	FLOAT	AR3028:Mean Number of Dynamically Configured Channels (TCHH) (OLCELL)	B1275071817.C128 2423932	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_NUM_HR_AVR	INTENSITY	FLOAT	CR3018:Mean Number of Dynamically Configured Channels (TCHH)	B1275071817.C127 8469496	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_NUM_PD CH_AVR_OLCELL	INTENSITY	FLOAT	AR3029:Mean Number of Dynamically Configured Channels (PDCH) (OLCELL)	B1275071817.C128 2423933	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_NUM_PD CH_AVR	INTENSITY	FLOAT	CR3011:Mean Number of Dynamically Configured Channels (PDCH)	B1275071817.C127 8469497	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_NUM_SD_AVR_OLCELL	INTENSITY	FLOAT	AR3026:Mean Number of Dynamically Configured Channels (SDCCH) (OLCELL)	B1275071817.C128 2423930	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_NUM_SD_AVR	INTENSITY	FLOAT	CR3010:Mean Number of Dynamically	B1275071817.C127 8469493	Average	Average, hucsvbh, huctvbh,

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			Configured Channels (SDCCH)			Maximum, Minimum, Sum
CH_NUM_TCH_AVR	INTENSITY	FLOAT	CR301B:Mean Number of Dynamically Configured Channels (TCH)	B1275071817.C127 8469494	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum

### 7.9.42 Cell.Huawei.GSM.Channel\_conversion

Channel conversion

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CH_CONVERT_NUM_SD_TCH	ACCUMULATION	INT8	R3516B: Number of Channel Conversions (SDCCH-TCH)	B1275071818.C127 8470422	Sum	hucsvbh, huctvbh
CH_CONVERT_NUM_TCH_SD	ACCUMULATION	INT8	R3516A: Number of Channel Conversions (TCH-SDCCH)	B1275071818.C127 8470421	Sum	hucsvbh, huctvbh
CH_CONVERT_REQ_NUM_FR_TO_HR	ACCUMULATION	INT8	R3505A: Channel Conversion Requests (TCHF-TCHH)	B1275071818.C127 8470417	Sum	hucsvbh, huctvbh
CH_CONVERT_REQ_NUM_HR_TO_FR	ACCUMULATION	INT8	R3505B: Channel Conversion Requests (TCHH-TCHF)	B1275071818.C127 8470419	Sum	hucsvbh, huctvbh
CH_CONVERT_SUCC_NUM_FR_PDCH	ACCUMULATION	INT8	R3522B: Number of Successful Channel Conversions (TCHF to PDCH)	B1275071818.C127 8470426	Sum	hucsvbh, huctvbh

CH_CONVERT_SUCC_NUM_FR_TO_HR	ACCUMULATION	INT8	R3525A:Successful Channel Conversions (TCHF-TCHH)	B1275071818.C1278470418	Sum	hucsvbh, huctvbh
CH_CONVERT_SUCC_NUM_HR_FR	ACCUMULATION	INT8	R3525B:Successful Channel Conversions (TCHH-TCHF)	B1275071818.C1278470420	Sum	hucsvbh, huctvbh
CH_CONVERT_SUCC_NUM_HR_PDCH	ACCUMULATION	INT8	R3522A:Number of Successful Channel Conversions (TCHH to PDCH)	B1275071818.C1278470425	Sum	hucsvbh, huctvbh
CH_CONVERT_SUCC_NUM_PDCH_FR	ACCUMULATION	INT8	R3529B:Number of Successful Channel Conversions (PDCH to TCHF)	B1275071818.C1278470424	Sum	hucsvbh, huctvbh
CH_CONVERT_SUCC_NUM_PDCH_HR	ACCUMULATION	INT8	R3529A:Number of Successful Channel Conversions (PDCH to TCHH)	B1275071818.C1278470423	Sum	hucsvbh, huctvbh

### 7.9.43 Cell.Huawei.GSM.Channel\_state\_blocked

Blocked state for channels

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
Blked_SDCCH	ACCUMULATION	INTEGER	R3570:Number of Blocked Channels (SDCCH)	B1275071821.C1278473427	Sum	hucsvbh, huctvbh

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Blked_TCHF	ACCUMULATION	INTEGER	R3571: Number of Blocked Channels (TCHF)	B1275071821.C127 8473428	Sum	hucsvbh, huctvbh
Blked_TCHH	ACCUMULATION	INTEGER	R3572: Number of Blocked Channels (TCHH)	B1275071821.C127 8473429	Sum	hucsvbh, huctvbh
CH_BLOCK_NUM_FR_AVR	INTENSITY	FLOAT	AR3571: Mean Number of Blocked Channels (TCHF)	B1275071821.C127 8473447	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_BLOCK_NUM_HR_AVR	INTENSITY	FLOAT	AR3572: Mean Number of Blocked Channels (TCHH)	B1275071821.C127 8473448	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_BLOCK_NUM_SD_AVR	INTENSITY	FLOAT	AR3570: Mean Number of Blocked Channels (SDCCH)	B1275071821.C127 8473446	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum

#### 7.9.44 Cell.Huawei.GSM.Channel\_state\_utilisation

Channel state utilisation

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ATTS_SCAN_STATES	ACCUMULATION	INTEGER	R359: Number of Attempts to Scan Channels States	B1275071821.C12 78473433	Sum	hucsvbh, huctvbh
BUSY_HR_SV	ACCUMULATION	FLOAT	AR3561C: Num	B1275071821.C12	Sum	hucsvbh,

C_CHNL_TCH _OLSCCELL	TION	T	ber of Busy HR Service Channels(TCH ) (Overlaid Subcell)	82423823		huctvbh
BUSY_SC_TC HF_1800_1900 _CELL	ACCUMULA TION	INTEG ER	R3551B:Numb er of Busy Signaling Channels (TCHF) (1800/1900 Cell) .Obsolete in V900R011.	B1275071821.C12 78473424	Sum	hucsvbh, huctvbh
BUSY_SC_TC HF_900_850_C ELL	ACCUMULA TION	INTEG ER	R3551A:Numb er of Busy Signaling Channels (TCHF) (900/850 Cell) .Obsolete in V900R011.	B1275071821.C12 78473423	Sum	hucsvbh, huctvbh
BUSY_SC_TC HH_1800_1900 _CELL	ACCUMULA TION	INTEG ER	R3552B:Numb er of Busy Signaling Channels (TCHH) (1800/1900 Cell) .Obsolete in V900R011.	B1275071821.C12 78473426	Sum	hucsvbh, huctvbh
BUSY_SC_TC HH_900_850_ CELL	ACCUMULA TION	INTEG ER	R3552A:Numb er of Busy Signaling Channels (TCHH) (900/850 Cell) .Obsolete in V900R011.	B1275071821.C12 78473425	Sum	hucsvbh, huctvbh
Busy_SDCCH_	ACCUMULA	INTEG	R3550E:Numb	B1275071821.C12	Sum	hucsvbh,

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for_Short_msg_srvce	TION	ER	er of Busy SDCCH Channels for Short Message Service	78473464		huctvbh
Busy_SDCCH_for_Speech_srvce	ACCUMULATION	INTEGER	R3550D: Number of Busy SDCCH Channels for Speech Service	B1275071821.C12 78473463	Sum	hucsvbh, huctvbh
Busy_SDCCH_for_Unknown_srvce	ACCUMULATION	INTEGER	R3550G: Number of Busy SDCCH Channels for Unknown Service	B1275071821.C12 78473466	Sum	hucsvbh, huctvbh
Busy_SDCCH_for_USSD_srvce	ACCUMULATION	INTEGER	R3550F: Number of Busy SDCCH Channels for USSD Service	B1275071821.C12 78473465	Sum	hucsvbh, huctvbh
Busy_SigSDCCH_1800_1900_Cell	ACCUMULATION	INTEGER	R3550B: Number of Busy Signaling Channels (SDCCH) (1800/1900 Cell)	B1275071821.C12 78473418	Sum	hucsvbh, huctvbh
Busy_SigSDCCH_900_850_Cell	ACCUMULATION	INTEGER	R3550A: Number of Busy Signaling Channels (SDCCH) (900/850 Cell)	B1275071821.C12 78473417	Sum	hucsvbh, huctvbh
Busy_SigSDCCH	ACCUMULATION	INTEGER	R3550C: Number of Busy Signaling Channels (SDCCH)	B1275071821.C12 78473460	Sum	hucsvbh, huctvbh
Busy_SigTCHF_1800_1900_C	ACCUMULATION	INTEGER	R3553B: Number of Busy	B1275071821.C12 78473420	Sum	hucsvbh, huctvbh

ell			Signaling Channels (TCHF) (1800/1900 Cell)			
Busy_SigTCHF_900_850_Cell	ACCUMULATION	INTEGER	R3553A: Number of Busy Signaling Channels (TCHF) (900/850 Cell)	B1275071821.C12 78473419	Sum	hucsvbh, huctvbh
Busy_SigTCHF	ACCUMULATION	INTEGER	R3553C: Number of Busy Signaling Channels (TCHF)	B1275071821.C12 78473461	Sum	hucsvbh, huctvbh
Busy_SigTCHH_1800_1900_Cell	ACCUMULATION	INTEGER	R3554B: Number of Busy Signaling Channels (TCHH) (1800/1900 Cell)	B1275071821.C12 78473422	Sum	hucsvbh, huctvbh
Busy_SigTCHH_900_850_Cell	ACCUMULATION	INTEGER	R3554A: Number of Busy Signaling Channels (TCHH) (900/850 Cell)	B1275071821.C12 78473421	Sum	hucsvbh, huctvbh
Busy_SigTCHH_	ACCUMULATION	INTEGER	R3554C: Number of Busy Signaling Channels (TCHH)	B1275071821.C12 78473462	Sum	hucsvbh, huctvbh
Busy_TCHs_of_aid_sccl	ACCUMULATION	INTEGER	R3557: Number of Busy TCHs (Overlaid scell)	B1275071821.C12 78473434	Sum	hucsvbh, huctvbh

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Busy_TCHs_ulaid_scell	ACCUMULATION	INTEGER	R3558: Number of Busy TCHs (Underlaid scell)	B1275071821.C1278473435	Sum	hucsvbh, huctvbh
CH_BUSY_NUM_FR_SIG_1800_AVR	INTENSITY	FLOAT	AR3553B: Mean Number of Busy Signaling Channels (TCHF) (1800/1900 Cell)	B1275071821.C1278473439	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_BUSY_NUM_FR_SIG_900_AVR	INTENSITY	FLOAT	AR3553A: Mean Number of Busy Signaling Channels (TCHF) (900/850 Cell)	B1275071821.C1278473438	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_BUSY_NUM_FR_SIG_AVR	INTENSITY	FLOAT	CR3553: Mean Number of Busy Signaling Channels (TCHF)	B1275071821.C1278473455	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_BUSY_NUM_FR_TRAF_1800_AVR	INTENSITY	FLOAT	AR3551B: Mean Number of Busy TCHs (TCHF) (1800/1900 Cell)	B1275071821.C1278473443	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_BUSY_NUM_FR_TRAF_900_AVR	INTENSITY	FLOAT	AR3551A: Mean Number of Busy TCHs (TCHF) (900/850 Cell)	B1275071821.C1278473442	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_BUSY_NUM_FR_TRAF_AVR	INTENSITY	FLOAT	CR3551: Mean Number of Busy TCHs	B1275071821.C1278473457	Average	Average, hucsvbh, huctvbh,

			(TCHF)			Maximum, Minimum, Sum
CH_BUSY_NUM_HR_SIG_1800_AVR	INTENSITY	FLOAT	AR3554B:Mean Number of Busy Signaling Channels (TCHH) (1800/1900 Cell)	B1275071821.C1278473441	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_BUSY_NUM_HR_SIG_900_AVR	INTENSITY	FLOAT	AR3554A:Mean Number of Busy Signaling Channels (TCHH) (900/850 Cell)	B1275071821.C1278473440	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_BUSY_NUM_HR_SIG_AVR	INTENSITY	FLOAT	CR3554:Mean Number of Busy Signaling Channels (TCHH)	B1275071821.C1278473456	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_BUSY_NUM_HR_TRAF_1800_AVR	INTENSITY	FLOAT	AR3552B:Mean Number of Busy TCHs (TCHH) (1800/1900 Cell)	B1275071821.C1278473445	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_BUSY_NUM_HR_TRAF_900_AVR	INTENSITY	FLOAT	AR3552A:Mean Number of Busy TCHs (TCHH) (900/850 Cell)	B1275071821.C1278473444	Average	Average, hucsvbh, huctvbh, Maximum, Minimum

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						m, Sum
CH_BUSY_NUM_HR_TRAF_AVR	INTENSITY	FLOAT	CR3552:Mean Number of Busy TCHs (TCHH)	B1275071821.C1278473458	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_BUSY_NUM_SD_1800_AVR	INTENSITY	FLOAT	AR3550B:Mean Number of Busy Signaling Channels (SDCCH) (1800/1900 Cell)	B1275071821.C1278473437	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_BUSY_NUM_SD_900_AVR	INTENSITY	FLOAT	AR3550A:Mean Number of Busy Signaling Channels (SDCCH) (900/850 Cell)	B1275071821.C1278473436	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_BUSY_NUM_SD_AVR	INTENSITY	FLOAT	CR3550:Mean Number of Busy Signaling Channels (SDCCH)	B1275071821.C1278473454	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_BUSY_NUM_TRAF_OLAVR	INTENSITY	FLOAT	AR3557:Mean Number of Busy TCHs (Overlaid Subcell)	B1275071821.C1278473452	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_BUSY_NUM_TRAF_ÜLAVR	INTENSITY	FLOAT	AR3558:Mean Number of Busy TCHs (Underlaid Subcell)	B1275071821.C1278473453	Average	Average, hucsvbh, huctvbh, Maximum, Minimum

						m, Sum
CH_IDLE_NUM_FR_AVR	INTENSITY	FLOAT	AR3581:Mean Number of Idle Channels (TCHF)	B1275071821.C12 78473450	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_IDLE_NUM_HR_AVR	INTENSITY	FLOAT	AR3582:Mean Number of Idle Channels (TCHH)	B1275071821.C12 78473451	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_IDLE_NUM_SD_AVR	INTENSITY	FLOAT	AR3580:Mean Number of Idle Channels (SDCCH)	B1275071821.C12 78473449	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_SD_STATE_SAMPLE_NUMBER	ACCUMULATION	INTEGER	R3590:Number of Attempts to Scan SDCCH States	B1275071821.C12 78473459	Sum	hucsvbh, huctvbh
CHAN_BUSY_NUM_TCHF_AMR_TRAFFIC	ACCUMULATION	INTEGER	R3551C:Busy Number of AMR Service Channel (TCHF)	B1275071821.C12 78473474	Sum	hucsvbh, huctvbh
CHAN_BUSY_NUM_TCHH_AMR_TRAFFIC	ACCUMULATION	INTEGER	R3552C:Busy Number of AMR Service Channel (TCHH)	B1275071821.C12 78473475	Sum	hucsvbh, huctvbh
Idle_SDCCH	ACCUMULATION	INTEGER	R3580:Number	B1275071821.C12	Sum	hucsvbh,

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	TION	ER	of Idle Channels (SDCCH)	78473430		huctvbh
Idle_TCHF	ACCUMULATION	INTEGER	R3581: Number of Idle Channels (TCHF)	B1275071821.C12 78473431	Sum	hucsvbh, huctvbh
Idle_TCHH	ACCUMULATION	INTEGER	R3582: Number of Idle Channels (TCHH)	B1275071821.C12 78473432	Sum	hucsvbh, huctvbh
RATE_TCH_BCCH_TRX_BUSY_STT	INTENSITY	FLOAT	AR3555B: Rate of TCHs on BCCH TRX in Busy State	B1275071821.C12 78473485	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
RATE_TCH_BUSY_STT	INTENSITY	FLOAT	AR3555A: Rate of TCHs in Busy State	B1275071821.C12 78473484	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
RATE_TCH_NONBCCH_TRX_BUSY_STT	INTENSITY	FLOAT	AR3555C: Rate of TCHs on Non-BCCH TRX in Busy State	B1275071821.C12 78473486	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
TCH_AVL_FOR_USE	ACCUMULATION	INT8	AR3552J: Number of TCHs Available for Use	B1275071821.C12 78473481	Sum	hucsvbh, huctvbh
TCH_BCCH_TRX_AVL_FOR_USE	ACCUMULATION	INT8	AR3552H: Number of TCHs on BCCH TRX Available for Use	B1275071821.C12 78473482	Sum	hucsvbh, huctvbh

TCH_BCCH_TRX_BUSY_STATE	ACCUMULATION	INT8	AR3552E: Number of TCHs on BCCH TRX in Busy State	B1275071821.C1278473479	Sum	hucsvbh, huctvbh
TCH_BUSY_STATE	ACCUMULATION	INT8	AR3552D: Number of TCHs in Busy State	B1275071821.C1278473478	Sum	hucsvbh, huctvbh
TCH_NONBCCH_TRX_AVL_FOR_USE	ACCUMULATION	INT8	AR3552L: Number of TCHs on Non-BCCH TRX Available for Use	B1275071821.C1278473483	Sum	hucsvbh, huctvbh
TCH_NONBCCH_TRX_BUSY_STATE	ACCUMULATION	INT8	AR3552F: Number of TCHs on Non-BCCH TRX in Busy State	B1275071821.C1278473480	Sum	hucsvbh, huctvbh

### 7.9.45 Cell.Huawei.GSM.Channel\_state\_volume

Traffic volume for various channels

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CHAN_BUSY_NUM_TCHF_AMR_TRAF_AVE	INTENSITY	FLOAT	AR3551C: Traffic Volume on AMR TCHFs	B1275071821.C1278473476	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CHAN_BUSY_NUM_TCHH_AMR_TRAF_AVE	INTENSITY	FLOAT	AR3552C: Traffic Volume on AMR TCHHs	B1275071821.C1278473477	Average	Average, hucsvbh, huctvbh, Maximum, Minimum

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						m, Sum
RATE_CALL_DROP	INTENSITY	FLOAT	ZTR308:Traffic Call Drop Ratio per cell	B1275071821.C1278473473	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
SD_CH_TRAF_ERL_NOT_CERTAIN	INTENSITY	FLOAT	R3550L:Traffic Volume of Unknown Service on SDCCH	B1275071821.C1278473470	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
SD_CH_TRAF_ERL_SMS	INTENSITY	FLOAT	R3550I:Traffic Volume of Short Message Service on SDCCH	B1275071821.C1278473468	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
SD_CH_TRAF_ERL_SPEECH	INTENSITY	FLOAT	R3550H:Traffic Volume of Speech Service on SDCCH	B1275071821.C1278473467	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
SD_CH_TRAF_ERL_USSD	INTENSITY	FLOAT	R3550J:Traffic Volume of USSD Service on SDCCH	B1275071821.C1278473469	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
SIG_CH_TRAF_SD	INTENSITY	FLOAT	R3550M:Traffic Volume on Signaling Channels (SDCCH)	B1275071821.C1278473471	Average	Average, hucsvbh, huctvbh, Maximum, Minimum

						m, Sum
SIG_CH_TRAF_TCH	INTENSITY	FLOAT	R3550N:Traffic Volume on Signaling Channels (TCH)	B1275071821.C1278473472	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
TRAF_VOL_ON_AMR_TCHF_OLSCCELL	INTENSITY	FLOAT	AR3559C:Traffic Volume on AMR TCHFs (Overlaid Subcell)	B1275071821.C1282423819	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
TRAF_VOL_ON_AMR_TCHH_OLSCCELL	INTENSITY	FLOAT	AR3560C:Traffic Volume on AMR TCHHs (Overlaid Subcell)	B1275071821.C1282423822	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
TRAF_VOL_ON_EFR_TCHS_OLSCCELL	INTENSITY	FLOAT	AR3558C:Traffic Volume on EFR TCHs (Overlaid Subcell)	B1275071821.C1282423821	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
TRAF_VOL_ON_EFR_TCHS	INTENSITY	FLOAT	AR3557C:Traffic Volume on EFR TCHs	B1275071821.C1282423820	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
TRAF_VOL_ON_WBAMR_TC	INTENSITY	FLOAT	AR3556C:Traffic Volume on	B1275071821.C1282423817	Average	Average, hucsvbh,

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HF			WBAMR TCHF's			huctvbh, Maximum, Minimum, Sum
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#### 7.9.46 Cell.Huawei.GSM.Connect\_Mgmt\_Signal\_per\_Cell

Connect Management Signal Measurement per Cell

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
Number_of_Call_Alertings	ACCUMULATION	INTEGER	A3200: Number of Call Alertings	B1290823470.C1282429849	Sum	
Number_of_Put_Throughs	ACCUMULATION	INTEGER	A3201: Number of Put-Throughs	B1290823470.C1282429850	Sum	

#### 7.9.47 Cell.Huawei.GSM.DL\_GPRS\_RLC\_data\_transfer\_cap

Downlink GPRS Release Complete data transfer capability

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
DL_GPRS_TOTAL_TBF	ACCUMULATION	INT8	L9120: Total Number of Downlink GPRS TBFs	B1275072526.C1279178436	Sum	hucedvbh, hucgdvbh
DOWN_CS1_RLC_BLK_RESEND_RATE	INTENSITY	FLOAT	RL9110: Retransmission Rate of RLC Downlink Data Block Using CS1 (%)	B1275072526.C1279178426	Average	Average, hucedvbh, hucgdvbh, Maximum, Minimum, Sum
DOWN_CS1_RLC_BLK_VALID	ACCUMULATION	INT8	L9106: Total Number of	B1275072526.C1279178422	Sum	hucedvbh,

D_TOTAL			Valid RLC Downlink Data Blocks Using CS1			hucgdv h
DOWN_CS1_RLC_BLK	ACCUMULATION	INT8	L9102:Total Number of Downlink RLC Data Blocks Using CS1	B1275072526.C12 79178418	Sum	hucdv h, hucgdv h
DOWN_CS2_RLC_BLK_RESEND_RATE	INTENSITY	FLOAT	RL9111:Retransmission Rate of RLC Downlink Data Block Using CS2 (%)	B1275072526.C12 79178427	Average	Average, hucdv h, hucgdv h, Maximum, Minimum, Sum
DOWN_CS2_RLC_BLK_VALID_TOTAL	ACCUMULATION	INT8	L9107:Total Number of Valid RLC Downlink Data Blocks Using CS2	B1275072526.C12 79178423	Sum	hucdv h, hucgdv h
DOWN_CS2_RLC_BLK	ACCUMULATION	INT8	L9103:Total Number of Downlink RLC Data Blocks Using CS2	B1275072526.C12 79178419	Sum	hucdv h, hucgdv h
DOWN_CS3_RLC_BLK_RESEND_RATE	INTENSITY	FLOAT	RL9112:Retransmission Rate of RLC Downlink Data Block Using CS3 (%)	B1275072526.C12 79178428	Average	Average, hucdv h, hucgdv h, Maximum, Minimum, Sum

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DOWN_CS3_RLC_BLK_VALID_TOTAL	ACCUMULATION	INT8	L9108:Total Number of Valid RLC Downlink Data Blocks Using CS3	B1275072526.C12 79178424	Sum	hucdvb h, hucgdv b h
DOWN_CS3_RLC_BLK	ACCUMULATION	INT8	L9104:Total Number of Downlink RLC Data Blocks Using CS3	B1275072526.C12 79178420	Sum	hucdvb h, hucgdv b h
DOWN_CS4_RLC_BLK_RESEND_RATE	INTENSITY	FLOAT	RL9113:Retran smission Rate of RLC Downlink Data Block Using CS4 (%)	B1275072526.C12 79178429	Average	Average, hucdvb h, hucgdv b h, Maximu m, Minimu m, Sum
DOWN_CS4_RLC_BLK_VALID_TOTAL	ACCUMULATION	INT8	L9109:Total Number of Valid RLC Downlink Data Block Using CS4	B1275072526.C12 79178425	Sum	hucdvb h, hucgdv b h
DOWN_CS4_RLC_BLK	ACCUMULATION	INT8	L9105:Total Number of Downlink RLC Data Blocks Using CS4	B1275072526.C12 79178421	Sum	hucdvb h, hucgdv b h
DOWN_GPRS_TBF_CS_DEGRADE	ACCUMULATION	INT8	L9117:Number of CS Degrades on Downlink GPRS TBF	B1275072526.C12 79178433	Sum	hucdvb h, hucgdv b h
DOWN_GPRS_TBF_CS_UPGRADE	ACCUMULATION	INT8	L9116:Number of CS Upgrades on Downlink GPRS TBF	B1275072526.C12 79178432	Sum	hucdvb h, hucgdv b h
DOWN_RLC_AVG_THRPUT_	INTENSITY	FLOAT	TL9114:Averag e Throughput of	B1275072526.C12 79178430	Average	Average, hucdvb

RATE			Downlink GPRS RLC (kbit/s)			h, hucgdvb h, Maximum, Minimum, Sum
DOWN_RLC_BLOCK_TOTAL	ACCUMULATION	INT8	L9101:Total Number of Downlink GPRS RLC Data Blocks	B1275072526.C12 79178417	Sum	hucgdvb h
DOWN_RLC_NULL_BLK	ACCUMULATION	INT8	L9119:Number of Downlink GPRS RLC Dummy Blocks	B1275072526.C12 79178435	Sum	hucgdvb h, hucgdvb h
DOWN_RLC_SINGLE_TBF_AVG_THRPUT	INTENSITY	FLOAT	TL9115:Average Payload of Single Downlink GPRS TBF (KB)	B1275072526.C12 79178431	Average	Average, hucgdvb h, hucgdvb h, Maximum, Minimum, Sum
DOWN_RLC_SIGN_BLK	ACCUMULATION	INT8	L9118:Number of Downlink GPRS RLC Control Blocks	B1275072526.C12 79178434	Sum	hucgdvb h, hucgdvb h
RETRANS_RATE_RLC_DATA_BLK	INTENSITY	FLOAT	RL9122:Retransmission Rate of Downlink GPRS RLC Data Blocks	B1275072526.C12 79178438	Average	hucgdvb h, hucgdvb h, Sum, Minimum, Maximum
THROUGHPUT	INTENSITY	FLOAT	TL9123:Throug	B1275072526.C12	Average	hucgdvb

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_RLC_DATA_BLOCK		T	Input of Downlink GPRS RLC Data Blocks	79178439		h, hucgdvbh, Sum, Minimum, Maximum
TOT_DUR_DL_GPRS_TBF	ACCUMULATION	INT8	L9121:Total Duration of Downlink GPRS TBFs (s)	B1275072526.C1279178437	Sum	hucgdvbh, hucgdvbh
TOT_V_DL_CS_RLC	ACCUMULATION	INT8	Total Number of Valid RLC Downlink Data Blocks Using CS	B1275072526.C1279178422 + C1279178423 + C1279178424 + C1279178425	Sum	hucgdvbh, hucgdvbh

#### 7.9.48 Cell.Huawei.GSM.DL\_GPRS\_TBF\_estab\_and\_RLS\_cap

Downlink GPRS TBF establishment and release capability

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
DL_ABNRM_REL_ABIS_RELS_PREEMPT	ACCUMULATION	INT8	A9138:Number of Abnormal Downlink GPRS TBF Releases due to Abis Resource Preemption	B1275072522.C1282411781	Sum	hucgdvbh, hucgdvbh
DL_ABNRM_REL_CS_HO	ACCUMULATION	INT8	A9137:Number of Abnormal downlink GPRS TBF Releases due to CS Handover	B1275072522.C1279174453	Sum	hucgdvbh, hucgdvbh
DL_ABNRM_REL_EGPRS_USER_ACS	ACCUMULATION	INT8	A9132:Number of Abnormal Downlink GPRS TBF Releases	B1275072522.C1279174448	Sum	hucgdvbh, hucgdvbh

			Because of EGPRS User Access			
DL_ESTB_FAIL_OTH_FLOW_CTRL	ACCUMULATION	INTEGER	A9121: Number of Failed Downlink GPRS TBF Establishments due to other cause(flow ctrl) .Obsolete in V900R011.	B1275072522.C12 79174437	Sum	hucdvb h, hucgdv h
DL_ESTB_FAIL_OTH_GRRM_REL_RQ	ACCUMULATION	INTEGER	A9120: Number of Failed Downlink GPRS TBF Establishments due to other cause(GRRM tbf rel req) .Obsolete in V900R011.	B1275072522.C12 79174436	Sum	hucdvb h, hucgdv h
DL_ESTB_FAIL_OTH_GRRM_RES_REJ	ACCUMULATION	INTEGER	A9119: Number of Failed Downlink GPRS TBF Establishments due to other cause(GRRM dl res rej) .Obsolete in V900R011.	B1275072522.C12 79174435	Sum	hucdvb h, hucgdv h
DL_ESTB_FAIL_OTH_INCONS	ACCUMULATION	INTEGER	A9123: Number of Failed Downlink GPRS TBF Establishments due to other cause(state	B1275072522.C12 79174439	Sum	hucdvb h, hucgdv h

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			inconsistent) .Obsolete in V900R011.			
DL_ESTB_FAIL_OTH_INTR_A_REL	ACCUMULATION	INTEGER	A9122: Number of Failed Downlink GPRS TBF Establishments due to other cause(intra rel) .Obsolete in V900R011.	B1275072522.C12 79174438	Sum	hucdvb h, hucgdvb h
DL_ESTB_FAIL_OTH_MS_RESP_RASG	ACCUMULATION	INTEGER	A9136: Number of Failed Downlink GPRS TBF Establishments due to Other Causes (MS Responding with Resource Assignment Failure) .Obsolete in V900R011.	B1275072522.C12 79174452	Sum	hucdvb h, hucgdvb h
DL_ESTB_FAIL_OTH_MS_SEND_RASG	ACCUMULATION	INTEGER	A9135: Number of Failed Downlink GPRS TBF Establishments due to Other Causes (MSIP Sending Resource Assignment Fails) .Obsolete in V900R011.	B1275072522.C12 79174451	Sum	hucdvb h, hucgdvb h
DL_ESTB_FAIL_OTH_MSG_ERR	ACCUMULATION	INTEGER	A9126: Number of Failed Downlink GPRS TBF Establishments due to other	B1275072522.C12 79174442	Sum	hucdvb h, hucgdvb h

			cause(msg err) .Obsolete in V900R011.			
DL_ESTB_FAIL_OTH_Q_FULL	ACCUMULATION	INTEGER	A9127: Number of Failed Downlink GPRS TBF Establishments due to other cause(ass queue full) .Obsolete in V900R011.	B1275072522.C12 79174443	Sum	hucdvb h, hucgdv h
DL_ESTB_FAIL_OTH_RASS_FAIL	ACCUMULATION	INTEGER	A9124: Number of Failed Downlink GPRS TBF Establishments due to other cause(res ass fail) .Obsolete in V900R011.	B1275072522.C12 79174440	Sum	hucdvb h, hucgdv h
DL_ESTB_FAIL_OTH_RES_FAIL	ACCUMULATION	INTEGER	A9128: Number of Failed Downlink GPRS TBF Establishments due to other cause(res reass fail) .Obsolete in V900R011.	B1275072522.C12 79174444	Sum	hucdvb h, hucgdv h
DL_ESTB_FAIL_OTH_T3191_TO	ACCUMULATION	INTEGER	A9125: Number of Failed Downlink GPRS TBF Establishments due to other cause(T3191 timeout) .Obsolete in	B1275072522.C12 79174441	Sum	hucdvb h, hucgdv h

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			V900R011.			
DL_GPRS_TBF_AB_REL_OTH_FLOW_CTRL	ACCUMULATION	INTEGER	A9129: Number of Downlink GPRS TBF Abnormal Releases due to other cause(flow ctrl) .Obsolete in V900R011.	B1275072522.C1279174445	Sum	hucedvbh, hucgdvbh
DL_GPRS_TBF_AB_REL_OTH_GRRM_REL_REQ	ACCUMULATION	INTEGER	A9131: Number of Downlink GPRS TBF Abnormal Releases due to other cause(grm tbf rel req) .Obsolete in V900R011.	B1275072522.C1279174447	Sum	hucedvbh, hucgdvbh
DL_GPRS_TBF_AB_REL_OTH_INTRA_REL	ACCUMULATION	INTEGER	A9130: Number of Downlink GPRS TBF Abnormal Releases due to other cause(intra rel) .Obsolete in V900R011.	B1275072522.C1279174446	Sum	hucedvbh, hucgdvbh
DL_GPRS_TBF_AB_NORM_REL_NO_CHANNEL_RES	ACCUMULATION	INT8	A9109: Number of Downlink GPRS TBF Abnormal Releases due to No Channel	B1275072522.C1279174425	Sum	hucedvbh, hucgdvbh
DL_GPRS_TBF_AB_NORM_REL_SUSPEND	ACCUMULATION	INT8	A9107: Number of Downlink GPRS TBF Abnormal Releases due to SUSPEND	B1275072522.C1279174423	Sum	hucedvbh, hucgdvbh
DL_GPRS_TB	ACCUMULATION	INT8	A9106: Number	B1275072522.C12	Sum	hucedvb

F_ABNRM_RELEASE_N3105_OVERFLOW	TION		of Downlink GPRS TBF Abnormal Releases due to N3105 Overflow	79174422		h, hucgdvb h
DL_GPRS_TBF_ABNRM_RELEASE_OTH_CAUSE	ACCUMULATION	INT8	A9117: Number of Downlink GPRS TBF Abnormal Releases due to other cause	B1275072522.C12 79174433	Sum	hucgdvb h, hucgdvb h
DL_GPRS_TBF_ABNRM_RELEASE_PREEMPT	ACCUMULATION	INT8	A9116: Number of Downlink GPRS TBF Abnormal Releases due to channel preempt	B1275072522.C12 79174432	Sum	hucgdvb h, hucgdvb h
DL_GPRS_TBF_ESTB_FAIL_MS_NO_RESPONSE	ACCUMULATION	INT8	A9104: Number of Failed Downlink GPRS TBF Establishments due to MS No Response	B1275072522.C12 79174420	Sum	hucgdvb h, hucgdvb h
DL_GPRS_TBF_ESTB_FAIL_NO_CHANNEL_RESPONSE	ACCUMULATION	INT8	A9103: Number of Failed Downlink GPRS TBF Establishments due to No Channel	B1275072522.C12 79174419	Sum	hucgdvb h, hucgdvb h
DL_GPRS_TBF_ESTB_FAIL_OTH_CAUSE	ACCUMULATION	INT8	A9115: Number of Failed Downlink GPRS TBF Establishments	B1275072522.C12 79174431	Sum	hucgdvb h, hucgdvb h

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			due to other cause			
DL_GPRS_TRANS_INTERRUPT_TIMES	ACCUMULATION	INT8	A9118: Number of Downlink GPRS intermit transfers	B1275072522.C1279174434	Sum	hucedvbh, hucgdvvh
DL_MOVE_EGPRS_USER_ACCESS	ACCUMULATION	INT8	A9133: Number of Downlink GPRS TBF Movements Because of EGPRS User Access	B1275072522.C1279174449	Sum	hucedvbh, hucgdvvh
DOWN_GPRS_TBF_ABNORMAL_REL_FLUSH	ACCUMULATION	INT8	A9108: Number of Downlink GPRS TBF Abnormal Releases due to FLUSH	B1275072522.C1279174424	Sum	hucedvbh, hucgdvvh
DOWN_GPRS_TBF_AVG_NUMBER	INTENSITY	FLOAT	AA9112: Average Number of Concurrent Downlink GPRS TBFs	B1275072522.C1279174428	Average	Average, hucedvbh, hucgdvvh, Maximum, Minimum, Sum
DOWN_GPRS_TBF_AVG_TIME	INTENSITY	FLOAT	AA9114: Average Duration of Downlink GPRS TBF (s)	B1275072522.C1279174430	Average	Average, hucedvbh, hucgdvvh, Maximum, Minimum, Sum
DOWN_GPRS_TBF_ESTB_ATMP	ACCUMULATION	INT8	A9101: Number of Downlink GPRS TBF Establishment Attempts	B1275072522.C1279174417	Sum	hucedvbh, hucgdvvh

DOWN_GPRS_TBF_ESTB_SUCC	ACCUMULATION	INT8	A9102: Number of Successful Downlink GPRS TBF Establishments	B1275072522.C1279174418	Sum	hucedvbh, hucgdvbh
DOWN_GPRS_TBF_NORMAL_REL	ACCUMULATION	INT8	A9105: Number of Downlink GPRS TBF Normal Releases	B1275072522.C1279174421	Sum	hucedvbh, hucgdvbh
DOWN_GPRS_TBF_SAMPLE_TIMES	ACCUMULATION	INT8	A9111: Sampling Times of Concurrent Downlink GPRS TBFs	B1275072522.C1279174427	Sum	hucedvbh, hucgdvbh
DOWN_GPRS_TBF_TOTAL_SAMPLE_NUM	ACCUMULATION	INT8	A9110: Total Number of Sampled Concurrent Downlink GPRS TBFs	B1275072522.C1279174426	Sum	hucedvbh, hucgdvbh
DOWN_GPRS_TBF_TOTAL_TIME	ACCUMULATION	INT8	A9113: Total Duration of Downlink GPRS TBF (ms)	B1275072522.C1279174429	Sum	hucedvbh, hucgdvbh
MAX_SMPL_DL_NUM	INTENSITY	INT8	A9134: Maximum Number of Sampled Concurrent Downlink GPRS TBFs	B1275072522.C1279174450	Average	hucedvbh, hucgdvbh, Sum, Minimum, Maximum

**7.9.49 Cell.Huawei.GSM.DL\_llc\_data\_transfer\_capability**

DL LL data transfer capability

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KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
AVG_THRUP_EGPRS_BKGND_LLC_PDU	INTENSITY	FLOAT	AL9523:Average Throughput of Downlink EGPRS Background Service LLC PDU (kbit/s)	B1275072532.C1279184439	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
AVG_THRUP_EGPRS_THP1_LLC_LAYER	INTENSITY	FLOAT	AL9524:Average Throughput of Downlink EGPRS Interactive Service at THP1 LLC Layer (kbit/s)	B1275072532.C1279184440	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
AVG_THRUP_EGPRS_THP2_LLC_LAYER	INTENSITY	FLOAT	AL9543:Average Throughput of Downlink EGPRS Interactive Service at THP2 LLC Layer (kbit/s)	B1275072532.C1279184459	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
AVG_THRUP_EGPRS_THP3_LLC_LAYER	INTENSITY	FLOAT	AL9544:Average Throughput of Downlink EGPRS Interactive Service at THP3 LLC Layer (kbit/s)	B1275072532.C1279184460	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
AVG_THRUP_GPRS_BKGND_LLC_PDU	INTENSITY	FLOAT	AL9521:Average Throughput of Downlink GPRS Background Service LLC PDU (kbit/s)	B1275072532.C1279184437	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
AVG_THRUP_	INTENSITY	FLOA	AL9522:Avera	B1275072532.C12	Average	hucsvbh,

GPRS_THP1_LLC_LAYER		T	Average Throughput of Downlink GPRS Interactive Service THP1 LLC Layer (kbit/s)	79184438		huctvbh, Sum, Minimum, Maximum
AVG_THRUP_GPRS_THP2_LLC_LAYER	INTENSITY	FLOAT	AL9541: Average Throughput of Downlink GPRS Interactive Service at THP2 LLC Layer (kbit/s)	B1275072532.C12 79184457	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
AVG_THRUP_GPRS_THP3_LLC_LAYER	INTENSITY	FLOAT	AL9542: Average Throughput of Downlink GPRS Interactive Service at THP3 LLC Layer (kbit/s)	B1275072532.C12 79184458	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
DL_TBF_TOTAL	ACCUMULATION	INT8	L9501: Total Number of Downlink TBFs	B1275072532.C12 79184417	Sum	hucsvbh, huctvbh
DOWN_LLC_PDU_AVG_LEN	INTENSITY	FLOAT	AL9504: Average Length of Downlink LLC PDUs	B1275072532.C12 79184420	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
DOWN_LLC_PDU_FLUSH_DISCARD	ACCUMULATION	INT8	L9509: Number of Downlink LLC PDUs Discarded due to FLUSH	B1275072532.C12 79184425	Sum	hucsvbh, huctvbh

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DOWN_LLCPDU_TIMEOUT_DISCARD	ACCUMULATION	INT8	L9508: Number of Downlink LLC PDUs Discarded due to Timeout	B1275072532.C12 79184424	Sum	hucsvbh, huctvbh
DOWN_TBF_AVG_TX_BYTE	INTENSITY	FLOAT	AL9507: Average LLC PDU Bytes per Downlink TBF	B1275072532.C12 79184423	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
LLC_DOWNLINK_THRUP_RATE	INTENSITY	FLOAT	TL9510: Downlink LLC Throughput Rate (kbit/s)	B1275072532.C12 79184426	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
MAX_THRUP_EGPRS_USERS_LLCPDU	INTENSITY	INT8	L9532: Maximum Downlink Throughput of EGPRS Users LLC PDU (kbit/s)	B1275072532.C12 79184448	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
MAX_THRUP_GPRS_USERS_LLCPDU	INTENSITY	INT8	L9531: Maximum Downlink Throughput of GPRS Users LLC PDU (kbit/s)	B1275072532.C12 79184447	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
RX_DOWN_LLCPDU_TOTAL_BYTE	ACCUMULATION	INT8	L9503: Total Bytes of Downlink LLC PDUs Received	B1275072532.C12 79184419	Sum	hucsvbh, huctvbh
RX_DOWN_LLCPDU	ACCUMULATION	INT8	L9502: Total Number of Downlink LLC PDUs Received	B1275072532.C12 79184418	Sum	hucsvbh, huctvbh

THRUP_EGPRS_BKGNД_LLС_PDU	INTENSITY	INT8	L9519:Through put of Downlink EGPRS Background Service LLC PDU	B1275072532.C12 79184435	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
THRUP_EGPRS_THP1_LLС_PDU	INTENSITY	INT8	L9520:Through put of Downlink EGPRS Interactive Service THP1 LLC PDU	B1275072532.C12 79184436	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
THRUP_EGPRS_THP2_LLС_PDU	INTENSITY	INT8	L9539:Through put of Downlink EGPRS Interactive Service THP2 LLC PDU	B1275072532.C12 79184455	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
THRUP_EGPRS_THP3_LLС_PDU	INTENSITY	INT8	L9540:Through put of Downlink EGPRS Interactive Service THP3 LLC PDU	B1275072532.C12 79184456	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
THRUP_EGPRS_USERS_LLС_PDU_KBITS	INTENSITY	FLOAT	AL9530:Downlink Throughput of EGPRS Users LLC PDU (kbit/s)	B1275072532.C12 79184446	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
THRUP_EGPRS_USERS_LLС_PDU	INTENSITY	INT8	L9528:Through put of Downlink	B1275072532.C12 79184444	Average	hucsvbh, huctvbh, Sum,

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			EGPRS Users LLC PDU			Minimum, Maximum
THRUP_GPRS_ BKGND_LLC_P DU	INTENSITY	INT8	L9517:Through put of Downlink GPRS Background Service LLC PDU	B1275072532.C12 79184433	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
THRUP_GPRS_ THP1_LLC_PD U	INTENSITY	INT8	L9518:Through put of Downlink GPRS Interactive Service THP1 LLC PDU	B1275072532.C12 79184434	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
THRUP_GPRS_ THP2_LLC_PD U	INTENSITY	INT8	L9537:Through put of Downlink GPRS Interactive Service THP2 LLC PDU	B1275072532.C12 79184453	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
THRUP_GPRS_ THP3_LLC_PD U	INTENSITY	INT8	L9538:Through put of Downlink GPRS Interactive Service THP3 LLC PDU	B1275072532.C12 79184454	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
THRUP_GPRS_ USERS_LLC_P DU_KBITS	INTENSITY	FLOA T	AL9529:Downl ink Throughput of GPRS Users LLC PDU (kbit/s)	B1275072532.C12 79184445	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
THRUP_GPRS_ USERS_LLC_P DU	INTENSITY	INT8	L9526:Through put of Downlink	B1275072532.C12 79184442	Average	hucsvbh, huctvbh, Sum,

			GPRS Users LLC PDU			Minimum, Maximum
TOT_BYTE_EGPRS_THP2_LLC_PDU_TX	ACCUMULATION	INT8	L9535:Total Bytes of Downlink EGPRS Interactive Service THP2 LLC PDUs Sent	B1275072532.C12 79184451	Sum	hucsvbh, huctvbh
TOT_BYTE_EGPRS_THP3_LLC_PDU_TX	ACCUMULATION	INT8	L9536:Total Bytes of Downlink EGPRS Interactive Service THP3 LLC PDUs Sent	B1275072532.C12 79184452	Sum	hucsvbh, huctvbh
TOT_BYTE_EGPRS_USERS_LLC_PDU	ACCUMULATION	INT8	L9527:Total Bytes of Downlink EGPRS Users LLC PDU	B1275072532.C12 79184443	Sum	hucsvbh, huctvbh
TOT_BYTE_GPRS_THP2_LLC_PDU_TX	ACCUMULATION	INT8	L9533:Total Bytes of Downlink GPRS Interactive Service THP2 LLC PDUs Sent	B1275072532.C12 79184449	Sum	hucsvbh, huctvbh
TOT_BYTE_GPRS_THP3_LLC_PDU_TX	ACCUMULATION	INT8	L9534:Total Bytes of Downlink GPRS Interactive	B1275072532.C12 79184450	Sum	hucsvbh, huctvbh

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			Service THP3 LLC PDUs Sent			
TOT_BYTE_GPRS_USERS_LLC_PDU	ACCUMULATION	INT8	L9525:Total Bytes of Downlink GPRS Users LLC PDU	B1275072532.C12 79184441	Sum	hucsvbh, huctvbh
TOT_BYTE_TX_GPRS_INFO_MSG	ACCUMULATION	INT8	L9562:Total Bytes of Sent Downlink GPRS Information Messages	B1275072532.C12 79184478	Sum	hucsvbh, huctvbh
TOT_TX_DURATION_GPRS_BACKGROUND	ACCUMULATION	INT8	L9557:Total Transmission Duration of Downlink EGPRS Background Service	B1275072532.C12 79184473	Sum	hucsvbh, huctvbh
TOT_TX_DURATION_GPRS_THP1	ACCUMULATION	INT8	L9558:Total Transmission Duration of Downlink EGPRS Interactive Service THP1	B1275072532.C12 79184474	Sum	hucsvbh, huctvbh
TOT_TX_DURATION_GPRS_THP2	ACCUMULATION	INT8	L9559:Total Transmission Duration of Downlink EGPRS Interactive Service THP2	B1275072532.C12 79184475	Sum	hucsvbh, huctvbh
TOT_TX_DURATION_GPRS_THP3	ACCUMULATION	INT8	L9560:Total Transmission Duration of Downlink EGPRS Interactive Service THP3	B1275072532.C12 79184476	Sum	hucsvbh, huctvbh

TOT_TX_DUR_GPRS_BKGND	ACCUMULATION	INT8	L9553:Total Transmission Duration of Downlink GPRS Background Service	B1275072532.C12 79184469	Sum	hucsvbh, huctvbh
TOT_TX_DUR_GPRS_THP1	ACCUMULATION	INT8	L9554:Total Transmission Duration of Downlink GPRS Interactive Service THP1	B1275072532.C12 79184470	Sum	hucsvbh, huctvbh
TOT_TX_DUR_GPRS_THP2	ACCUMULATION	INT8	L9555:Total Transmission Duration of Downlink GPRS Interactive Service THP2	B1275072532.C12 79184471	Sum	hucsvbh, huctvbh
TOT_TX_DUR_GPRS_THP3	ACCUMULATION	INT8	L9556:Total Transmission Duration of Downlink GPRS Interactive Service THP3	B1275072532.C12 79184472	Sum	hucsvbh, huctvbh
TX_BKGND_LLC_PDU_TOTAL_BYTE	ACCUMULATION	INT8	L9514:Total Bytes of Downlink EGPRS Background Service LLC PDUs Sent	B1275072532.C12 79184430	Sum	hucsvbh, huctvbh
TX_DL_BKGN_D_LLC_PDU_TOTAL_BYTE	ACCUMULATION	INT8	L9511:Total Bytes of Downlink	B1275072532.C12 79184427	Sum	hucsvbh, huctvbh

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			GPRS Background Service LLC PDUs Sent			
TX_DL_INTACT_LLCPDU_TOTAL_BYTE	ACCUMULATION	INT8	L9512:Total Bytes of Downlink GPRS Interactive Service LLC PDUs Sent	B1275072532.C12 79184428	Sum	hucsvbh, huctvbh
TX_DL_STREAMLLCPDU_TOTAL_BYTE	ACCUMULATION	INT8	L9513:Total Bytes of Downlink GPRS Streaming Service LLC PDUs Sent	B1275072532.C12 79184429	Sum	hucsvbh, huctvbh
TX_EGPRS_BACKGROUND	ACCUMULATION	INT8	L9549:Number of Transmissions of Downlink EGPRS Background Service	B1275072532.C12 79184465	Sum	hucsvbh, huctvbh
TX_EGPRS_THP1	ACCUMULATION	INT8	L9550:Number of Transmissions of Downlink EGPRS Interactive Service THP1	B1275072532.C12 79184466	Sum	hucsvbh, huctvbh
TX_EGPRS_THP2	ACCUMULATION	INT8	L9551:Number of Transmissions of Downlink EGPRS Interactive Service THP2	B1275072532.C12 79184467	Sum	hucsvbh, huctvbh
TX_EGPRS_THP3	ACCUMULATION	INT8	L9552:Number of Transmissions	B1275072532.C12 79184468	Sum	hucsvbh, huctvbh

			of Downlink EGPRS Interactive Service THP3			
TX_GPRS_BKGD	ACCUMULATION	INT8	L9545: Number of Transmissions of Downlink GPRS Background Service	B1275072532.C1279184461	Sum	hucsvbh, huctvbh
TX_GPRS_INFORMATION_MSG	ACCUMULATION	INT8	L9561: Number of Sent Downlink GPRS Information Messages	B1275072532.C1279184477	Sum	hucsvbh, huctvbh
TX_GPRS_THP1	ACCUMULATION	INT8	L9546: Number of Transmissions of Downlink GPRS Interactive Service THP1	B1275072532.C1279184462	Sum	hucsvbh, huctvbh
TX_GPRS_THP2	ACCUMULATION	INT8	L9547: Number of Transmissions of Downlink GPRS Interactive Service THP2	B1275072532.C1279184463	Sum	hucsvbh, huctvbh
TX_GPRS_THP3	ACCUMULATION	INT8	L9548: Number of Transmissions of Downlink GPRS Interactive Service THP3	B1275072532.C1279184464	Sum	hucsvbh, huctvbh

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TX_INTACT_LLC_PDU_TOTAL_BYTE	ACCUMULATION	INT8	L9515:Total Bytes of Downlink EGPRS Interactive Service LLC PDUs Sent	B1275072532.C1279184431	Sum	hucsvbh, huctvbh
TX_LLC_PDU_TOTAL_BYTE	ACCUMULATION	INT8	L9506:Total Bytes of LLC PDUs Sent	B1275072532.C1279184422	Sum	hucsvbh, huctvbh
TX_LLC_PDU	ACCUMULATION	INT8	L9505:Total Number of LLC PDUs Sent	B1275072532.C1279184421	Sum	hucsvbh, huctvbh
TX_STRM_LLC_PDU_TOTAL_BYTE	ACCUMULATION	INT8	L9516:Total Bytes of Downlink EGPRS Streaming Service LLC PDUs Sent	B1275072532.C1279184432	Sum	hucsvbh, huctvbh

### 7.9.50 Cell.Huawei.GSM.DTM\_access\_capability

Measurement of the DTM traffic load in the cell, which serve as a reference for establishing the DTM traffic model.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
DL_DTM_ASG_TX_DCCH	ACCUMULATION	INT8	A9808:Number of Downlink DTM Assignments Sent on DCCH .	B1275072537.C1279189424 or B1290793483.C1279189424	Sum	hucsvbh, huctvbh
DL_PKT_ASG_TX_DCCH	ACCUMULATION	INT8	A9811:Number of Downlink Packet Assignments Sent on DCCH .	B1275072537.C1279189427 or B1290793483.C1279189427	Sum	hucsvbh, huctvbh
DTM_RQ_RX_DCCH	ACCUMULATION	INT8	A9801:Number of DTM	B1275072537.C1279189417 or	Sum	hucsvbh, huctvbh

			Request Received on DCCH .	B1290793483.C127 9189417		
FAIL_DL_DT M_ASG_RX_D CCH	ACCUMULA TION	INT8	A9810: Number of Failed Downlink DTM Assignments Received on DCCH .	B1275072537.C127 9189426 or B1290793483.C127 9189426	Sum	hucsvbh, huctvbh
FAIL_UL_DT M_ASG_RX_D CCH	ACCUMULA TION	INT8	A9804: Number of Failed Uplink DTM Assignments Received on DCCH .	B1275072537.C127 9189420 or B1290793483.C127 9189420	Sum	hucsvbh, huctvbh
SUCC_DL_DT M_ASG_RX_D CCH	ACCUMULA TION	INT8	A9809: Number of Successful Downlink DTM Assignments Received on DCCH .	B1275072537.C127 9189425 or B1290793483.C127 9189425	Sum	hucsvbh, huctvbh
SUCC_DL_PK T_ASG_TX_D CCH	ACCUMULA TION	INT8	A9812: Number of Successful Downlink Packet Assignments Sent on DCCH .	B1275072537.C127 9189428 or B1290793483.C127 9189428	Sum	hucsvbh, huctvbh
SUCC_UL_DT M_ASG_RX_D CCH	ACCUMULA TION	INT8	A9803: Number of Successful Uplink DTM Assignments Received on DCCH .	B1275072537.C127 9189419 or B1290793483.C127 9189419	Sum	hucsvbh, huctvbh
SUCC_UL_PK T_ASG_TX_D CCH	ACCUMULA TION	INT8	A9806: Number of Successful Uplink Packet Assignments Sent on DCCH .	B1275072537.C127 9189422 or B1290793483.C127 9189422	Sum	hucsvbh, huctvbh

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UL_DTM_ASG_TX_DCCH	ACCUMULATION	INT8	A9802: Number of Uplink DTM Assignments Sent on DCCH .	B1275072537.C1279189418 or B1290793483.C1279189418	Sum	hucsvbh, huctvbh
UL_DTM_REJECTS_TX_DCCH	ACCUMULATION	INT8	A9807: Number of Uplink DTM Rejects Sent on DCCH .	B1275072537.C1279189423 or B1290793483.C1279189423	Sum	hucsvbh, huctvbh
UL_PKT_ASG_TX_DCCH	ACCUMULATION	INT8	A9805: Number of Uplink Packet Assignments Sent on DCCH .	B1275072537.C1279189421 or B1290793483.C1279189421	Sum	hucsvbh, huctvbh

### 7.9.51 Cell.Huawei.GSM.eMLPP\_Measurement

eMLPP Measurement for Cell

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CallRel_Aft_FailHO_TrigPreempt	ACCUMULATION	INTEGER	CP103: Number of Call Releases After Failed Handovers Triggered During Preemption	B1290823478.C1282430071	Sum	
Chan_Rel_Cmn_MSs_Preempt	ACCUMULATION	INTEGER	CP100: Number of Channel Releases of Common MSs due to Preemption	B1290823478.C1282430068	Sum	
HO_Req_Cm_MSs_Preempt	ACCUMULATION	INTEGER	CP101: Number of Handover Requests by Common MSs due to Preemption	B1290823478.C1282430069	Sum	
Succ_HO_Cmn	ACCUMULATION	INTEGER	CP102: Number	B1290823478.C12	Sum	

_MSs_Preempt	TION	ER	of Successful Handovers of Common MSs due to Preemption	82430070		
Succ_TCH_Assign_High_Pri_MSs	ACCUMULATION	INTEGER	CP105: Number of Successful TCH Assignments to High-Priority MSs	B1290823478.C12 82430073	Sum	
TCH_Preempt_by_High_Pri_MSs	ACCUMULATION	INTEGER	CP106: Number of TCH Preemptions by High-Priority MSs	B1290823478.C12 82448111	Sum	
TCH_Req_by_High_Pri_MSs	ACCUMULATION	INTEGER	CP104: Number of TCH Requests by High-Priority MSs	B1290823478.C12 82430072	Sum	

### 7.9.52 Cell.Huawei.GSM.Enhanced\_relocation\_request

Measurements related to the supplement handover or the optimized handover

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CD_CONN_FAIL_IN_OPT_HO_IURG	ACCUMULATION	INT8	H3689INa: Call Drops Due to Connection Failure in Optimized Handover over Iur-g	B1290793528.C12 82411876	Sum	
CD_ERR_IND_IN_OPT_HO_IURG	ACCUMULATION	INT8	H3689INb: Call Drops Due to	B1290793528.C12 82411877	Sum	

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IURG			Error Indication in Optimized Handover over Iur-g			
CD_LTIME_NO_MRS_IN_OPT_HO_IURG	ACCUMULATION	INT8	H3689INd:Call Drops Due to No MRs from MS for a Long Time in Optimized Handover over Iur-g	B1290793528.C12 82411879	Sum	
CD_OTHERS_IN_OPT_HO_IURG	ACCUMULATION	INT8	H3689INe:Call Drops Due to Other Causes in Optimized Handover over Iur-g	B1290793528.C12 82411880	Sum	
CD_REL_IND_IN_OPT_HO_IURG	ACCUMULATION	INT8	H3689INc:Call Drops Due to Release Indication in Optimized Handover over Iur-g	B1290793528.C12 82411878	Sum	
FAIL_HO_ON_OPT_HO	ACCUMULATION	INT8	H3629INb:Number of Failed Inter-RAT Handovers Based on Optimized Handover	B1290793528.C12 82411875	Sum	
FAIL_HO_ON_SPL_HO	ACCUMULATION	INT8	H3629IAb:Number of Failed Inter-RAT Handovers Based on Supplement Handover	B1290793528.C12 82411872	Sum	
FAIL_OPT_HO_IURG	ACCUMULATION	INT8	H3629IN:Number of Failed Inter-RAT	B1290793528.C12 82411871	Sum	

			Optimized Handovers over Iur-g			
FAIL_PREP_HO_IURG	ACCUMULATION	INT8	H3679I: Number of Failed Resource Preparations for the Inter-RAT Handover over Iur-g	B1290793528.C12 82423980	Sum	
FAIL_PREP_OPT_HO_IURG_CH_UNAVL	ACCUMULATION	INT8	H3679IAa: Number of Failed Resource Preparations for Inter-RAT Optimized Handover over Iur-g (Channel Unavailable)	B1290793528.C12 82411902	Sum	
FAIL_PREP_OPT_HO_IURG_OM_ITVN	ACCUMULATION	INT8	H3679INc: Number of Failed Resource Preparations for Inter-RAT Optimized Handover over Iur-g (OM Intervention)	B1290793528.C12 82411867	Sum	
FAIL_PREP_OPT_HO_IURG_OR_S	ACCUMULATION	INT8	H3679INq: Number of Failed Resource Preparations for Inter-RAT Optimized Handover over Iur-g (Others)	B1290793528.C12 82411868	Sum	
FAIL_PREP_OPT_HO_IURG	ACCUMULATION	INT8	H3679INd: Number of Failed	B1290793528.C12 82411869	Sum	

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_TX_RES_UN AVL			Resource Preparations for Inter-RAT Optimized Handover over Iur-g (Transmission Resource Unavailable)			
FAIL_PREP_O PT_HO_IURG _UP_INSUF	ACCUMULA TION	INT8	H3679INT:Num ber of Failed Resource Preparations for Inter-RAT Optimized Handover over Iur-g (User Plane Resource Insufficient)	B1290793528.C12 82411870	Sum	
FAIL_PREP_S PL_HO_IURG _CH_UNAVL	ACCUMULA TION	INT8	H3679INa:Num ber of Failed Resource Preparations for Inter-RAT Supplement Handover over Iur-g (Channel Unavailable)	B1290793528.C12 82411901	Sum	
FAIL_PREP_S PL_HO_IURG _OM_ITVN	ACCUMULA TION	INT8	H3679IAc:Num ber of Failed Resource Preparations for Inter-RAT Supplement Handover over Iur-g (OM Intervention)	B1290793528.C12 82411862	Sum	
FAIL_PREP_S PL_HO_IURG _ORS	ACCUMULA TION	INT8	H3679IAq:Num ber of Failed Resource Preparations for Inter-RAT Supplement	B1290793528.C12 82411863	Sum	

			Handover over Iur-g (Others)			
FAIL_SPL_HO_IURG_A_PRTC_TO	ACCUMULATION	INT8	H3679IAs: Number of Failed Inter-RAT Supplement Handovers over Iur-g (A Interface Protection Timeout)	B1290793528.C12 82411864	Sum	
HO_RQ_IURG	ACCUMULATION	INT8	H3609I: Number of Inter-RAT Handover Requests over Iur-g	B1290793528.C12 82423979	Sum	
HO_RQ_ON_OPT_HO	ACCUMULATION	INT8	H3609INb: Number of Inter-RAT Handover Requests Based on Optimized Handover	B1290793528.C12 82411873	Sum	
HO_RQ_ON_SPL_HO	ACCUMULATION	INT8	H3609IAb: Number of Inter-RAT Handover Requests Based on Supplement Handover	B1290793528.C12 82411874	Sum	
OPT_HO_RQ_IURG	ACCUMULATION	INT8	H3609IN: Number of Inter-RAT Optimized Handover Requests over Iur-g	B1290793528.C12 82411859	Sum	
SPL_HO_RQ_IURG	ACCUMULATION	INT8	H3609IA: Number of Inter-RAT Supplement Handover	B1290793528.C12 82411858	Sum	

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			Requests over Iur-g			
SUCC_HO_ON_OPT_HO	ACCUMULATION	INT8	H3639INb: Number of Successful Inter-RAT Handovers Based on Optimized Handover	B1290793528.C12 82423983	Sum	
SUCC_HO_ON_SPL_HO	ACCUMULATION	INT8	H3639IAb: Number of Successful Inter-RAT Handovers Based on Supplement Handover	B1290793528.C12 82423982	Sum	
SUCC_OPT_HO_IURG	ACCUMULATION	INT8	H3639IN: Number of Successful Inter-RAT Optimized Handovers over Iur-g	B1290793528.C12 82423978	Sum	
SUCC_PREP_HO_IURG	ACCUMULATION	INT8	H3669I: Number of Successful Resource Preparations for the Inter-RAT Handover over Iur-g	B1290793528.C12 82423981	Sum	
SUCC_PREP_OPT_HO_IURG	ACCUMULATION	INT8	H3669IN: Number of Successful Resource Preparations for Inter-RAT Optimized Handover over Iur-g	B1290793528.C12 82423977	Sum	
SUCC_PREP_SPL_HO_IURG	ACCUMULATION	INT8	H3669IA: Number of Successful Resource	B1290793528.C12 82423976	Sum	

			Preparations for Inter-RAT Supplement Handover over Iur-g			
SUCCESS_RATE_OPT_HO	INTENSITY	FLOAT	RH3669IN:Success Rate of Optimized Handover	B1290793528.C12 82423985	Average	Sum, Minimum, Maximum
SUCCESS_RATE_RES_PREP_SPL_HO	INTENSITY	FLOAT	RH3669IA:Success Rate of Resource Preparation for Supplement Handover	B1290793528.C12 82423984	Average	Sum, Minimum, Maximum
SUCCESS_RATE_SPL_HO	INTENSITY	FLOAT	RH3639IA:Success Rate of Supplement Handover	B1290793528.C12 82423986	Average	Sum, Minimum, Maximum

### 7.9.53 Cell.Huawei.GSM.Flow\_control

Flow control indicators

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CCCH_LOAD_PCH_OVERLOADS	ACCUMULATION	INT8	L3188C:MSG CCCH LOAD IND (PCH) Messages Sent on Abis Interface	B1275071418.C12 78070419	Sum	hucsvbh, huctvbh
CCCH_LOAD_RACH_OVERLOADS	ACCUMULATION	INT8	L3188B:MSG CCCH LOAD IND (RACH)	B1275071418.C12 78070418	Sum	hucsvbh, huctvbh

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			Messages Sent on Abis Interface			
DEL_IND	ACCUMULATION	INT8	L3188A:MSG DEL IND Messages Sent on Abis Interface	B1275071418.C12 78070417	Sum	hucsvbh, huctvbh
DISC_CH_REQ_CALL_REESTB	ACCUMULATION	INTEGER	L3189D:Discarded Channel Requests (Call Re-establishment)	B1275071418.C12 78070434	Sum	hucsvbh, huctvbh
DISC_CH_REQ_ECALL	ACCUMULATION	INTEGER	L3189C:Discarded Channel Requests (Emergency Call)	B1275071418.C12 78070433	Sum	hucsvbh, huctvbh
DISC_CH_REQ_LMU_AND_RESV	ACCUMULATION	INTEGER	L3189G:Discarded Channel Requests (LMU+Reserved)	B1275071418.C12 78070437	Sum	hucsvbh, huctvbh
DISC_CH_REQ_LOC_UPDATE	ACCUMULATION	INTEGER	L3189E:Discarded Channel Requests (Location Updating)	B1275071418.C12 78070435	Sum	hucsvbh, huctvbh
DISC_CH_REQ_MOC	ACCUMULATION	INTEGER	L3189A:Discarded Channel Requests (MOC)	B1275071418.C12 78070431	Sum	hucsvbh, huctvbh
DISC_CH_REQ_MTC	ACCUMULATION	INTEGER	L3189B:Discarded Channel Requests (MTC)	B1275071418.C12 78070432	Sum	hucsvbh, huctvbh
DISC_CH_REQ_PACKET_CALL	ACCUMULATION	INTEGER	L3189F:Discarded Channel Requests (Packet Call)	B1275071418.C12 78070436	Sum	hucsvbh, huctvbh

DISC_CH_REQ_PROTO_INCOMP	ACCUMULATION	INTEGER	L3189H:Discarded Channel Requests (Protocol Incompatible)	B1275071418.C12 78070438	Sum	hucsvbh, huctvbh
DISC_CH_REQ	ACCUMULATION	INT8	L3189I:Discarded Channel Requests	B1275071418.C12 78070439	Sum	hucsvbh, huctvbh
FCTRL_HIGHEST_LEV_DELAYS	ACCUMULATION	INTEGER	L3188K:Highest Level Delays	B1275071418.C12 78070427	Sum	hucsvbh, huctvbh
FCTRL_LEV_DOWN	ACCUMULATION	INTEGER	L3188I:Decreases of Flow Control Levels	B1275071418.C12 78070425	Sum	hucsvbh, huctvbh
FCTRL_LEV_TRIG_IGNORES	ACCUMULATION	INTEGER	L3188J:Ignored Trigger Events	B1275071418.C12 78070426	Sum	hucsvbh, huctvbh
FCTRL_LEV_UP	ACCUMULATION	INTEGER	L3188H:Increases of Flow Control Levels	B1275071418.C12 78070424	Sum	hucsvbh, huctvbh
FCTRL_PAGING_MSG_DEL_PCH_QUE	ACCUMULATION	INT8	L3188L:Paging Messages Discarded from the PCH Queue	B1275071418.C12 78070428	Sum	hucsvbh, huctvbh
FCTRL_PCH_QUE_MAX_TN	INTENSITY	INTEGER	L3188M:Maximum Seizure Ratio of PCH Paging Queue	B1275071418.C12 78070429	Constant	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
LOAD_IND_MSC	ACCUMULATION	INTEGER	L3188G:LOAD IND Messages Sent on the A Interface	B1275071418.C12 78070423	Sum	hucsvbh, huctvbh
OVERLOAD_P	ACCUMULATION	INT8	L3188D:PACK	B1275071418.C12	Sum	hucsvbh,

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S	TION		ET CCCH LOAD IND Messages Sent on Abis Interface	78070420		huctvbh
PAGING_OVE RLOAD	INTENSITY	FLOA T	RL3188:OVER LOAD rate of paging	B1275071418.C12 78070430	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
TRX_OVERLO AD_CCCH_OV ERLOADS	ACCUMULA TION	INTEG ER	L3188E:MSG ABIS OVERLOAD (CCCH OVERLOAD) Messages Sent on Abis Interface	B1275071418.C12 78070421	Sum	hucsvbh, huctvbh
TRX_OVERLO AD_CPU_OVE RLOADS	ACCUMULA TION	INTEG ER	L3188F:MSG ABIS OVERLOAD (PROCESSOR OVERLOAD) Messages Sent on Abis Interface	B1275071418.C12 78070422	Sum	hucsvbh, huctvbh

### 7.9.54 Cell.Huawei.GSM.Frame\_rate\_in\_ext

Frame rate the customised MR of cell

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
EXT_AMR_F R_1020_UP_N UM	ACCUMULA TION	INT8	S3107:Number of Uplink Frames with FR AMR of 10.20 kbit/s in the Customized MR of Cell	B1275071634.C127 8286423	Sum	hucsvbh, huctvbh

EXT_AMR_FR_1220_UP_NUM	ACCUMULATION	INT8	S3108: Number of Uplink Frames with FR AMR of 12.20 kbit/s in the Customized MR of Cell	B1275071634.C1278286424	Sum	hucsvbh, huctvbh
EXT_AMR_FR_475_UP_NUM	ACCUMULATION	INT8	S3101: Number of Uplink Frames with FR AMR of 4.75 kbit/s in the Customized MR of Cell	B1275071634.C1278286417	Sum	hucsvbh, huctvbh
EXT_AMR_FR_515_UP_NUM	ACCUMULATION	INT8	S3102: Number of Uplink Frames with FR AMR of 5.15 kbit/s in the Customized MR of Cell	B1275071634.C1278286418	Sum	hucsvbh, huctvbh
EXT_AMR_FR_590_UP_NUM	ACCUMULATION	INT8	S3103: Number of Uplink Frames with FR AMR of 5.90 kbit/s in the Customized MR of Cell	B1275071634.C1278286419	Sum	hucsvbh, huctvbh
EXT_AMR_FR_670_UP_NUM	ACCUMULATION	INT8	S3104: Number of Uplink Frames with FR AMR of 6.70 kbit/s in the Customized MR of Cell	B1275071634.C1278286420	Sum	hucsvbh, huctvbh
EXT_AMR_FR_740_UP_NUM	ACCUMULATION	INT8	S3105: Number of Uplink Frames with FR	B1275071634.C1278286421	Sum	hucsvbh, huctvbh

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			AMR of 7.40 kbit/s in the Customized MR of Cell			
EXT_AMR_FR_795_UP_NUM	ACCUMULATION	INT8	S3106: Number of Uplink Frames with FR AMR of 7.95 kbit/s in the Customized MR of Cell	B1275071634.C127 8286422	Sum	hucsvbh, huctvbh
EXT_AMR_HR_475_UP_NUM	ACCUMULATION	INT8	S3109: Number of Uplink Frames with HR AMR of 4.75 kbit/s in the Customized MR of Cell	B1275071634.C127 8286425	Sum	hucsvbh, huctvbh
EXT_AMR_HR_515_UP_NUM	ACCUMULATION	INT8	S3110: Number of Uplink Frames with HR AMR of 5.15 kbit/s in the Customized MR of Cell	B1275071634.C127 8286426	Sum	hucsvbh, huctvbh
EXT_AMR_HR_590_UP_NUM	ACCUMULATION	INT8	S3111: Number of Uplink Frames with HR AMR of 5.90 kbit/s in the Customized MR of Cell	B1275071634.C127 8286427	Sum	hucsvbh, huctvbh
EXT_AMR_HR_670_UP_NUM	ACCUMULATION	INT8	S3112: Number of Uplink Frames with HR AMR of 6.70 kbit/s in the Customized MR of Cell	B1275071634.C127 8286428	Sum	hucsvbh, huctvbh
EXT_AMR_HR_740_UP_NUM	ACCUMULATION	INT8	S3113: Number of Uplink Frames with HR	B1275071634.C127 8286429	Sum	hucsvbh, huctvbh

			AMR of 7.40 kbit/s in the Customized MR of Cell			
EXT_AMR_HR_795_UP_NUM	ACCUMULATION	INT8	S3117: Number of Uplink Frames with HR AMR of 7.95 kbit/s in the Customized MR of Cell	B1275071634.C1278286434	Sum	hucsvbh, huctvbh
EXT_EFR_TCH_UP_NUM	ACCUMULATION	INT8	S3115: Number of Uplink Frames Among the EFR Frames in the Customized MR of Cell	B1275071634.C1278286431	Sum	hucsvbh, huctvbh
EXT_FR_TCH_UP_NUM	ACCUMULATION	INT8	S3114: Number of Uplink Frames Among the FR Frames in the Customized MR of Cell	B1275071634.C1278286430	Sum	hucsvbh, huctvbh
EXT_HR_TCH_UP_NUM	ACCUMULATION	INT8	S3116: Number of Uplink Frames Among the HR Frames in the Customized MR of Cell	B1275071634.C1278286432	Sum	hucsvbh, huctvbh
MRS_DL_FER_R0_RX_QUAL_R0	ACCUMULATION	INT8	S3117B: Number of MRs on Downlink FER (Rank 0 and Receive Quality Rank 0)	B1275071634.C1282411591	Sum	hucsvbh, huctvbh

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MRS_DL_FER_R0_RX_QUAL_R1	ACCUMULATION	INT8	S3118B: Number of MRs on Downlink FER ( Rank 0 and Receive Quality Rank 1)	B1275071634.C128 2411592	Sum	hucsvbh, huctvbh
MRS_DL_FER_R0_RX_QUAL_R2	ACCUMULATION	INT8	S3119B: Number of MRs on Downlink FER ( Rank 0 and Receive Quality Rank 2)	B1275071634.C128 2411593	Sum	hucsvbh, huctvbh
MRS_DL_FER_R0_RX_QUAL_R3	ACCUMULATION	INT8	S3120B: Number of MRs on Downlink FER ( Rank 0 and Receive Quality Rank 3)	B1275071634.C128 2411594	Sum	hucsvbh, huctvbh
MRS_DL_FER_R0_RX_QUAL_R4	ACCUMULATION	INT8	S3121B: Number of MRs on Downlink FER ( Rank 0 and Receive Quality Rank 4)	B1275071634.C128 2411595	Sum	hucsvbh, huctvbh
MRS_DL_FER_R0_RX_QUAL_R5	ACCUMULATION	INT8	S3122B: Number of MRs on Downlink FER ( Rank 0 and Receive Quality Rank 5)	B1275071634.C128 2411596	Sum	hucsvbh, huctvbh
MRS_DL_FER_R0_RX_QUAL_R6	ACCUMULATION	INT8	S3123B: Number of MRs on Downlink FER ( Rank 0 and Receive Quality Rank 6)	B1275071634.C128 2411597	Sum	hucsvbh, huctvbh
MRS_DL_FER_R0_RX_QUAL_R7	ACCUMULATION	INT8	S3124B: Number of MRs on Downlink FER ( Rank 0 and Receive Quality Rank 7)	B1275071634.C128 2411598	Sum	hucsvbh, huctvbh

MRS_DL_FER_R1_RX_QUAL_R0	ACCUMULATION	INT8	S3125B: Number of MRs on Downlink FER ( Rank 1 and Receive Quality Rank 0)	B1275071634.C128 2411599	Sum	hucsvbh, huctvbh
MRS_DL_FER_R1_RX_QUAL_R1	ACCUMULATION	INT8	S3126B: Number of MRs on Downlink FER ( Rank 1 and Receive Quality Rank 1)	B1275071634.C128 2411600	Sum	hucsvbh, huctvbh
MRS_DL_FER_R1_RX_QUAL_R2	ACCUMULATION	INT8	S3127B: Number of MRs on Downlink FER ( Rank 1 and Receive Quality Rank 2)	B1275071634.C128 2411601	Sum	hucsvbh, huctvbh
MRS_DL_FER_R1_RX_QUAL_R3	ACCUMULATION	INT8	S3128B: Number of MRs on Downlink FER ( Rank 1 and Receive Quality Rank 3)	B1275071634.C128 2411602	Sum	hucsvbh, huctvbh
MRS_DL_FER_R1_RX_QUAL_R4	ACCUMULATION	INT8	S3129B: Number of MRs on Downlink FER ( Rank 1 and Receive Quality Rank 4)	B1275071634.C128 2411603	Sum	hucsvbh, huctvbh
MRS_DL_FER_R1_RX_QUAL_R5	ACCUMULATION	INT8	S3130B: Number of MRs on Downlink FER ( Rank 1 and Receive Quality Rank 5)	B1275071634.C128 2411604	Sum	hucsvbh, huctvbh
MRS_DL_FER_R1_RX_QUAL	ACCUMULATION	INT8	S3131B: Number of MRs on	B1275071634.C128 2411605	Sum	hucsvbh, huctvbh

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AL_R6			Downlink FER ( Rank 1 and Receive Quality Rank 6)			
MRS_DL_FER_R1_RX_QU AL_R7	ACCUMULATION	INT8	S3132B: Number of MRs on Downlink FER ( Rank 1 and Receive Quality Rank 7)	B1275071634.C128 2411606	Sum	hucsvbh, huctvbh
MRS_DL_FER_R2_RX_QU AL_R0	ACCUMULATION	INT8	S3133B: Number of MRs on Downlink FER ( Rank 2 and Receive Quality Rank 0)	B1275071634.C128 2411607	Sum	hucsvbh, huctvbh
MRS_DL_FER_R2_RX_QU AL_R1	ACCUMULATION	INT8	S3134B: Number of MRs on Downlink FER ( Rank 2 and Receive Quality Rank 1)	B1275071634.C128 2411608	Sum	hucsvbh, huctvbh
MRS_DL_FER_R2_RX_QU AL_R2	ACCUMULATION	INT8	S3135B: Number of MRs on Downlink FER ( Rank 2 and Receive Quality Rank 2)	B1275071634.C128 2411609	Sum	hucsvbh, huctvbh
MRS_DL_FER_R2_RX_QU AL_R3	ACCUMULATION	INT8	S3136B: Number of MRs on Downlink FER ( Rank 2 and Receive Quality Rank 3)	B1275071634.C128 2411610	Sum	hucsvbh, huctvbh
MRS_DL_FER_R2_RX_QU AL_R4	ACCUMULATION	INT8	S3137B: Number of MRs on Downlink FER ( Rank 2 and Receive Quality Rank 4)	B1275071634.C128 2411611	Sum	hucsvbh, huctvbh
MRS_DL_FER	ACCUMULATION	INT8	S3138B: Number of MRs on Downlink FER ( Rank 2 and Receive Quality Rank 5)	B1275071634.C128 2411612	Sum	hucsvbh, huctvbh

R_R2_RX_QU AL_R5	TION		r of MRs on Downlink FER ( Rank 2 and Receive Quality Rank 5)	2411612		huctvbh
MRS_DL_FE R_R2_RX_QU AL_R6	ACCUMULA TION	INT8	S3139B:Numbe r of MRs on Downlink FER ( Rank 2 and Receive Quality Rank 6)	B1275071634.C128 2411613	Sum	hucsvbh, huctvbh
MRS_DL_FE R_R2_RX_QU AL_R7	ACCUMULA TION	INT8	S3140B:Numbe r of MRs on Downlink FER ( Rank 2 and Receive Quality Rank 7)	B1275071634.C128 2411614	Sum	hucsvbh, huctvbh
MRS_DL_FE R_R3_RX_QU AL_R0	ACCUMULA TION	INT8	S3141B:Numbe r of MRs on Downlink FER ( Rank 3 and Receive Quality Rank 0)	B1275071634.C128 2411615	Sum	hucsvbh, huctvbh
MRS_DL_FE R_R3_RX_QU AL_R1	ACCUMULA TION	INT8	S3142B:Numbe r of MRs on Downlink FER ( Rank 3 and Receive Quality Rank 1)	B1275071634.C128 2411616	Sum	hucsvbh, huctvbh
MRS_DL_FE R_R3_RX_QU AL_R2	ACCUMULA TION	INT8	S3143B:Numbe r of MRs on Downlink FER ( Rank 3 and Receive Quality Rank 2)	B1275071634.C128 2411617	Sum	hucsvbh, huctvbh
MRS_DL_FE R_R3_RX_QU AL_R3	ACCUMULA TION	INT8	S3144B:Numbe r of MRs on Downlink FER	B1275071634.C128 2411618	Sum	hucsvbh, huctvbh

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			( Rank 3 and Receive Quality Rank 3)			
MRS_DL_FER_R3_RX_QUAL_R4	ACCUMULATION	INT8	S3145B: Number of MRs on Downlink FER ( Rank 3 and Receive Quality Rank 4)	B1275071634.C1282411619	Sum	hucsvbh, huctvbh
MRS_DL_FER_R3_RX_QUAL_R5	ACCUMULATION	INT8	S3146B: Number of MRs on Downlink FER ( Rank 3 and Receive Quality Rank 5)	B1275071634.C1282411620	Sum	hucsvbh, huctvbh
MRS_DL_FER_R3_RX_QUAL_R6	ACCUMULATION	INT8	S3147B: Number of MRs on Downlink FER ( Rank 3 and Receive Quality Rank 6)	B1275071634.C1282411621	Sum	hucsvbh, huctvbh
MRS_DL_FER_R3_RX_QUAL_R7	ACCUMULATION	INT8	S3148B: Number of MRs on Downlink FER ( Rank 3 and Receive Quality Rank 7)	B1275071634.C1282411622	Sum	hucsvbh, huctvbh
MRS_DL_FER_R4_RX_QUAL_R0	ACCUMULATION	INT8	S3149B: Number of MRs on Downlink FER ( Rank 4 and Receive Quality Rank 0)	B1275071634.C1282411623	Sum	hucsvbh, huctvbh
MRS_DL_FER_R4_RX_QUAL_R1	ACCUMULATION	INT8	S3150B: Number of MRs on Downlink FER ( Rank 4 and Receive Quality Rank 1)	B1275071634.C1282411624	Sum	hucsvbh, huctvbh
MRS_DL_FER_R4_RX_QUAL	ACCUMULATION	INT8	S3151B: Number of MRs on	B1275071634.C1282411625	Sum	hucsvbh, huctvbh

AL_R2			Downlink FER ( Rank 4 and Receive Quality Rank 2)			
MRS_DL_FER_R4_RX_QU AL_R3	ACCUMULATION	INT8	S3152B: Number of MRs on Downlink FER ( Rank 4 and Receive Quality Rank 3)	B1275071634.C128 2411626	Sum	hucsvbh, huctvbh
MRS_DL_FER_R4_RX_QU AL_R4	ACCUMULATION	INT8	S3153B: Number of MRs on Downlink FER ( Rank 4 and Receive Quality Rank 4)	B1275071634.C128 2411627	Sum	hucsvbh, huctvbh
MRS_DL_FER_R4_RX_QU AL_R5	ACCUMULATION	INT8	S3154B: Number of MRs on Downlink FER ( Rank 4 and Receive Quality Rank 5)	B1275071634.C128 2411628	Sum	hucsvbh, huctvbh
MRS_DL_FER_R4_RX_QU AL_R6	ACCUMULATION	INT8	S3155B: Number of MRs on Downlink FER ( Rank 4 and Receive Quality Rank 6)	B1275071634.C128 2411629	Sum	hucsvbh, huctvbh
MRS_DL_FER_R4_RX_QU AL_R7	ACCUMULATION	INT8	S3156B: Number of MRs on Downlink FER ( Rank 4 and Receive Quality Rank 7)	B1275071634.C128 2411630	Sum	hucsvbh, huctvbh
MRS_DL_FER_R5_RX_QU AL_R0	ACCUMULATION	INT8	S3157B: Number of MRs on Downlink FER ( Rank 5 and	B1275071634.C128 2411631	Sum	hucsvbh, huctvbh

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			Receive Quality Rank 0)			
MRS_DL_FER_R5_RX_QUAL_R1	ACCUMULATION	INT8	S3158B: Number of MRs on Downlink FER ( Rank 5 and Receive Quality Rank 1)	B1275071634.C128 2411632	Sum	hucsvbh, huctvbh
MRS_DL_FER_R5_RX_QUAL_R2	ACCUMULATION	INT8	S3159B: Number of MRs on Downlink FER ( Rank 5 and Receive Quality Rank 2)	B1275071634.C128 2411633	Sum	hucsvbh, huctvbh
MRS_DL_FER_R5_RX_QUAL_R3	ACCUMULATION	INT8	S3160B: Number of MRs on Downlink FER ( Rank 5 and Receive Quality Rank 3)	B1275071634.C128 2411634	Sum	hucsvbh, huctvbh
MRS_DL_FER_R5_RX_QUAL_R4	ACCUMULATION	INT8	S3161B: Number of MRs on Downlink FER ( Rank 5 and Receive Quality Rank 4)	B1275071634.C128 2411635	Sum	hucsvbh, huctvbh
MRS_DL_FER_R5_RX_QUAL_R5	ACCUMULATION	INT8	S3162B: Number of MRs on Downlink FER ( Rank 5 and Receive Quality Rank 5)	B1275071634.C128 2411636	Sum	hucsvbh, huctvbh
MRS_DL_FER_R5_RX_QUAL_R6	ACCUMULATION	INT8	S3163B: Number of MRs on Downlink FER ( Rank 5 and Receive Quality Rank 6)	B1275071634.C128 2411637	Sum	hucsvbh, huctvbh
MRS_DL_FER_R5_RX_QUAL_R7	ACCUMULATION	INT8	S3164B: Number of MRs on Downlink FER	B1275071634.C128 2411638	Sum	hucsvbh, huctvbh

			( Rank 5 and Receive Quality Rank 7)			
MRS_DL_FER_R6_RX_QUAL_R0	ACCUMULATION	INT8	S3165B: Number of MRs on Downlink FER ( Rank 6 and Receive Quality Rank 0)	B1275071634.C1282411639	Sum	hucsvbh, huctvbh
MRS_DL_FER_R6_RX_QUAL_R1	ACCUMULATION	INT8	S3166B: Number of MRs on Downlink FER ( Rank 6 and Receive Quality Rank 1)	B1275071634.C1282411640	Sum	hucsvbh, huctvbh
MRS_DL_FER_R6_RX_QUAL_R2	ACCUMULATION	INT8	S3167B: Number of MRs on Downlink FER ( Rank 6 and Receive Quality Rank 2)	B1275071634.C1282411641	Sum	hucsvbh, huctvbh
MRS_DL_FER_R6_RX_QUAL_R3	ACCUMULATION	INT8	S3168B: Number of MRs on Downlink FER ( Rank 6 and Receive Quality Rank 3)	B1275071634.C1282411642	Sum	hucsvbh, huctvbh
MRS_DL_FER_R6_RX_QUAL_R4	ACCUMULATION	INT8	S3169B: Number of MRs on Downlink FER ( Rank 6 and Receive Quality Rank 4)	B1275071634.C1282411643	Sum	hucsvbh, huctvbh
MRS_DL_FER_R6_RX_QUAL_R5	ACCUMULATION	INT8	S3170B: Number of MRs on Downlink FER ( Rank 6 and Receive Quality Rank 5)	B1275071634.C1282411644	Sum	hucsvbh, huctvbh

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			Rank 5)			
MRS_DL_FER_R6_RX_QUAL_R6	ACCUMULATION	INT8	S3171B: Number of MRs on Downlink FER ( Rank 6 and Receive Quality Rank 6)	B1275071634.C128 2411645	Sum	hucsvbh, huctvbh
MRS_DL_FER_R6_RX_QUAL_R7	ACCUMULATION	INT8	S3172B: Number of MRs on Downlink FER ( Rank 6 and Receive Quality Rank 7)	B1275071634.C128 2411646	Sum	hucsvbh, huctvbh
MRS_DL_FER_R7_RX_QUAL_R0	ACCUMULATION	INT8	S3173B: Number of MRs on Downlink FER ( Rank 7 and Receive Quality Rank 0)	B1275071634.C128 2411647	Sum	hucsvbh, huctvbh
MRS_DL_FER_R7_RX_QUAL_R1	ACCUMULATION	INT8	S3174B: Number of MRs on Downlink FER ( Rank 7 and Receive Quality Rank 1)	B1275071634.C128 2411648	Sum	hucsvbh, huctvbh
MRS_DL_FER_R7_RX_QUAL_R2	ACCUMULATION	INT8	S3175B: Number of MRs on Downlink FER ( Rank 7 and Receive Quality Rank 2)	B1275071634.C128 2411649	Sum	hucsvbh, huctvbh
MRS_DL_FER_R7_RX_QUAL_R3	ACCUMULATION	INT8	S3176B: Number of MRs on Downlink FER ( Rank 7 and Receive Quality Rank 3)	B1275071634.C128 2411650	Sum	hucsvbh, huctvbh
MRS_DL_FER_R7_RX_QUAL_R4	ACCUMULATION	INT8	S3177B: Number of MRs on Downlink FER ( Rank 7 and	B1275071634.C128 2411651	Sum	hucsvbh, huctvbh

			Receive Quality Rank 4)			
MRS_DL_FER_R7_RX_QUAL_R5	ACCUMULATION	INT8	S3178B: Number of MRs on Downlink FER ( Rank 7 and Receive Quality Rank 5)	B1275071634.C128 2411652	Sum	hucsvbh, huctvbh
MRS_DL_FER_R7_RX_QUAL_R6	ACCUMULATION	INT8	S3179B: Number of MRs on Downlink FER ( Rank 7 and Receive Quality Rank 6)	B1275071634.C128 2411653	Sum	hucsvbh, huctvbh
MRS_DL_FER_R7_RX_QUAL_R7	ACCUMULATION	INT8	S3180B: Number of MRs on Downlink FER ( Rank 7 and Receive Quality Rank 7)	B1275071634.C128 2411654	Sum	hucsvbh, huctvbh
MRS_UL_FER_R0_RX_QUAL_R0	ACCUMULATION	INT8	S3117A: Number of MRs on Uplink FER ( Rank 0 and Receive Quality Rank 0)	B1275071634.C128 2411527	Sum	hucsvbh, huctvbh
MRS_UL_FER_R0_RX_QUAL_R1	ACCUMULATION	INT8	S3118A: Number of MRs on Uplink FER ( Rank 0 and Receive Quality Rank 1)	B1275071634.C128 2411528	Sum	hucsvbh, huctvbh
MRS_UL_FER_R0_RX_QUAL_R2	ACCUMULATION	INT8	S3119A: Number of MRs on Uplink FER ( Rank 0 and Receive Quality Rank 2)	B1275071634.C128 2411529	Sum	hucsvbh, huctvbh

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MRS_UL_FER_R0_RX_QUAL_R3	ACCUMULATION	INT8	S3120A: Number of MRs on Uplink FER ( Rank 0 and Receive Quality Rank 3)	B1275071634.C128 2411530	Sum	hucsvbh, huctvbh
MRS_UL_FER_R0_RX_QUAL_R4	ACCUMULATION	INT8	S3121A: Number of MRs on Uplink FER ( Rank 0 and Receive Quality Rank 4)	B1275071634.C128 2411531	Sum	hucsvbh, huctvbh
MRS_UL_FER_R0_RX_QUAL_R5	ACCUMULATION	INT8	S3121A: Number of MRs on Uplink FER ( Rank 0 and Receive Quality Rank 5)	B1275071634.C128 2411532	Sum	hucsvbh, huctvbh
MRS_UL_FER_R0_RX_QUAL_R6	ACCUMULATION	INT8	S3123A: Number of MRs on Uplink FER ( Rank 0 and Receive Quality Rank 6)	B1275071634.C128 2411533	Sum	hucsvbh, huctvbh
MRS_UL_FER_R0_RX_QUAL_R7	ACCUMULATION	INT8	S3124A: Number of MRs on Uplink FER ( Rank 0 and Receive Quality Rank 7)	B1275071634.C128 2411534	Sum	hucsvbh, huctvbh
MRS_UL_FER_R1_RX_QUAL_R0	ACCUMULATION	INT8	S3125A: Number of MRs on Uplink FER ( Rank 1 and Receive Quality Rank 0)	B1275071634.C128 2411535	Sum	hucsvbh, huctvbh
MRS_UL_FER_R1_RX_QUAL_R1	ACCUMULATION	INT8	S3126A: Number of MRs on Uplink FER ( Rank 1 and Receive Quality Rank 1)	B1275071634.C128 2411536	Sum	hucsvbh, huctvbh

MRS_UL_FER_R1_RX_QUAL_R2	ACCUMULATION	INT8	S3127A: Number of MRs on Uplink FER ( Rank 1 and Receive Quality Rank 2)	B1275071634.C128 2411537	Sum	hucsvbh, huctvbh
MRS_UL_FER_R1_RX_QUAL_R3	ACCUMULATION	INT8	S3128A: Number of MRs on Uplink FER ( Rank 1 and Receive Quality Rank 3)	B1275071634.C128 2411538	Sum	hucsvbh, huctvbh
MRS_UL_FER_R1_RX_QUAL_R4	ACCUMULATION	INT8	S3129A: Number of MRs on Uplink FER ( Rank 1 and Receive Quality Rank 4)	B1275071634.C128 2411539	Sum	hucsvbh, huctvbh
MRS_UL_FER_R1_RX_QUAL_R5	ACCUMULATION	INT8	S3130A: Number of MRs on Uplink FER ( Rank 1 and Receive Quality Rank 5)	B1275071634.C128 2411540	Sum	hucsvbh, huctvbh
MRS_UL_FER_R1_RX_QUAL_R6	ACCUMULATION	INT8	S3131A: Number of MRs on Uplink FER ( Rank 1 and Receive Quality Rank 6)	B1275071634.C128 2411541	Sum	hucsvbh, huctvbh
MRS_UL_FER_R1_RX_QUAL_R7	ACCUMULATION	INT8	S3132A: Number of MRs on Uplink FER ( Rank 1 and Receive Quality Rank 7)	B1275071634.C128 2411542	Sum	hucsvbh, huctvbh
MRS_UL_FER_R2_RX_QUAL	ACCUMULATION	INT8	S3133A: Number of MRs on	B1275071634.C128 2411543	Sum	hucsvbh, huctvbh

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AL_R0			Uplink FER ( Rank 2 and Receive Quality Rank 0)			
MRS_UL_FE R_R2_RX_QU AL_R1	ACCUMULA TION	INT8	S3134A:Numbe r of MRs on Uplink FER ( Rank 2 and Receive Quality Rank 1)	B1275071634.C128 2411544	Sum	hucsvbh, huctvbh
MRS_UL_FE R_R2_RX_QU AL_R2	ACCUMULA TION	INT8	S3135A:Numbe r of MRs on Uplink FER ( Rank 2 and Receive Quality Rank 2)	B1275071634.C128 2411545	Sum	hucsvbh, huctvbh
MRS_UL_FE R_R2_RX_QU AL_R3	ACCUMULA TION	INT8	S3136A:Numbe r of MRs on Uplink FER ( Rank 2 and Receive Quality Rank 3)	B1275071634.C128 2411546	Sum	hucsvbh, huctvbh
MRS_UL_FE R_R2_RX_QU AL_R4	ACCUMULA TION	INT8	S3137A:Numbe r of MRs on Uplink FER ( Rank 2 and Receive Quality Rank 4)	B1275071634.C128 2411547	Sum	hucsvbh, huctvbh
MRS_UL_FE R_R2_RX_QU AL_R5	ACCUMULA TION	INT8	S3138A:Numbe r of MRs on Uplink FER ( Rank 2 and Receive Quality Rank 5)	B1275071634.C128 2411548	Sum	hucsvbh, huctvbh
MRS_UL_FE R_R2_RX_QU AL_R6	ACCUMULA TION	INT8	S3139A:Numbe r of MRs on Uplink FER ( Rank 2 and Receive Quality Rank 6)	B1275071634.C128 2411549	Sum	hucsvbh, huctvbh
MRS_UL_FE	ACCUMULA	INT8	S3140A:Numbe	B1275071634.C128	Sum	hucsvbh,

R_R2_RX_QU AL_R7	TION		r of MRs on Uplink FER ( Rank 2 and Receive Quality Rank 7)	2411550		huctvbh
MRS_UL_FE R_R3_RX_QU AL_R0	ACCUMULA TION	INT8	S3141A:Numbe r of MRs on Uplink FER ( Rank 3 and Receive Quality Rank 0)	B1275071634.C128 2411551	Sum	hucsvbh, huctvbh
MRS_UL_FE R_R3_RX_QU AL_R1	ACCUMULA TION	INT8	S3142A:Numbe r of MRs on Uplink FER ( Rank 3 and Receive Quality Rank 1)	B1275071634.C128 2411552	Sum	hucsvbh, huctvbh
MRS_UL_FE R_R3_RX_QU AL_R2	ACCUMULA TION	INT8	S3143A:Numbe r of MRs on Uplink FER ( Rank 3 and Receive Quality Rank 2)	B1275071634.C128 2411553	Sum	hucsvbh, huctvbh
MRS_UL_FE R_R3_RX_QU AL_R3	ACCUMULA TION	INT8	S3144A:Numbe r of MRs on Uplink FER ( Rank 3 and Receive Quality Rank 3)	B1275071634.C128 2411554	Sum	hucsvbh, huctvbh
MRS_UL_FE R_R3_RX_QU AL_R4	ACCUMULA TION	INT8	S3145A:Numbe r of MRs on Uplink FER ( Rank 3 and Receive Quality Rank 4)	B1275071634.C128 2411555	Sum	hucsvbh, huctvbh
MRS_UL_FE R_R3_RX_QU AL_R5	ACCUMULA TION	INT8	S3146A:Numbe r of MRs on Uplink FER	B1275071634.C128 2411556	Sum	hucsvbh, huctvbh

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			( Rank 3 and Receive Quality Rank 5)			
MRS_UL_FER_R3_RX_QUAL_R6	ACCUMULATION	INT8	S3147A: Number of MRs on Uplink FER ( Rank 3 and Receive Quality Rank 6)	B1275071634.C1282411557	Sum	hucsvbh, huctvbh
MRS_UL_FER_R3_RX_QUAL_R7	ACCUMULATION	INT8	S3148A: Number of MRs on Uplink FER ( Rank 3 and Receive Quality Rank 7)	B1275071634.C1282411558	Sum	hucsvbh, huctvbh
MRS_UL_FER_R4_RX_QUAL_R0	ACCUMULATION	INT8	S3149A: Number of MRs on Uplink FER ( Rank 4 and Receive Quality Rank 0)	B1275071634.C1282411559	Sum	hucsvbh, huctvbh
MRS_UL_FER_R4_RX_QUAL_R1	ACCUMULATION	INT8	S3150A: Number of MRs on Uplink FER ( Rank 4 and Receive Quality Rank 1)	B1275071634.C1282411560	Sum	hucsvbh, huctvbh
MRS_UL_FER_R4_RX_QUAL_R2	ACCUMULATION	INT8	S3151A: Number of MRs on Uplink FER ( Rank 4 and Receive Quality Rank 2)	B1275071634.C1282411561	Sum	hucsvbh, huctvbh
MRS_UL_FER_R4_RX_QUAL_R3	ACCUMULATION	INT8	S3152A: Number of MRs on Uplink FER ( Rank 4 and Receive Quality Rank 3)	B1275071634.C1282411562	Sum	hucsvbh, huctvbh
MRS_UL_FER_R4_RX_QUAL	ACCUMULATION	INT8	S3153A: Number of MRs on	B1275071634.C1282411563	Sum	hucsvbh, huctvbh

AL_R4			Uplink FER ( Rank 4 and Receive Quality Rank 4)			
MRS_UL_FE R_R4_RX_QU AL_R5	ACCUMULA TION	INT8	S3154A:Numbe r of MRs on Uplink FER ( Rank 4 and Receive Quality Rank 5)	B1275071634.C128 2411564	Sum	hucsvbh, huctvbh
MRS_UL_FE R_R4_RX_QU AL_R6	ACCUMULA TION	INT8	S3155A:Numbe r of MRs on Uplink FER ( Rank 4 and Receive Quality Rank 6)	B1275071634.C128 2411565	Sum	hucsvbh, huctvbh
MRS_UL_FE R_R4_RX_QU AL_R7	ACCUMULA TION	INT8	S3156A:Numbe r of MRs on Uplink FER ( Rank 4 and Receive Quality Rank 7)	B1275071634.C128 2411566	Sum	hucsvbh, huctvbh
MRS_UL_FE R_R5_RX_QU AL_R0	ACCUMULA TION	INT8	S3157A:Numbe r of MRs on Uplink FER ( Rank 5 and Receive Quality Rank 0)	B1275071634.C128 2411567	Sum	hucsvbh, huctvbh
MRS_UL_FE R_R5_RX_QU AL_R1	ACCUMULA TION	INT8	S3158A:Numbe r of MRs on Uplink FER ( Rank 5 and Receive Quality Rank 1)	B1275071634.C128 2411568	Sum	hucsvbh, huctvbh
MRS_UL_FE R_R5_RX_QU AL_R2	ACCUMULA TION	INT8	S3159A:Numbe r of MRs on Uplink FER ( Rank 5 and	B1275071634.C128 2411569	Sum	hucsvbh, huctvbh

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			Receive Quality Rank 2)			
MRS_UL_FER_R5_RX_QUAL_R3	ACCUMULATION	INT8	S3160A: Number of MRs on Uplink FER ( Rank 5 and Receive Quality Rank 3)	B1275071634.C128 2411570	Sum	hucsvbh, huctvbh
MRS_UL_FER_R5_RX_QUAL_R4	ACCUMULATION	INT8	S3161A: Number of MRs on Uplink FER ( Rank 5 and Receive Quality Rank 4)	B1275071634.C128 2411571	Sum	hucsvbh, huctvbh
MRS_UL_FER_R5_RX_QUAL_R5	ACCUMULATION	INT8	S3162A: Number of MRs on Uplink FER ( Rank 5 and Receive Quality Rank 5)	B1275071634.C128 2411572	Sum	hucsvbh, huctvbh
MRS_UL_FER_R5_RX_QUAL_R6	ACCUMULATION	INT8	S3163A: Number of MRs on Uplink FER ( Rank 5 and Receive Quality Rank 6)	B1275071634.C128 2411573	Sum	hucsvbh, huctvbh
MRS_UL_FER_R5_RX_QUAL_R7	ACCUMULATION	INT8	S3164A: Number of MRs on Uplink FER ( Rank 5 and Receive Quality Rank 7)	B1275071634.C128 2411574	Sum	hucsvbh, huctvbh
MRS_UL_FER_R6_RX_QUAL_R0	ACCUMULATION	INT8	S3165A: Number of MRs on Uplink FER ( Rank 6 and Receive Quality Rank 0)	B1275071634.C128 2411575	Sum	hucsvbh, huctvbh
MRS_UL_FER_R6_RX_QUAL_R1	ACCUMULATION	INT8	S3166A: Number of MRs on Uplink FER	B1275071634.C128 2411576	Sum	hucsvbh, huctvbh

			( Rank 6 and Receive Quality Rank 1)			
MRS_UL_FER_R6_RX_QUAL_R2	ACCUMULATION	INT8	S3167A: Number of MRs on Uplink FER ( Rank 6 and Receive Quality Rank 2)	B1275071634.C1282411577	Sum	hucsvbh, huctvbh
MRS_UL_FER_R6_RX_QUAL_R3	ACCUMULATION	INT8	S3168A: Number of MRs on Uplink FER ( Rank 6 and Receive Quality Rank 3)	B1275071634.C1282411578	Sum	hucsvbh, huctvbh
MRS_UL_FER_R6_RX_QUAL_R4	ACCUMULATION	INT8	S3169A: Number of MRs on Uplink FER ( Rank 6 and Receive Quality Rank 4)	B1275071634.C1282411579	Sum	hucsvbh, huctvbh
MRS_UL_FER_R6_RX_QUAL_R5	ACCUMULATION	INT8	S3170A: Number of MRs on Uplink FER ( Rank 6 and Receive Quality Rank 5)	B1275071634.C1282411580	Sum	hucsvbh, huctvbh
MRS_UL_FER_R6_RX_QUAL_R6	ACCUMULATION	INT8	S3171A: Number of MRs on Uplink FER ( Rank 6 and Receive Quality Rank 6)	B1275071634.C1282411581	Sum	hucsvbh, huctvbh
MRS_UL_FER_R6_RX_QUAL_R7	ACCUMULATION	INT8	S3172A: Number of MRs on Uplink FER ( Rank 6 and Receive Quality Rank 7)	B1275071634.C1282411582	Sum	hucsvbh, huctvbh

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			Rank 7)			
MRS_UL_FER_R7_RX_QUAL_R0	ACCUMULATION	INT8	S3173A: Number of MRs on Uplink FER ( Rank 7 and Receive Quality Rank 0)	B1275071634.C128 2411583	Sum	hucsvbh, huctvbh
MRS_UL_FER_R7_RX_QUAL_R1	ACCUMULATION	INT8	S3174A: Number of MRs on Uplink FER ( Rank 7 and Receive Quality Rank 1)	B1275071634.C128 2411584	Sum	hucsvbh, huctvbh
MRS_UL_FER_R7_RX_QUAL_R2	ACCUMULATION	INT8	S3175A: Number of MRs on Uplink FER ( Rank 7 and Receive Quality Rank 2)	B1275071634.C128 2411585	Sum	hucsvbh, huctvbh
MRS_UL_FER_R7_RX_QUAL_R3	ACCUMULATION	INT8	S3176A: Number of MRs on Uplink FER ( Rank 7 and Receive Quality Rank 3)	B1275071634.C128 2411586	Sum	hucsvbh, huctvbh
MRS_UL_FER_R7_RX_QUAL_R4	ACCUMULATION	INT8	S3177A: Number of MRs on Uplink FER ( Rank 7 and Receive Quality Rank 4)	B1275071634.C128 2411587	Sum	hucsvbh, huctvbh
MRS_UL_FER_R7_RX_QUAL_R5	ACCUMULATION	INT8	S3178A: Number of MRs on Uplink FER ( Rank 7 and Receive Quality Rank 5)	B1275071634.C128 2411588	Sum	hucsvbh, huctvbh
MRS_UL_FER_R7_RX_QUAL_R6	ACCUMULATION	INT8	S3179A: Number of MRs on Uplink FER ( Rank 7 and	B1275071634.C128 2411589	Sum	hucsvbh, huctvbh

			Receive Quality Rank 6)			
MRS_UL_FER_R7_RX_QUAL_R7	ACCUMULATION	INT8	S3180A: Number of MRs on Uplink FER ( Rank 7 and Receive Quality Rank 7)	B1275071634.C1282411590	Sum	hucsvbh, huctvbh
VOICE_ACT	INTENSITY	FLOAT	AS3101:VAC Compress Rate of Cell	B1275071634.C1278286433	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum

**7.9.55 Cell.Huawei.GSM.GMSK\_mean\_BEP\_different\_value**

GMSK mean BEP different value

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
BEP_GMSK_MEAN_BEP_EQU_1_NUM	ACCUMULATION	INTEGER	S9001: Number of Times GMSK_MEAN_BEP=1	B1275072529.C1279181417	Sum	hucsvbh, huctvbh
BEP_GMSK_MEAN_BEP_EQU_10_NUM	ACCUMULATION	INTEGER	S9010: Number of Times GMSK_MEAN_BEP=10	B1275072529.C1279181426	Sum	hucsvbh, huctvbh
BEP_GMSK_MEAN_BEP_EQU_11_NUM	ACCUMULATION	INTEGER	S9011: Number of Times GMSK_MEAN_BEP=11	B1275072529.C1279181427	Sum	hucsvbh, huctvbh
BEP_GMSK_MEAN_BEP_	ACCUMULATION	INTEGER	S9012: Number of Times	B1275072529.C1279181428	Sum	hucsvbh, huctvbh

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EQU_12_NUM			GMSK_MEAN_BEP=12			
BEP_GMSK_MEAN_BEP_EQU_13_NUM	ACCUMULATION	INTEGER	S9013: Number of Times GMSK_MEAN_BEP=13	B1275072529.C127 9181429	Sum	hucsvbh, huctvbh
BEP_GMSK_MEAN_BEP_EQU_14_NUM	ACCUMULATION	INTEGER	S9014: Number of Times GMSK_MEAN_BEP=14	B1275072529.C127 9181430	Sum	hucsvbh, huctvbh
BEP_GMSK_MEAN_BEP_EQU_15_NUM	ACCUMULATION	INTEGER	S9015: Number of Times GMSK_MEAN_BEP=15	B1275072529.C127 9181431	Sum	hucsvbh, huctvbh
BEP_GMSK_MEAN_BEP_EQU_16_NUM	ACCUMULATION	INTEGER	S9016: Number of Times GMSK_MEAN_BEP=16	B1275072529.C127 9181432	Sum	hucsvbh, huctvbh
BEP_GMSK_MEAN_BEP_EQU_17_NUM	ACCUMULATION	INTEGER	S9017: Number of Times GMSK_MEAN_BEP=17	B1275072529.C127 9181433	Sum	hucsvbh, huctvbh
BEP_GMSK_MEAN_BEP_EQU_18_NUM	ACCUMULATION	INTEGER	S9018: Number of Times GMSK_MEAN_BEP=18	B1275072529.C127 9181434	Sum	hucsvbh, huctvbh
BEP_GMSK_MEAN_BEP_EQU_19_NUM	ACCUMULATION	INTEGER	S9019: Number of Times GMSK_MEAN_BEP=19	B1275072529.C127 9181435	Sum	hucsvbh, huctvbh
BEP_GMSK_MEAN_BEP_EQU_2_NUM	ACCUMULATION	INTEGER	S9002: Number of Times GMSK_MEAN_BEP=2	B1275072529.C127 9181418	Sum	hucsvbh, huctvbh
BEP_GMSK_MEAN_BEP_EQU_20_NUM	ACCUMULATION	INTEGER	S9020: Number of Times GMSK_MEAN_BEP=20	B1275072529.C127 9181436	Sum	hucsvbh, huctvbh
BEP_GMSK_MEAN_BEP_	ACCUMULATION	INTEGER	S9021: Number of Times	B1275072529.C127 9181437	Sum	hucsvbh, huctvbh

EQU_21_NUM			GMSK_MEAN_BEP=21			
BEP_GMSK_MEAN_BEP_EQU_22_NUM	ACCUMULATION	INTEGER	S9022: Number of Times GMSK_MEAN_BEP=22	B1275072529.C127 9181438	Sum	hucsvbh, huctvbh
BEP_GMSK_MEAN_BEP_EQU_23_NUM	ACCUMULATION	INTEGER	S9023: Number of Times GMSK_MEAN_BEP=23	B1275072529.C127 9181439	Sum	hucsvbh, huctvbh
BEP_GMSK_MEAN_BEP_EQU_24_NUM	ACCUMULATION	INTEGER	S9024: Number of Times GMSK_MEAN_BEP=24	B1275072529.C127 9181440	Sum	hucsvbh, huctvbh
BEP_GMSK_MEAN_BEP_EQU_25_NUM	ACCUMULATION	INTEGER	S9025: Number of Times GMSK_MEAN_BEP=25	B1275072529.C127 9181441	Sum	hucsvbh, huctvbh
BEP_GMSK_MEAN_BEP_EQU_26_NUM	ACCUMULATION	INTEGER	S9026: Number of Times GMSK_MEAN_BEP=26	B1275072529.C127 9181442	Sum	hucsvbh, huctvbh
BEP_GMSK_MEAN_BEP_EQU_27_NUM	ACCUMULATION	INTEGER	S9027: Number of Times GMSK_MEAN_BEP=27	B1275072529.C127 9181443	Sum	hucsvbh, huctvbh
BEP_GMSK_MEAN_BEP_EQU_28_NUM	ACCUMULATION	INTEGER	S9028: Number of Times GMSK_MEAN_BEP=28	B1275072529.C127 9181444	Sum	hucsvbh, huctvbh
BEP_GMSK_MEAN_BEP_EQU_29_NUM	ACCUMULATION	INTEGER	S9029: Number of Times GMSK_MEAN_BEP=29	B1275072529.C127 9181445	Sum	hucsvbh, huctvbh
BEP_GMSK_MEAN_BEP_	ACCUMULATION	INTEGER	S9003: Number of Times	B1275072529.C127 9181419	Sum	hucsvbh, huctvbh

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EQU_3_NUM			GMSK_MEAN _BEP=3			
BEP_GMSK_MEAN_BEP_EQU_30_NUM	ACCUMULATION	INTEGER	S9030: Number of Times GMSK_MEAN _BEP=30	B1275072529.C127 9181446	Sum	hucsvbh, huctvbh
BEP_GMSK_MEAN_BEP_EQU_31_NUM	ACCUMULATION	INTEGER	S9031: Number of Times GMSK_MEAN _BEP=31	B1275072529.C127 9181447	Sum	hucsvbh, huctvbh
BEP_GMSK_MEAN_BEP_EQU_32_NUM	ACCUMULATION	INTEGER	S9032: Number of Times GMSK_MEAN _BEP=32	B1275072529.C127 9181448	Sum	hucsvbh, huctvbh
BEP_GMSK_MEAN_BEP_EQU_4_NUM	ACCUMULATION	INTEGER	S9004: Number of Times GMSK_MEAN _BEP=4	B1275072529.C127 9181420	Sum	hucsvbh, huctvbh
BEP_GMSK_MEAN_BEP_EQU_5_NUM	ACCUMULATION	INTEGER	S9005: Number of Times GMSK_MEAN _BEP=5	B1275072529.C127 9181421	Sum	hucsvbh, huctvbh
BEP_GMSK_MEAN_BEP_EQU_6_NUM	ACCUMULATION	INTEGER	S9006: Number of Times GMSK_MEAN _BEP=6	B1275072529.C127 9181422	Sum	hucsvbh, huctvbh
BEP_GMSK_MEAN_BEP_EQU_7_NUM	ACCUMULATION	INTEGER	S9007: Number of Times GMSK_MEAN _BEP=7	B1275072529.C127 9181423	Sum	hucsvbh, huctvbh
BEP_GMSK_MEAN_BEP_EQU_8_NUM	ACCUMULATION	INTEGER	S9008: Number of Times GMSK_MEAN _BEP=8	B1275072529.C127 9181424	Sum	hucsvbh, huctvbh
BEP_GMSK_MEAN_BEP_EQU_9_NUM	ACCUMULATION	INTEGER	S9009: Number of Times GMSK_MEAN _BEP=9	B1275072529.C127 9181425	Sum	hucsvbh, huctvbh

**7.9.56 Cell.Huawei.GSM.IBCA\_statistic**

Measurement of IBCA Statistic.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CHNLS_AFTER_IBCA_EVAL	ACCUMULATION	INTEGER	T3424: Number of Channels after IBCA Evaluation Used by the Call .Obsolete in V900R011.	B1275071829.C1278481427	Sum	
DL_CIR_CHNL_AFTER_IBCA_EVAL	ACCUMULATION	INTEGER	T3426: Downlink CIR of the Channel after IBCA Evaluation Used by the Call .Obsolete in V900R011.	B1275071829.C1278481429	Sum	
DL_SOFT_BLK_IN_NEW_CALL	ACCUMULATION	INTEGER	T3420: Number of Downlink Soft Blocks in New Call .Obsolete in V900R011.	B1275071829.C1278481424	Sum	
EVAL_IFER_TS_MAIO_P	ACCUMULATION	INTEGER	T3418: Number of Interference During the Evaluation of the Timeslot and MAIO Pair .Obsolete in V900R011.	B1275071829.C1278481422	Sum	
EVAL_TIMES_OF_TS_MAIO_P	ACCUMULATION	INTEGER	T3417: Evaluation Times of the Timeslot	B1275071829.C1278481421	Sum	

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			and MAIO Pair .Obsolete in V900R011.			
IBCA_EVAL_TIMES	ACCUMULATION	INTEGER	T3416:IBCA Evaluation Times .Obsolete in V900R011.	B1275071829.C12 78481420	Sum	
MEAN_DL_CIR_OPTIMUM_TS_MAIO_P	INTENSITY	FLOAT	T3428:Mean Downlink CIR of the Optimum Timeslot and MAIO Pair .Obsolete in V900R011.	B1275071829.C12 78481431	Average	Sum, Minimum, Maximum
MEAN_INTERFERENCE_CALL	INTENSITY	INTEGER	T3419:Mean Number of Interference Calls .Obsolete in V900R011.	B1275071829.C12 78481423	Average	Sum, Minimum, Maximum
MEAN_UL_CIR_OPTIMUM_TS_MAIO_P	INTENSITY	FLOAT	T3429:Mean Uplink CIR of the Optimum Timeslot and MAIO Pair .Obsolete in V900R011.	B1275071829.C12 78481432	Average	Sum, Minimum, Maximum
PATH_LOSS_N_CELL_BASEON_NRELAT	ACCUMULATION	INTEGER	T3415:Number of Times that the Path Losses of Neighboring Cells Are Estimated on the Basis of Neighboring Relations .Obsolete in V900R011.	B1275071829.C12 78481419	Sum	
PATH_LOSS_N_CELL_FR_CELL	ACCUMULATION	INTEGER	T3414:Number of Times that	B1275071829.C12 78481418	Sum	

DB			the Path Losses of Neighboring Cells Are Obtained from CELLDB .Obsolete in V900R011.			
PATH_LOSS_N CELL_FR_MSD B	ACCUMULA TION	INTEG ER	T3413:Numbe r of Times that the Path Losses of Neighboring Cells Are Obtained from MSDB .Obsolete in V900R011.	B1275071829.C12 78481417	Sum	
SOFT_BLK_IN_ ESTB_CALL	ACCUMULA TION	INTEG ER	T3422:Numbe r of Soft Blocks in Established Call .Obsolete in V900R011.	B1275071829.C12 78481426	Sum	
TIMES_TS_MAI O_P_ISBLK	ACCUMULA TION	INTEG ER	T3425:Numbe r of Times that the Timeslot and MAIO Pair Is Blocked .Obsolete in V900R011.	B1275071829.C12 78481428	Sum	
UL_CIR_CHNL_ AFTER_IBCA_ E VAL	ACCUMULA TION	INTEG ER	T3427:Uplink CIR of the Channel after IBCA Evaluation Used by the Call .Obsolete	B1275071829.C12 78481430	Sum	

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			in V900R011.			
UL_SOFT_BLK_IN_NEW_CALL	ACCUMULATION	INTEGER	T3421: Number of Uplink Soft Blocks in New Call .Obsolete in V900R011.	B1275071829.C1278481425	Sum	

### 7.9.57 Cell.Huawei.GSM.Immediate\_assignment\_request\_reject

Immediate assignment request and reject

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CH_REQ_CALL_REESTB	ACCUMULATION	INT8	A300E:Channel Requests (Call Re-establishment)	B1275071423.C1278075420	Sum	hucsvbh, huctvbh
CH_REQ_LMU_AND_RESERVE_D	ACCUMULATION	INT8	A300I:Channel Requests (LMU+Reserve d)	B1275071423.C1278075423	Sum	hucsvbh, huctvbh
CH_REQ_LOC_UPDATE	ACCUMULATION	INT8	A300F:Channel Requests (Location Updating)	B1275071423.C1278075421	Sum	hucsvbh, huctvbh
CH_REQ_PACKET_CALL	ACCUMULATION	INT8	A300H:Channel Requests (Packet Call)	B1275071423.C1278075422	Sum	hucsvbh, huctvbh
CH_REQ_PROTOCOL_INCOMPATIBLE	ACCUMULATION	INT8	A300K:Channel Requests (Protocol Incompatible)	B1275071423.C1278075482	Sum	hucsvbh, huctvbh
CM_SERV_REJ_CONG	ACCUMULATION	INT8	A3050:Rejects to Service Requests (Congestion)	B1275071423.C1278075457	Sum	hucsvbh, huctvbh
CM_SERV_REJ_MS_ILLEGAL	ACCUMULATION	INT8	A3052:Rejects to Service Requests	B1275071423.C1278075459	Sum	hucsvbh, huctvbh

			(Illegal MS)			
CM_SERV_REJ_NET_FAIL	ACCUMULATION	INT8	A3051:Rejects to Service Requests (Network Failure)	B1275071423.C12 78075458	Sum	hucsvbh, huctvbh
CM_SERV_REJ_OTHERS	ACCUMULATION	INT8	A3053:Rejects to Service Requests (Other Causes)	B1275071423.C12 78075460	Sum	hucsvbh, huctvbh
IMM_ASS_REJ_CS	ACCUMULATION	INT8	A302J:Rejects to Immediate Assignments (Circuit Service)	B1275071423.C12 78075428	Sum	hucsvbh, huctvbh
IMM_ASS_REJ_PS	ACCUMULATION	INT8	A302H:Rejects to Immediate Assignments (Packet Service)	B1275071423.C12 78075429	Sum	hucsvbh, huctvbh

### 7.9.58 Cell.Huawei.GSM.Immediate\_assignment\_overview

Immediate assignment overview

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
BSS_CALL_ESTB_SUCC_RATE	INTENSITY	FLOAT	RA333A:BSS Call Establishment Success Rate	B1275071423.C12 78075491	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CALL_CMP_SUCC_RATE	INTENSITY	FLOAT	RA333B:Call Complete	B1275071423.C12 78075492	Average	Average, hucsvbh,

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			Establishment Success Rate			huctvbh, Maximum, Minimum, Sum
CH_REQ_ECALL	ACCUMULATION	INT8	A300D:Channel Requests (Emergency Call)	B1275071423.C12 78075419	Sum	hucsvbh, huctvbh
CH_REQ_MOC	ACCUMULATION	INT8	A300A:Channel Requests (MOC)	B1275071423.C12 78075417	Sum	hucsvbh, huctvbh
CH_REQ_MTC	ACCUMULATION	INT8	A300C:Channel Requests (MTC)	B1275071423.C12 78075418	Sum	hucsvbh, huctvbh
CM_SERV_REJ	ACCUMULATION	INT8	CA305:Rejects to Service Requests	B1275071423.C12 78075469	Sum	hucsvbh, huctvbh
ESTB_IND_CA	ACCUMULATION	INTEGER	CA303A:Call Setup Indications (Call Type)	B1275071423.C12 78075487	Sum	hucsvbh, huctvbh
ESTB_IND_EXP	ACCUMULATION	INT8	CA304:Call Setup Indications Timed Out	B1275071423.C12 78075468	Sum	hucsvbh, huctvbh
ESTB_IND_NO_CA	ACCUMULATION	INTEGER	CA303B:Call Setup Indications (Non-Call Type)	B1275071423.C12 78075488	Sum	hucsvbh, huctvbh
ESTB_IND_PACKET	ACCUMULATION	INT8	CA303H:Call Setup Indications (Packet Service)	B1275071423.C12 78075467	Sum	hucsvbh, huctvbh
ESTB_IND_SUCCESS_RATE_ALL	INTENSITY	FLOAT	RA303H:Call Setup Indication Success Rate (Call Type)	B1275071423.C12 78075490	Average	Average, hucsvbh, huctvbh, Maximum,

						Minimum, Sum
ESTB_IND_SUCC_RATE_IMM_ASS	INTENSITY	FLOAT	RA303G:Success Rate of Call Setup (Immediate Assignment)	B1275071423.C1278075470	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
IMM_ASS_CMD_CA	ACCUMULATION	INTEGER	A301A:Immediate Assignment Commands (Call Type)	B1275071423.C1278075483	Sum	hucsvbh, huctvbh
IMM_ASS_CMD_CIRCUIT	ACCUMULATION	INT8	CA301J:Immediate Assignment Commands (Circuit Service)	B1275071423.C1278075466	Sum	hucsvbh, huctvbh
IMM_ASS_CMD_NO_CA	ACCUMULATION	INTEGER	A301B:Immediate Assignment Commands (Non-Call Type)	B1275071423.C1278075484	Sum	hucsvbh, huctvbh
IMM_ASS_CMD_PS	ACCUMULATION	INT8	A301H:Immediate Assignment Commands (Packet Service)	B1275071423.C1278075427	Sum	hucsvbh, huctvbh
IMM_ASS_REQ_CA	ACCUMULATION	INTEGER	CA300A:Channel Requests (Call Type)	B1275071423.C1278075485	Sum	hucsvbh, huctvbh
IMM_ASS_REQ_NO_CA	ACCUMULATION	INTEGER	CA300B:Channel Requests (Non-Call Type)	B1275071423.C1278075486	Sum	hucsvbh, huctvbh
IMM_ASS_REQ_Q	ACCUMULATION	INT8	CA300J:Channel Requests	B1275071423.C1278075461	Sum	hucsvbh, huctvbh

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			(Circuit Service)			
IMM_ASS_SUCC_TCH	ACCUMULATION	INT8	CA3039J:Call Setup Indications (TCH) (Circuit Service)	B1275071423.C1278075464	Sum	hucsvbh, huctvbh
IMM_ASS_SUCC	ACCUMULATION	INT8	CA303J:Call Setup Indications (Circuit Service)	B1275071423.C1278075462	Sum	hucsvbh, huctvbh
Local_Call_Indications_SigChannel	ACCUMULATION	INTEGER	A3046D:Number of Local Call Indications (Signaling Channel)	B1275071423.C1282429893	Sum	
Local_SMSs_Signaling_Channel	ACCUMULATION	INTEGER	A3046E:Number of Local SMSs (Signaling Channel)	B1275071423.C1282429894	Sum	
RANDOM_ACCESS_SUCC_RATE_CALL	INTENSITY	FLOAT	RA301H:Success Rate of Random Access (Call Type)	B1275071423.C1278075489	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
RANDOM_ACCESS_SUCC_RATE	INTENSITY	FLOAT	RA301G:Success Rate of Random Access	B1275071423.C1278075465	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
SD_SUCC_SPEECH	ACCUMULATION	INT8	A3039J:SDCCH Seizures for Speech Service	B1275071423.C1278075480	Sum	hucsvbh, huctvbh
SDCCH_Seizures_for_Unknown_srvc	ACCUMULATION	INTEGER	A3039K:SDCCH Seizures for Unknow	B1275071423.C1278075481	Sum	hucsvbh, huctvbh

			Service			
Success_Rate_of_Call_Setup_imm_Ass	INTENSITY	FLOAT	RA303I:Success Rate of Call Setup (Immediate Assignment)	B1275071423.C1278075495	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
TCH_SUCC_MOC	ACCUMULATION	INT8	CA3039E:Successful TCH Seizures for MOC	B1275071423.C1278075494	Sum	hucsvbh, huctvbh
TCH_SUCC_MTC	ACCUMULATION	INT8	CA3039C:Successful TCH Seizures for MTC	B1275071423.C1278075493	Sum	hucsvbh, huctvbh
TCHF_SZ_SPEECH_SERVICE	ACCUMULATION	INT8	A301F:TCHF Seizures for Speech Service	B1275071423.C1278075496	Sum	hucsvbh, huctvbh
TCHH_SZ_SPEECH_SERVICE	ACCUMULATION	INT8	A301HH:TCHH Seizures for Speech Service	B1275071423.C1278075497	Sum	hucsvbh, huctvbh
TO_Waiting_for_CC_Message_LU	ACCUMULATION	INTEGER	A3046C:Number of Timeouts Waiting for CC Message (Location Update)	B1275071423.C1282429848	Sum	
TO_Waiting_for_CC_Message_MI	ACCUMULATION	INTEGER	A3046A:Number of Timeouts Waiting for CC Message (Mobile Originated)	B1275071423.C1282429846	Sum	
TO_Waiting_for_CC_Message	ACCUMULATION	INTEGER	A3046B:Number of Timeouts	B1275071423.C1282429847	Sum	

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_MT			Waiting for CC Message (Mobile Terminated)			
TO_WAITING_MSC	ACCUMULATION	INT8	CA306:Timeouts Waiting MSC	B1275071423.C1282411686	Sum	hucsvbh, huctvbh

### 7.9.59 Cell.Huawei.GSM.Immediate\_assignment\_SDCCH

Immediate assignment SDCCH

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ESTB_IND_CALL_REESTB_SD	ACCUMULATION	INT8	A3030E:Call Setup Indications (Call Re-establishment) (SDCCH)	B1275071423.C1278075434	Sum	hucsvbh, huctvbh
ESTB_IND_EMERGENCY_CALL_SD	ACCUMULATION	INT8	A3030D:Call Setup Indications (Emergency Call) (SDCCH)	B1275071423.C1278075433	Sum	hucsvbh, huctvbh
ESTB_IND_EXPIRED_SD	ACCUMULATION	INT8	A3040:Call Setup Indications Timed Out (SDCCH)	B1275071423.C1278075454	Sum	hucsvbh, huctvbh
ESTB_IND_IMSI_DETACH_SD	ACCUMULATION	INT8	A3030G:Call Setup Indications (IMSI Detach) (SDCCH)	B1275071423.C1278075436	Sum	hucsvbh, huctvbh
ESTB_IND_LCS_SD	ACCUMULATION	INT8	A3030J:Call Setup Indications (LCS) (SDCCH)	B1275071423.C1278075472	Sum	hucsvbh, huctvbh
ESTB_IND_LOCAL_UPDATE_SD	ACCUMULATION	INT8	A3030F:Call Setup	B1275071423.C1278075435	Sum	hucsvbh, huctvbh

SD			Indications (Location Updating) (SDCCH)			
ESTB_IND_M OC_NONSMS _SD	ACCUMULA TION	INT8	A3030A:Call Setup Indications (MOC Non SMS) (SDCCH)	B1275071423.C127 8075430	Sum	hucsvbh, huctvbh
ESTB_IND_M OC_SMS_SD	ACCUMULA TION	INT8	A3030B:Call Setup Indications (MOC SMS) (SDCCH)	B1275071423.C127 8075431	Sum	hucsvbh, huctvbh
ESTB_IND_M TC_SD	ACCUMULA TION	INT8	A3030C:Call Setup Indications (MTC) (SDCCH)	B1275071423.C127 8075432	Sum	hucsvbh, huctvbh
ESTB_IND_O THER_SD	ACCUMULA TION	INT8	A3030K:Call Setup Indications (Others) (SDCCH)	B1275071423.C127 8075473	Sum	hucsvbh, huctvbh
ESTB_IND_PS _SD	ACCUMULA TION	INT8	A3030H:Call Setup Indications (Packet Service) (SDCCH)	B1275071423.C127 8075437	Sum	hucsvbh, huctvbh
ESTB_IND_SS _SD	ACCUMULA TION	INT8	A3030I:Call Setup Indications (SS) (SDCCH)	B1275071423.C127 8075471	Sum	hucsvbh, huctvbh
IMM_ASS_CM D_SD	ACCUMULA TION	INT8	A3010:Immedia te Assignment Commands (SDCCH)	B1275071423.C127 8075424	Sum	hucsvbh, huctvbh

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IMM_ASS_SU CC_SD	ACCUMULA TION	INT8	CA3030J:Call Setup Indications (SDCCH) (Circuit Service)	B1275071423.C127 8075463	Sum	hucsvbh, huctvbh
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### 7.9.60 Cell.Huawei.GSM.Immediate\_assignment\_TCHF

Immediate assignment TCHF

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ESTB_IND_C ALL_REESTB _TCHF	ACCUMULA TION	INT8	A3037E:Call Setup Indications (Call Re- establishment) (TCHF)	B1275071423.C12 78075442	Sum	hucsvbh, huctvbh
ESTB_IND_E CALL_TCHF	ACCUMULA TION	INT8	A3037D:Call Setup Indications (Emergency Call) (TCHF)	B1275071423.C12 78075441	Sum	hucsvbh, huctvbh
ESTB_IND_E XP_TCHF	ACCUMULA TION	INT8	A3047:Call Setup Indications Timed Out (TCHF)	B1275071423.C12 78075455	Sum	hucsvbh, huctvbh
ESTB_IND_I MSI_DETAC H_TCHF	ACCUMULA TION	INT8	A3037G:Call Setup Indications (IMSI Detach) (TCHF)	B1275071423.C12 78075444	Sum	hucsvbh, huctvbh
ESTB_IND_L CS_TCHF	ACCUMULA TION	INT8	A3037J:Call Setup Indications (LCS) (TCHF)	B1275071423.C12 78075475	Sum	hucsvbh, huctvbh
ESTB_IND_L OC_UPD_TC HF	ACCUMULA TION	INTEG ER	A3037F:Call Setup ind (Location Updating)	B1275071423.C12 78075443	Sum	hucsvbh, huctvbh

			(TCHF)			
ESTB_IND_MOC_NONSMS_TCHF	ACCUMULATION	INT8	A3037A:Call Setup Indications (MOC Non SMS) (TCHF)	B1275071423.C12 78075438	Sum	hucsvbh, huctvbh
ESTB_IND_MOC_SMS_TCHF	ACCUMULATION	INT8	A3037B:Call Setup Indications (MOC SMS) (TCHF)	B1275071423.C12 78075439	Sum	hucsvbh, huctvbh
ESTB_IND_MTC_TCHF	ACCUMULATION	INT8	A3037C:Call Setup Indications (MTC) (TCHF)	B1275071423.C12 78075440	Sum	hucsvbh, huctvbh
ESTB_IND_OTHER_TCHF	ACCUMULATION	INT8	A3037K:Call Setup Indications (Others) (TCHF)	B1275071423.C12 78075476	Sum	hucsvbh, huctvbh
ESTB_IND_PS_TCHF	ACCUMULATION	INT8	A3037H:Call Setup Indications (Packet Service) (TCHF)	B1275071423.C12 78075445	Sum	hucsvbh, huctvbh
ESTB_IND_SS_TCHF	ACCUMULATION	INT8	A3037I:Call Setup Indications (SS) (TCHF)	B1275071423.C12 78075474	Sum	hucsvbh, huctvbh
IMM_ASS_CMD_TCHF	ACCUMULATION	INT8	A3017:Immediate Assignment Commands (TCHF)	B1275071423.C12 78075425	Sum	hucsvbh, huctvbh

### 7.9.61 Cell.Huawei.GSM.Immediate\_assignment\_TCHH

Immediate assignment TCHH

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<b>KPI</b>	<b>Type</b>	<b>Data Type</b>	<b>Description</b>	<b>Derivation</b>	<b>Default Aggregator</b>	<b>Other Aggregators</b>
ESTB_IND_CALL_REESTB_TCHH	ACCUMULATION	INT8	A3038E:Call Setup Indications (Call Re-establishment) (TCHH)	B1275071423.C1278075450	Sum	hucsvbh, huctvbh
ESTB_IND_emerg_Call_TCHH	ACCUMULATION	INTEGER	A3038D:Call Setup ind (Emergency Call) (TCHH)	B1275071423.C1278075449	Sum	hucsvbh, huctvbh
ESTB_IND_EXP_TCHH	ACCUMULATION	INT8	A3048:Call Setup Indications Timed Out (TCHH)	B1275071423.C1278075456	Sum	hucsvbh, huctvbh
ESTB_IND_IMSI_Detach_TCHH	ACCUMULATION	INTEGER	A3038G:Call Setup ind (IMSI Detach)(TCHH)	B1275071423.C1278075452	Sum	hucsvbh, huctvbh
ESTB_IND_LCS_TCHH	ACCUMULATION	INT8	A3038J:Call Setup Indications (LCS) (TCHH)	B1275071423.C1278075478	Sum	hucsvbh, huctvbh
ESTB_IND_location_upd_TCHH	ACCUMULATION	INTEGER	A3038F:Call Setup ind (Location Updating) (TCHH)	B1275071423.C1278075451	Sum	hucsvbh, huctvbh
ESTB_IND_MOC_NONSMS_TCHH	ACCUMULATION	INT8	A3038A:Call Setup Indications (MOC Non SMS) (TCHH)	B1275071423.C1278075446	Sum	hucsvbh, huctvbh
ESTB_IND_MOC_SMS_TCHH	ACCUMULATION	INTEGER	A3038B:Call Setup ind (MOC SMS) (TCHH)	B1275071423.C1278075447	Sum	hucsvbh, huctvbh
ESTB_IND_M	ACCUMULATION	INT8	A3038C:Call	B1275071423.C12	Sum	hucsvbh,

TC_TCHH	TION		Setup Indications (MTC) (TCHH)	78075448		huctvbh
ESTB_IND_OTHER_TCHH	ACCUMULATION	INT8	A3038K:Call Setup Indications (Others) (TCHH)	B1275071423.C12 78075479	Sum	hucsvbh, huctvbh
ESTB_IND_PS_TCHH	ACCUMULATION	INT8	A3038H:Call Setup Indications (Packet Service) (TCHH)	B1275071423.C12 78075453	Sum	hucsvbh, huctvbh
ESTB_IND_SS_TCHH	ACCUMULATION	INT8	A3038I:Call Setup Indications (SS) (TCHH)	B1275071423.C12 78075477	Sum	hucsvbh, huctvbh
IMM_ASS_CMD_TCHH	ACCUMULATION	INT8	A3018:Immediate Assignment Commands (TCHH)	B1275071423.C12 78075426	Sum	hucsvbh, huctvbh

### 7.9.62 Cell.Huawei.GSM.Incom\_ext\_intercell\_handover

Incoming external intercell handover

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
FAIL_HO_CLR_CMD_EQUIP_FAIL	ACCUMULATION	INT8	H342HD:Failed Incoming External Inter-Cell Handovers (Clear Commands Sent By MSC) (Equipment	B1275071428.C1 278080488	Sum	hucsvbh, huctvbh

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			failure)			
FAIL_HO_CLR_CMD_INVALID_MSG	ACCUMULATION	INT8	H342HF:Failed Incoming External Inter-Cell Handovers (Clear Commands Sent By MSC) (Invalid message contents)	B1275071428.C1 278080490	Sum	hucsvbh, huctvbh
FAIL_HO_CLR_CMD_O_M_ITV_N	ACCUMULATION	INT8	H342HC:Failed Incoming External Inter-Cell Handovers (Clear Commands Sent By MSC) (O and M intervention)	B1275071428.C1 278080487	Sum	hucsvbh, huctvbh
FAIL_HO_CLR_CMD_OTHER	ACCUMULATION	INT8	H342HH:Failed Incoming External Inter-Cell Handovers (Clear Commands Sent By MSC) (Other)	B1275071428.C1 278080492	Sum	hucsvbh, huctvbh
FAIL_HO_CLR_CMD_PREEMPT	ACCUMULATION	INT8	H342HE:Failed Incoming External Inter-Cell Handovers (Clear Commands Sent By MSC) (Preemption)	B1275071428.C1 278080489	Sum	hucsvbh, huctvbh
FAIL_HO_CLR_CMD_PROTOCOL_ERR	ACCUMULATION	INT8	H342HG:Failed Incoming External Inter-	B1275071428.C1 278080491	Sum	hucsvbh, huctvbh

			Cell Handovers (Clear Commands Sent By MSC) (Protocol Error between BSS and MSC)			
FAIL_HO_CLR_CMD_RADIO_FAIL	ACCUMULATION	INT8	H342HB:Failed Incoming External Inter-Cell Handovers (Clear Commands Sent By MSC) (Radio interface failure)	B1275071428.C1 278080486	Sum	hucsvbh, huctvbh
FAIL_HO_CLR_CMD_RADIO_MSG_FAIL	ACCUMULATION	INT8	H342HA:Failed Incoming External Inter-Cell Handovers (Clear Commands Sent By MSC) (Radio interface message failure)	B1275071428.C1 278080485	Sum	hucsvbh, huctvbh
Failed_Inc_Ext_InterCellHO	ACCUMULATION	INTEGER	CH3429A: Number of Failed Incoming External Inter-Cell Handovers(TCH)	B1275071428.C1 282448079	Sum	
HO_CMD_SD_1	ACCUMULATION	INT8	H3410X:Inco	B1275071428.C1	Sum	hucsvbh,

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800_1800	TION		ming External Inter-Cell Handover Responses (SDCCH) (1800/1900-1800/1900)	278080426		huctvbh
HO_CMD_SD_1800_900	ACCUMULATION	INT8	H3410Z:Incoming External Inter-Cell Handover Responses (SDCCH) (1800/1900-900/850)	B1275071428.C1278080428	Sum	hucsvbh, huctvbh
HO_CMD_SD_900_1800	ACCUMULATION	INT8	H3410Y:Incoming External Inter-Cell Handover Responses (SDCCH) (900/850-1800/1900)	B1275071428.C1278080427	Sum	hucsvbh, huctvbh
HO_CMD_SD_900_900	ACCUMULATION	INT8	H3410W:Incoming External Inter-Cell Handover Responses (SDCCH) (900/850-900/850)	B1275071428.C1278080425	Sum	hucsvbh, huctvbh
HO_CMD_TCHF_1800_1800	ACCUMULATION	INT8	H3417X:Incoming External Inter-Cell Handover Responses (TCHF) (1800/1900-1800/1900)	B1275071428.C1278080430	Sum	hucsvbh, huctvbh
HO_CMD_TCHF_1800_900	ACCUMULATION	INT8	H3417Z:Incoming External Inter-Cell Handover	B1275071428.C1278080432	Sum	hucsvbh, huctvbh

			Responses (TCHF) (1800/1900-900/850)			
HO_CMD_TCHF_900_1800	ACCUMULATION	INT8	H3417Y:Incoming External Inter-Cell Handover Responses (TCHF) (900/850-1800/1900)	B1275071428.C1278080431	Sum	hucsvbh, huctvbh
HO_CMD_TCHF_900_900	ACCUMULATION	INT8	H3417W:Incoming External Inter-Cell Handover Responses (TCHF) (900/850-900/850)	B1275071428.C1278080429	Sum	hucsvbh, huctvbh
HO_CMD_TCHH_1800_1800	ACCUMULATION	INT8	H3418X:Incoming External Inter-Cell Handover Responses (TCHH) (1800/1900-1800/1900)	B1275071428.C1278080434	Sum	hucsvbh, huctvbh
HO_CMD_TCHH_1800_900	ACCUMULATION	INT8	H3418Z:Incoming External Inter-Cell Handover Responses (TCHH) (1800/1900-900/850)	B1275071428.C1278080436	Sum	hucsvbh, huctvbh
HO_CMD_TCHH_900_1800	ACCUMULATION	INT8	H3418Y:Incoming External	B1275071428.C1278080435	Sum	hucsvbh, huctvbh

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			Inter-Cell Handover Responses (TCHH) (900/850-1800/1900)			
HO_CMD_TCHH_900_900	ACCUMULATION	INT8	H3418W:Incoming External Inter-Cell Handover Responses (TCHH) (900/850-900/850)	B1275071428.C1 278080433	Sum	hucsvbh, huctvbh
HO_DETECT_SD	ACCUMULATION	INT8	H3440:Incoming External Inter-Cell Handover Detection Messages Received by BSC (SDCCH)	B1275071428.C1 278080463	Sum	hucsvbh, huctvbh
HO_DETECT_TCHF	ACCUMULATION	INT8	H3447:Incoming External Inter-Cell Handover Detection Messages Received by BSC (TCHF)	B1275071428.C1 278080464	Sum	hucsvbh, huctvbh
HO_DETECT_TCHH	ACCUMULATION	INT8	H3448:Incoming External Inter-Cell Handover Detection Messages Received by BSC (TCHH)	B1275071428.C1 278080465	Sum	hucsvbh, huctvbh
HO_FAIL_APPLY_TRSL_FAIL	ACCUMULATION	INT8	H342B:Failed Incoming External Inter-Cell Handovers	B1275071428.C1 278080458	Sum	hucsvbh, huctvbh

			(Terrestrial Resource Request Failed)			
HO_FAIL_CIC_AVAIL	ACCUMULATION	INT8	H342F:Failed Incoming External Inter-Cell Handovers (CIC Allocated)	B1275071428.C1 278080457	Sum	hucsvbh, huctvbh
HO_FAIL_CONG_SD	ACCUMULATION	INT8	H3420A:Failed Incoming External Inter-Cell Handovers (No Channel Available) (SDCCH)	B1275071428.C1 278080454	Sum	hucsvbh, huctvbh
HO_FAIL_CONG_TCH	ACCUMULATION	INT8	H3429A:Failed Incoming External Inter-Cell Handovers (No Channel Available) (TCH)	B1275071428.C1 278080455	Sum	hucsvbh, huctvbh
HO_FAIL_CONENTS_INVALID	ACCUMULATION	INT8	H342I:Failed Incoming External Inter-Cell Handovers (Invalid Message)	B1275071428.C1 278080453	Sum	hucsvbh, huctvbh
HO_FAIL_EXP_SD	ACCUMULATION	INT8	H3420C:Failed Incoming External Inter-Cell	B1275071428.C1 278080460	Sum	hucsvbh, huctvbh

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			Handovers (Timer Expired) (SDCCH)			
HO_FAIL_EXP_TCH_SIG	ACCUMULATION	INT8	H3429Cb:Failed Incoming External Inter-Cell Handovers (Timer Expired) (TCH) (Signaling Channel)	B1275071428.C1 278080461	Sum	hucsvbh, huctvbh
HO_FAIL_EXP_TCH_TRAF	ACCUMULATION	INT8	H3429Ca:Failed Incoming External Inter-Cell Handovers (Timer Expired) (TCH) (Traffic Channel)	B1275071428.C1 278080462	Sum	hucsvbh, huctvbh
HO_FAIL_MSC_CLR_CMD	ACCUMULATION	INT8	H342H:Failed Incoming External Inter-Cell Handovers (Clear Commands Sent By MSC)	B1275071428.C1 278080459	Sum	hucsvbh, huctvbh
HO_FAIL_NO_CIC	ACCUMULATION	INT8	H342E:Failed Incoming External Inter-Cell Handovers (CIC Unavailable)	B1275071428.C1 278080456	Sum	hucsvbh, huctvbh
HO_FAIL_SD_1800_1800	ACCUMULATION	INT8	H3420X:Failed Incoming External Inter-Cell Handovers	B1275071428.C1 278080438	Sum	hucsvbh, huctvbh

			(SDCCH) (1800/1900-1800/1900)			
HO_FAIL_SD_1800_900	ACCUMULATION	INT8	H3420Z:Failed Incoming External Inter-Cell Handovers (SDCCH) (1800/1900-900/850)	B1275071428.C1 278080440	Sum	hucsvbh, huctvbh
HO_FAIL_SD_900_1800	ACCUMULATION	INT8	H3420Y:Failed Incoming External Inter-Cell Handovers (SDCCH) (900/850-1800/1900)	B1275071428.C1 278080439	Sum	hucsvbh, huctvbh
HO_FAIL_SD_900_900	ACCUMULATION	INT8	H3420W:Failed Incoming External Inter-Cell Handovers (SDCCH) (900/850-900/850)	B1275071428.C1 278080437	Sum	hucsvbh, huctvbh
HO_FAIL_TCH_1800_1800	ACCUMULATION	INT8	H3429X:Failed Incoming External Inter-Cell Handovers (TCH) (1800/1900-1800/1900)	B1275071428.C1 278080442	Sum	hucsvbh, huctvbh
HO_FAIL_TCH_1800_900	ACCUMULATION	INT8	H3429Z:Failed Incoming External Inter-	B1275071428.C1 278080444	Sum	hucsvbh, huctvbh

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			Cell Handovers (TCH) (1800/1900-900/850)			
HO_FAIL_TCH_900_1800	ACCUMULATION	INT8	H3429Y:Failed Incoming External Inter-Cell Handovers (TCH) (900/850-1800/1900)	B1275071428.C1 278080443	Sum	hucsvbh, huctvbh
HO_FAIL_TCH_900_900	ACCUMULATION	INT8	H3429W:Failed Incoming External Inter-Cell Handovers (TCH) (900/850-900/850)	B1275071428.C1 278080441	Sum	hucsvbh, huctvbh
HO_REQ_SD_1800_1800	ACCUMULATION	INT8	H3400X:Incoming External Inter-Cell Handover Requests (SDCCH) (1800/1900-1800/1900)	B1275071428.C1 278080418	Sum	hucsvbh, huctvbh
HO_REQ_SD_1800_900	ACCUMULATION	INT8	H3400Z:Incoming External Inter-Cell Handover Requests (SDCCH) (1800/1900-900/850)	B1275071428.C1 278080420	Sum	hucsvbh, huctvbh
HO_REQ_SD_900_1800	ACCUMULATION	INT8	H3400Y:Incoming External Inter-Cell Handover Requests (SDCCH)	B1275071428.C1 278080419	Sum	hucsvbh, huctvbh

			(900/850-1800/1900)			
HO_REQ_SD_900_900	ACCUMULATION	INT8	H3400W:Incoming External Inter-Cell Handover Requests (SDCCH) (900/850-900/850)	B1275071428.C1 278080417	Sum	hucsvbh, huctvbh
HO_REQ_TCH_1800_1800	ACCUMULATION	INT8	H3409X:Incoming External Inter-Cell Handover Requests (TCH) (1800/1900-1800/1900)	B1275071428.C1 278080422	Sum	hucsvbh, huctvbh
HO_REQ_TCH_1800_900	ACCUMULATION	INT8	H3409Z:Incoming External Inter-Cell Handover Requests (TCH) (1800/1900-900/850)	B1275071428.C1 278080424	Sum	hucsvbh, huctvbh
HO_REQ_TCH_900_1800	ACCUMULATION	INT8	H3409Y:Incoming External Inter-Cell Handover Requests (TCH) (900/850-1800/1900)	B1275071428.C1 278080423	Sum	hucsvbh, huctvbh
HO_REQ_TCH_900_900	ACCUMULATION	INT8	H3409W:Incoming External Inter-Cell Handover	B1275071428.C1 278080421	Sum	hucsvbh, huctvbh

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			Requests (TCH) (900/850-900/850)			
HO_REQ_TCH_CHG	ACCUMULATION	INTEGER	H3401I:Incoming External Inter-Cell Handover TCH Requests (TCHF or TCHH, Channel Type Changeable)	B1275071428.C1 278080452	Sum	hucsvbh, huctvbh
HO_REQ_TCH_NOCHG	ACCUMULATION	INTEGER	H3401F:Incoming External Inter-Cell Handover TCH Requests (TCHF or TCHH, Channel Type Unchangeable)	B1275071428.C1 278080451	Sum	hucsvbh, huctvbh
HO_REQ_TCHF_ONLY	ACCUMULATION	INTEGER	H3401B:Incoming External Inter-Cell Handover TCH Requests (TCHF Only)	B1275071428.C1 278080445	Sum	hucsvbh, huctvbh
HO_REQ_TCHF_PREF_CHG	ACCUMULATION	INTEGER	H3401G:Incoming External Inter-Cell Handover TCH Requests (TCHF Preferred, Channel Type Changeable)	B1275071428.C1 278080449	Sum	hucsvbh, huctvbh
HO_REQ_TCHF_PREF_NOCHG	ACCUMULATION	INTEGER	H3401D:Incoming External Inter-Cell Handover TCH Requests (TCHF	B1275071428.C1 278080447	Sum	hucsvbh, huctvbh

			Preferred, Channel Type Unchangeable)			
HO_REQ_TCHH_ONLY	ACCUMULATION	INTEGER	H3401C:Incoming External Inter-Cell Handover TCH Requests (TCHH Only)	B1275071428.C1 278080446	Sum	hucsvbh, huctvbh
HO_REQ_TCHH_PREF_CHG	ACCUMULATION	INTEGER	H3401H:Incoming External Inter-Cell Handover TCH Requests (TCHH Preferred, Channel Type Changeable)	B1275071428.C1 278080450	Sum	hucsvbh, huctvbh
HO_REQ_TCHH_PREF_NOCHG	ACCUMULATION	INTEGER	H3401E:Incoming External Inter-Cell Handover TCH Requests (TCHH Preferred, Channel Type Unchangeable)	B1275071428.C1 278080448	Sum	hucsvbh, huctvbh
Inc_External_InterCellHOReqTCH	ACCUMULATION	INTEGER	CH3409A: Number of Incoming External Inter-Cell Handover Requests(TCH)	B1275071428.C1 282448077	Sum	
Inc_External_InterCellHOResTCH	ACCUMULATION	INTEGER	CH3419A: Number of Incoming External Inter-	B1275071428.C1 282448078	Sum	

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			Cell Handover Responses(TCH)			
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### 7.9.63 Cell.Huawei.GSM.Incom\_ext\_intercell\_HO\_overview

Incoming external intercell handover overview

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
BSCTOBSC_HO_DETECT_S PCH_VER_3_T CHF	ACCUMULATION	INT8	H3881A:BSC-to-BSC Incoming Cell Handover Detection Times (AMR) (TCHF)	B1275071428.C12 78080483	Sum	hucsvbh, huctvbh
BSCTOBSC_HO_DETECT_S PCH_VER_3_T CHH	ACCUMULATION	INT8	H3882A:BSC-to-BSC Incoming Cell Handover Detection Times (AMR) (TCHH)	B1275071428.C12 78080484	Sum	hucsvbh, huctvbh
CLEAR_CMD_AFTER_HO_CMD	ACCUMULATION	INTEGER	H345B:Incoming External Inter-Cell Handover Clear Cmd Times (After Handover Response)	B1275071428.C12 78080481	Sum	hucsvbh, huctvbh
CLEAR_CMD_BEFORE_HO_CMD	ACCUMULATION	INTEGER	H345A:Incoming External Inter-Cell Handover Clear Cmd Times (Before Handover Response)	B1275071428.C12 78080480	Sum	hucsvbh, huctvbh
HO_DETECT	ACCUMULATION	INT8	CH344:Incoming	B1275071428.C12	Sum	hucsvbh,

	TION		ng External Inter-Cell Handover Detection Messages Received by BSC	78080471		huctvbh
HO_FAIL_EXP	ACCUMULATION	INT8	CH342C:Failed Incoming External Inter-Cell Handovers (Timer Expired)	B1275071428.C12 78080473	Sum	hucsvbh, huctvbh
HO_FAIL_NO_IDLE_ABIS	ACCUMULATION	INT8	H342L:Number of Incoming BSC Handover Failures Due to No Abis Resources Available	B1275071428.C12 78080478	Sum	hucsvbh, huctvbh
HO_FAIL_NO_SPEECH_VERSION	ACCUMULATION	INT8	H342J:Failed Incoming External Inter-Cell Handovers (Requested Speech Version Unavailable)	B1275071428.C12 78080479	Sum	hucsvbh, huctvbh
HO_FAIL_RADIO_INTERRUPT_FAILURE	ACCUMULATION	INTEGER	CH342D:External Incoming Cell Handover Failures (Failed to Seize a New Channel)	B1275071428.C12 78080474	Sum	hucsvbh, huctvbh
HO_FAIL	ACCUMULATION	INT8	CH342:Failed Incoming External Inter-Cell Handovers	B1275071428.C12 78080472	Sum	hucsvbh, huctvbh
HO_REQ_ACK	ACCUMULATION	INT8	CH341:Incomi	B1275071428.C12	Sum	hucsvbh,

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	TION		ng External Inter-Cell Handover Responses	78080468		huctvbh
HO_REQ_BETTER_CELL	ACCUMULATION	INT8	CH346:Incoming External Inter-Cell Handover Requests(Better Cell)	B1275071428.C12 78080476	Sum	hucsvbh, huctvbh
HO_REQ_TA	ACCUMULATION	INTEGER	CH345:Incoming External Inter-Cell Handover Requests(Timing Advance)	B1275071428.C12 78080475	Sum	hucsvbh, huctvbh
HO_REQ_TCH	ACCUMULATION	INTEGER	CH340:Incoming External Inter-Cell Handover TCH Requests	B1275071428.C12 78080470	Sum	hucsvbh, huctvbh
HO_REQ	ACCUMULATION	INT8	CH340:Incoming External Inter-Cell Handover Requests	B1275071428.C12 78080466	Sum	hucsvbh, huctvbh
HO_SUCC_RATE	INTENSITY	FLOAT	TH343:Success Rate of Incoming External Inter-Cell Handover	B1275071428.C12 78080469	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
HO_SUCC	ACCUMULATION	INT8	CH343:Successful Incoming External Inter-Cell Handovers	B1275071428.C12 78080467	Sum	hucsvbh, huctvbh
INHO_REQ_TA	ACCUMULATION	INT8	CH347:Incoming Inter-Cell Handover Requests	B1275071428.C12 78080477	Sum	hucsvbh, huctvbh

			(Timing Advance)			
INTERBSC_R D_HO_SUCC_ RATE	INTENSITY	FLOA T	RH303D:Exter nal Incoming Radio Handover Success Ratio per cell	B1275071428.C12 78080482	Average	Average, hucsvbh, huctvbh, Maximu m, Minimu m, Sum

### 7.9.64 Cell.Huawei.GSM.Incom\_int\_intercell\_HO\_failures

Incoming internal intercell handover failures

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
FAIL_HO_OVE RLAID_TO_O VERLAID	ACCUMULA TION	INT8	H322II:Numbe r of Failed Incoming Internal Inter- Cell Handovers (Overlaid to Overlaid)	B1275071426.C12 78078515	Sum	hucsvbh, huctvbh
FAIL_HO_OVE RLAID_TO_U NDERLAID	ACCUMULA TION	INT8	H322IO:Numbe r of Failed Incoming Internal Inter- Cell Handovers (Overlaid to Underlaid)	B1275071426.C12 78078514	Sum	hucsvbh, huctvbh
FAIL_HO_UN DERLAID_TO_ OVERLAID	ACCUMULA TION	INT8	H322OI:Numbe r of Failed Incoming Internal Inter- Cell Handovers (Underlaid to Overlaid)	B1275071426.C12 78078513	Sum	hucsvbh, huctvbh

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FAIL_HO_UN DERLAID_TO_ UNDERLAID	ACCUMULA TION	INT8	H322OO:Numb er of Failed Incoming Internal Inter- Cell Handovers (Underlaid to Underlaid)	B1275071426.C12 78078512	Sum	hucsvbh, huctvbh
Failed_Inc_Int_I nterCellHO	ACCUMULA TION	INTEG ER	CH3229A:Num ber of Failed Incoming Internal Inter- Cell Handovers(TC H)	B1275071426.C12 82448076	Sum	
HO_FAIL_A_I NTERF_FAIL	ACCUMULA TION	INT8	H322G:Failed Incoming Internal Inter- Cell Handovers (A Interface Failure)	B1275071426.C12 78078449	Sum	hucsvbh, huctvbh
HO_FAIL_APP PLY_TRSL_FAI L	ACCUMULA TION	INT8	H322B:Failed Incoming Internal Inter- Cell Handovers (Terrestrial Resource Request Failed)	B1275071426.C12 78078447	Sum	hucsvbh, huctvbh
HO_FAIL_BSC _LOOP	ACCUMULA TION	INT8	H322a:Number of Intra-BSC Incoming Cell Handover Failures During BSC Loopback	B1275071426.C12 78078470	Sum	hucsvbh, huctvbh
HO_FAIL_BTS _LOOP	ACCUMULA TION	INT8	H322:Number of Intra-BSC Incoming Cell Handover Failures During BTS Loopback	B1275071426.C12 78078471	Sum	hucsvbh, huctvbh
HO_FAIL_CH ACT_FAIL	ACCUMULA TION	INT8	H322I:Failed Incoming Internal Inter-	B1275071426.C12 78078482	Sum	hucsvbh, huctvbh

			Cell Handovers (Channel Activation Failed)			
HO_FAIL_CO NG_SD	ACCUMULA TION	INT8	H3220A:Failed Incoming Internal Inter- Cell Handovers (No Channel Available) (SDCCH)	B1275071426.C12 78078445	Sum	hucsvbh, huctvbh
HO_FAIL_CO NG_TCH	ACCUMULA TION	INT8	H3229A:Failed Incoming Internal Inter- Cell Handovers (No Channel Available) (TCH)	B1275071426.C12 78078446	Sum	hucsvbh, huctvbh
HO_FAIL_EXP _SD	ACCUMULA TION	INT8	H3220C:Failed Incoming Internal Inter- Cell Handovers (Timer Expired) (SDCCH)	B1275071426.C12 78078450	Sum	hucsvbh, huctvbh
HO_FAIL_EXP _TCHF_SIG	ACCUMULA TION	INT8	H3227Cb:Faile d Incoming Internal Inter- Cell Handovers (Timer Expired) (TCHF) (Signaling Channel)	B1275071426.C12 78078451	Sum	hucsvbh, huctvbh
HO_FAIL_EXP _TCHF_TRAF	ACCUMULA TION	INT8	H3227Ca:Faile d Incoming Internal Inter- Cell Handovers	B1275071426.C12 78078453	Sum	hucsvbh, huctvbh

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			(Timer Expired) (TCHF) (Traffic Channel)			
HO_FAIL_EXP_TCHH_SIG	ACCUMULATION	INT8	H3228Cb:Failed Incoming Internal Inter-Cell Handovers (Timer Expired) (TCHH) (Signaling Channel)	B1275071426.C12 78078452	Sum	hucsvbh, huctvbh
HO_FAIL_EXP_TCHH_TRAF	ACCUMULATION	INT8	H3228Ca:Failed Incoming Internal Inter-Cell Handovers (Timer Expired) (TCHH) (Traffic Channel)	B1275071426.C12 78078454	Sum	hucsvbh, huctvbh
HO_FAIL_NO_IDLE_ABIS	ACCUMULATION	INT8	H322M: Number of Intra-BSC Incoming Cell Handover Failures Due to No Abis Resources Available	B1275071426.C12 78078478	Sum	hucsvbh, huctvbh
HO_FAIL_NO_SPEECH_VER	ACCUMULATION	INT8	H322H:Failed Incoming Internal Inter-Cell Handovers (Requested Speech Version Unavailable)	B1275071426.C12 78078481	Sum	hucsvbh, huctvbh
HO_FAIL_RECONN_SUCCESSES	ACCUMULATION	INT8	H322D:Failed Incoming Internal Inter-Cell Handovers (Reconnection	B1275071426.C12 78078448	Sum	hucsvbh, huctvbh

			to Old Channels)			
HO_FAIL_SD_1800_1800	ACCUMULATION	INT8	H3220X:Failed Incoming Internal Inter-Cell Handovers (SDCCH) (1800/1900-1800/1900)	B1275071426.C1278078438	Sum	hucsvbh, huctvbh
HO_FAIL_SD_1800_900	ACCUMULATION	INT8	H3220Z:Failed Incoming Internal Inter-Cell Handovers (SDCCH) (1800/1900-900/850)	B1275071426.C1278078440	Sum	hucsvbh, huctvbh
HO_FAIL_SD_900_1800	ACCUMULATION	INT8	H3220Y:Failed Incoming Internal Inter-Cell Handovers (SDCCH) (900/850-1800/1900)	B1275071426.C1278078439	Sum	hucsvbh, huctvbh
HO_FAIL_SD_900_900	ACCUMULATION	INT8	H3220W:Failed Incoming Internal Inter-Cell Handovers (SDCCH) (900/850-900/850)	B1275071426.C1278078437	Sum	hucsvbh, huctvbh
HO_FAIL_TCH_1800_1800	ACCUMULATION	INT8	H3229X:Failed Incoming Internal Inter-Cell Handovers (TCH) (1800/1900-1800/1900)	B1275071426.C1278078442	Sum	hucsvbh, huctvbh
HO_FAIL_TCH	ACCUMULATION	INT8	H3229Z:Failed	B1275071426.C12	Sum	hucsvbh,

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_1800_900	TION		Incoming Internal Inter-Cell Handovers (TCH) (1800/1900-900/850)	78078444		huctvbh
HO_FAIL_TCH_900_1800	ACCUMULATION	INT8	H3229Y:Failed Incoming Internal Inter-Cell Handovers (TCH) (900/850-1800/1900)	B1275071426.C12 78078443	Sum	hucsvbh, huctvbh
HO_FAIL_TCH_900_900	ACCUMULATION	INT8	H3229W:Failed Incoming Internal Inter-Cell Handovers (TCH) (900/850-900/850)	B1275071426.C12 78078441	Sum	hucsvbh, huctvbh
INTRABSC_HO_PT_CHANGE_FAIL_A_IP	ACCUMULATION	INT8	H329B:Intra-BSC Incoming Cell Handover PT Change Failure Times (A_IP)	B1275071426.C12 78078488	Sum	hucsvbh, huctvbh

### 7.9.65 Cell.Huawei.GSM.Incom\_int\_intercell\_HO\_overview

Incoming internal intercell Handover overview

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
DOUB_FH_HO_SUCC_RATE_1800_900	INTENSITY	FLOAT	RH303G: Dual-Band Handover Success Ratio per cell(1800/1900-900/850)	B1275071426.C12 78078486	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
DOUB_FH_HO	INTENSITY	FLOAT	RH303F: Dual-	B1275071426.C12	Average	Average,

<u>SUCC_RATE_900_1800</u>		T	Band Handover Success Ratio per cell(900/850-1800/1900)	78078485		hucsvbh, huctvbh, Maximum, Minimum, Sum
HO_DETECT	ACCUMULATION	INT8	CH324:Incoming Internal Inter-Cell Handover Detection Messages Received by BSC	B1275071426.C1278078462	Sum	hucsvbh, huctvbh
HO_FAIL_TIMEOUT	ACCUMULATION	INT8	CH322C:Failed Incoming Internal Inter-Cell Handovers (Timer Expired)	B1275071426.C1278078464	Sum	hucsvbh, huctvbh
HO_FAIL	ACCUMULATION	INT8	CH322:Failed Incoming Internal Inter-Cell Handovers	B1275071426.C1278078461	Sum	hucsvbh, huctvbh
HO_REQ_ACK	ACCUMULATION	INT8	CH321:Incoming Internal Inter-Cell Handover Responses	B1275071426.C1278078463	Sum	hucsvbh, huctvbh
HO_REQ	ACCUMULATION	INT8	CH320:Incoming Internal Inter-Cell Handover Requests	B1275071426.C1278078458	Sum	hucsvbh, huctvbh
HO_SUCC_BSC_LOOP	ACCUMULATION	INT8	CH320a:Number of Intra-BSC Incoming Cell Handover	B1275071426.C1278078474	Sum	hucsvbh, huctvbh

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			Successes During BSC Loopback			
HO_SUCC_BTS_LOOP	ACCUMULATION	INT8	CH320b: Number of Intra-BSC Incoming Cell Handover Successes During BTS Loopback	B1275071426.C1278078476	Sum	hucsvbh, huctvbh
HO_SUCC_RATE_BSC_LOOP	INTENSITY	FLOAT	TH320a: Success Rate of Intra-BSC Incoming Cell Handover During BSC Loopback	B1275071426.C1278078475	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
HO_SUCC_RATE_BTS_LOOP	INTENSITY	FLOAT	TC320b: Success Rate of Intra-BSC Incoming Cell Handover During BTS Loopback	B1275071426.C1278078477	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
HO_SUCC_RATE	INTENSITY	FLOAT	RH303: Success Rate of Handover	B1275071426.C1278078483	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
HO_SUCC	ACCUMULATION	INT8	CH323: Successful Incoming Internal Inter-Cell Handovers	B1275071426.C1278078459	Sum	hucsvbh, huctvbh
INC_INT_HO_SUCC_RATE	INTENSITY	FLOAT	TH323: Success Rate of Incoming Internal Inter-Cell Handover	B1275071426.C1278078460	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum

INC_INT_INTE R_HO_REQS_T A	ACCUMULA TION	INTEG ER	CH322D:Inco ming Internal Inter-Cell Handover Requests(Timi ng Advance)	B1275071426.C12 78078465	Sum	hucsvbh, huctvbh
INTERBSC_IN _HO_FAIL_180 0_900	ACCUMULA TION	INT8	RH3034F:Faile d Incoming External Inter- Cell Handovers (1800/1900-90 0/850)	B1275071426.C12 78078495	Sum	hucsvbh, huctvbh
INTERBSC_IN _HO_FAIL_900 _1800	ACCUMULA TION	INT8	RH3033F:Faile d Incoming External Inter- Cell Handovers (900/850-1800/ 1900)	B1275071426.C12 78078494	Sum	hucsvbh, huctvbh
INTERBSC_IN _HO_REQ_180 0_900	ACCUMULA TION	INT8	RH3034G:Inco ming External Inter-Cell Handover Requests (1800/1900-90 0/850)	B1275071426.C12 78078501	Sum	hucsvbh, huctvbh
INTERBSC_IN _HO_REQ_900 _1800	ACCUMULA TION	INT8	RH3033G:Inco ming External Inter-Cell Handover Requests (900/850-1800/ 1900)	B1275071426.C12 78078500	Sum	hucsvbh, huctvbh
INTERBSC_OU T_HO_FAIL_18 00_900	ACCUMULA TION	INT8	RH3036F:Faile d Outgoing External Inter- Cell Handovers (1800/1900-90 0/850)	B1275071426.C12 78078497	Sum	hucsvbh, huctvbh

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INTERBSC_OUT_HO_FAIL_900_1800	ACCUMULATION	INT8	RH3035F:Failed Outgoing External Inter-Cell Handovers (900/850-1800/1900)	B1275071426.C12 78078496	Sum	hucsvbh, huctvbh
INTERBSC_OUT_HO_REQ_1800_900	ACCUMULATION	INT8	RH3036G:Outgoing External Inter-Cell Handover Requests (1800/1900-900/850)	B1275071426.C12 78078503	Sum	hucsvbh, huctvbh
INTERBSC_OUT_HO_REQ_900_1800	ACCUMULATION	INT8	RH3035G:Outgoing External Inter-Cell Handover Requests (900/850-1800/1900)	B1275071426.C12 78078502	Sum	hucsvbh, huctvbh
INTRABSC_INTO_HO_FAIL_1800_900	ACCUMULATION	INT8	RH3032F:Failed Incoming Internal Inter-Cell Handovers (1800/1900-900/850)	B1275071426.C12 78078493	Sum	hucsvbh, huctvbh
INTRABSC_INTO_HO_FAIL_900_1800	ACCUMULATION	INT8	RH3031F:Failed Incoming Internal Inter-Cell Handovers (900/850-1800/1900)	B1275071426.C12 78078492	Sum	hucsvbh, huctvbh
INTRABSC_INTO_HO_REQ_1800_900	ACCUMULATION	INT8	RH3032G:Incoming Internal Inter-Cell Handover Requests (1800/1900-900/850)	B1275071426.C12 78078499	Sum	hucsvbh, huctvbh
INTRABSC_INTO_HO_REQ_900_1800	ACCUMULATION	INT8	RH3031G:Incoming Internal Inter-Cell	B1275071426.C12 78078498	Sum	hucsvbh, huctvbh

			Handover Requests (900/850-1800/1900)			
RD_HO_SUCC_RATE	INTENSITY	FLOAT	RH303A:Success Rate of Radio Handover	B1275071426.C1278078484	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
SUCC_HO_OVERLAID_TO_OVERLAID	ACCUMULATION	INT8	H323II: Number of Successful Incoming Internal Inter-Cell Handovers (Overlaid to Overlaid)	B1275071426.C1278078519	Sum	hucsvbh, huctvbh
SUCC_HO_OVERLAID_TO_UNDERLAID	ACCUMULATION	INT8	H323IO: Number of Successful Incoming Internal Inter-Cell Handovers (Overlaid to Underlaid)	B1275071426.C1278078518	Sum	hucsvbh, huctvbh
SUCC_HO_UNDERLAID_TO_OVERLAID	ACCUMULATION	INT8	H323OI: Number of Successful Incoming Internal Inter-Cell Handovers (Underlaid to Overlaid)	B1275071426.C1278078517	Sum	hucsvbh, huctvbh
SUCC_HO_UNDERLAID_TO_UNDERLAID	ACCUMULATION	INT8	H323OO: Number of Successful Incoming	B1275071426.C1278078516	Sum	hucsvbh, huctvbh

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			Internal Inter-Cell Handovers (Underlaid to Underlaid)			
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### 7.9.66 Cell.Huawei.GSM.Incom\_int\_intercell\_HO\_req\_resp

Incoming internal intercell handover request and response

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CLEAR_CMD_AFTER_HO_CMD	ACCUMULATION	INT8	H325B:Incoming Internal Inter-Cell Handover Clear Cmd Times (After Handover Response)	B1275071426.C1278078480	Sum	hucsvbh, huctvbh
CLEAR_CMD_BEFORE_HO_CMD	ACCUMULATION	INT8	H325A:Incoming Internal Inter-Cell Handover Clear Cmd Times (Before Handover Response)	B1275071426.C1278078479	Sum	hucsvbh, huctvbh
HO_CMD_BSC_LOOP	ACCUMULATION	INT8	H321a:Number of Intra-BSC Incoming Cell Handover Commands During BSC Loopback	B1275071426.C1278078468	Sum	hucsvbh, huctvbh
HO_CMD_BTS_LOOP	ACCUMULATION	INT8	H321b:Number of Intra-BSC Incoming Cell Handover Commands During BTS Loopback	B1275071426.C1278078469	Sum	hucsvbh, huctvbh

HO_CMD_OVERLAI D_TO_OVERLAI D	ACCUMULA TION	INT8	H321II:Num ber of Incoming Internal Inter- Cell Handover Commands (Overlaid to Overlaid)	B1275071426.C1 278078511	Sum	hucsvbh, huctvbh
HO_CMD_OVERLAI D_TO_UNDE RLAI D	ACCUMULA TION	INT8	H321IO:Num ber of Incoming Internal Inter- Cell Handover Commands (Overlaid to Underlaid)	B1275071426.C1 278078510	Sum	hucsvbh, huctvbh
HO_CMD_SD_1 800_1800	ACCUMULA TION	INT8	H3210X:Inco ming Internal Inter-Cell Handover Responses (SDCCH) (1800/1900-18 00/1900)	B1275071426.C1 278078426	Sum	hucsvbh, huctvbh
HO_CMD_SD_1 800_900	ACCUMULA TION	INT8	H3210Z:Inco ming Internal Inter-Cell Handover Responses (SDCCH) (1800/1900-90 0/850)	B1275071426.C1 278078428	Sum	hucsvbh, huctvbh
HO_CMD_SD_9 00_1800	ACCUMULA TION	INT8	H3210Y:Inco ming Internal Inter-Cell Handover Responses (SDCCH) (900/850-1800 /1900)	B1275071426.C1 278078427	Sum	hucsvbh, huctvbh

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HO_CMD_SD_900_900	ACCUMULATION	INT8	H3210W:Incoming Internal Inter-Cell Handover Responses (SDCCH) (900/850-900/850)	B1275071426.C1 278078425	Sum	hucsvbh, huctvbh
HO_CMD_TCHF_1800_1800	ACCUMULATION	INT8	H3217X:Incoming Internal Inter-Cell Handover Responses (TCHF) (1800/1900-1800/1900)	B1275071426.C1 278078430	Sum	hucsvbh, huctvbh
HO_CMD_TCHF_1800_900	ACCUMULATION	INT8	H3217Z:Incoming Internal Inter-Cell Handover Responses (TCHF) (1800/1900-900/850)	B1275071426.C1 278078432	Sum	hucsvbh, huctvbh
HO_CMD_TCHF_900_1800	ACCUMULATION	INT8	H3217Y:Incoming Internal Inter-Cell Handover Responses (TCHF) (900/850-1800/1900)	B1275071426.C1 278078431	Sum	hucsvbh, huctvbh
HO_CMD_TCHF_900_900	ACCUMULATION	INT8	H3217W:Incoming Internal Inter-Cell Handover Responses (TCHF) (900/850-900/850)	B1275071426.C1 278078429	Sum	hucsvbh, huctvbh
HO_CMD_TCHH_1800_1800	ACCUMULATION	INT8	H3218X:Incoming Internal Inter-Cell	B1275071426.C1 278078434	Sum	hucsvbh, huctvbh

			Handover Responses (TCHH) (1800/1900-1800/1900)			
HO_CMD_TCHH_1800_900	ACCUMULATION	INT8	H3218Z:Incoming Internal Inter-Cell Handover Responses (TCHH) (1800/1900-900/850)	B1275071426.C1 278078436	Sum	hucsvbh, huctvbh
HO_CMD_TCHH_900_1800	ACCUMULATION	INT8	H3218Y:Incoming Internal Inter-Cell Handover Responses (TCHH) (900/850-1800/1900)	B1275071426.C1 278078435	Sum	hucsvbh, huctvbh
HO_CMD_TCHH_900_900	ACCUMULATION	INT8	H3218W:Incoming Internal Inter-Cell Handover Responses (TCHH) (900/850-900/850)	B1275071426.C1 278078433	Sum	hucsvbh, huctvbh
HO_CMD_UNDERLAID_TO_OVERLAID	ACCUMULATION	INT8	H321OI:Number of Incoming Internal Inter-Cell Handover Commands (Underlaid to Overlaid)	B1275071426.C1 278078509	Sum	hucsvbh, huctvbh
HO_CMD_UND	ACCUMULATION	INT8	H321OO:Num	B1275071426.C1	Sum	hucsvbh,

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ERLAIID_TO_UN DERLAIID	TION		ber of Incoming Internal Inter- Cell Handover Commands (Underlaid to Underlaid)	278078508		huctvbh
HO_DETECT_B SC_LOOP	ACCUMULA TION	INT8	H32aa:Numbe r of Intra-BSC Incoming Cell Handover Detections During BSC Loopback	B1275071426.C1 278078472	Sum	hucsvbh, huctvbh
HO_DETECT_B TS_LOOP	ACCUMULA TION	INT8	H32ab:Numbe r of Intra-BSC Incoming Cell Handover Detections During BTS Loopback	B1275071426.C1 278078473	Sum	hucsvbh, huctvbh
HO_DETECT_S D	ACCUMULA TION	INT8	H3240:Incomi ng Internal Inter-Cell Handover Detection Messages Received by BSC (SDCCH)	B1275071426.C1 278078455	Sum	hucsvbh, huctvbh
HO_DETECT_T CHF	ACCUMULA TION	INT8	H3247:Incomi ng Internal Inter-Cell Handover Detection Messages Received by BSC (TCHF)	B1275071426.C1 278078456	Sum	hucsvbh, huctvbh
HO_DETECT_T CHH	ACCUMULA TION	INT8	H3248:Incomi ng Internal Inter-Cell Handover Detection	B1275071426.C1 278078457	Sum	hucsvbh, huctvbh

			Messages Received by BSC (TCHH)			
HO_REQ_BSC_LOOP	ACCUMULATION	INT8	H320a: Number of Intra-BSC Incoming Cell Handover Requests During BSC Loopback	B1275071426.C1 278078466	Sum	hucsvbh, huctvbh
HO_REQ_BTS_LOOP	ACCUMULATION	INT8	H320b: Number of Intra-BSC Incoming Cell Handover Requests During BTS Loopback	B1275071426.C1 278078467	Sum	hucsvbh, huctvbh
HO_REQ_SD_1800_1800	ACCUMULATION	INT8	H3200X: Incoming Internal Inter-Cell Handover Requests (SDCCH) (1800/1900-1800/1900)	B1275071426.C1 278078418	Sum	hucsvbh, huctvbh
HO_REQ_SD_1800_900	ACCUMULATION	INT8	H3200Z: Incoming Internal Inter-Cell Handover Requests (SDCCH) (1800/1900-900/850)	B1275071426.C1 278078420	Sum	hucsvbh, huctvbh
HO_REQ_SD_900_1800	ACCUMULATION	INT8	H3200Y: Incoming Internal Inter-Cell Handover Requests	B1275071426.C1 278078419	Sum	hucsvbh, huctvbh

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			(SDCCH) (900/850-1800 /1900)			
HO_REQ_SD_900_900	ACCUMULATION	INT8	H3200W:Incoming Internal Inter-Cell Handover Requests (SDCCH) (900/850-900/850)	B1275071426.C1 278078417	Sum	hucsvbh, huctvbh
HO_REQ_TCH_1800_1800	ACCUMULATION	INT8	H3209X:Incoming Internal Inter-Cell Handover Requests (TCH) (1800/1900-1800/1900)	B1275071426.C1 278078422	Sum	hucsvbh, huctvbh
HO_REQ_TCH_1800_900	ACCUMULATION	INT8	H3209Z:Incoming Internal Inter-Cell Handover Requests (TCH) (1800/1900-900/850)	B1275071426.C1 278078424	Sum	hucsvbh, huctvbh
HO_REQ_TCH_900_1800	ACCUMULATION	INT8	H3209Y:Incoming Internal Inter-Cell Handover Requests (TCH) (900/850-1800/1900)	B1275071426.C1 278078423	Sum	hucsvbh, huctvbh
HO_REQ_TCH_900_900	ACCUMULATION	INT8	H3209W:Incoming Internal Inter-Cell Handover Requests (TCH) (900/850-900/850)	B1275071426.C1 278078421	Sum	hucsvbh, huctvbh

HO_RQ_OVERL AID_TO_OVERL AID	ACCUMULA TION	INT8	H320II:Num ber of Incoming Internal Inter- Cell Handover Requests (Overlaid to Overlaid)	B1275071426.C1 278078507	Sum	hucsvbh, huctvbh
HO_RQ_OVERL AID_TO_UNDE RLAID	ACCUMULA TION	INT8	H320IO:Num ber of Incoming Internal Inter- Cell Handover Requests (Overlaid to Underlaid)	B1275071426.C1 278078506	Sum	hucsvbh, huctvbh
HO_RQ_UNDER LAID_TO_OVER LAID	ACCUMULA TION	INT8	H320OI:Num ber of Incoming Internal Inter- Cell Handover Requests (Underlaid to Overlaid)	B1275071426.C1 278078505	Sum	hucsvbh, huctvbh
HO_RQ_UNDER LAID_TO_UND ERLAID	ACCUMULA TION	INT8	H320OO:Num ber of Incoming Internal Inter- Cell Handover Requests (Underlaid to Underlaid)	B1275071426.C1 278078504	Sum	hucsvbh, huctvbh
INBSC_HO_DET ECT_SPEECH_V ER_3_TCHF	ACCUMULA TION	INTEG ER	H3281A:BSC Incoming Cell Handover Detection Times (AMR) (TCHF)	B1275071426.C1 278078490	Sum	hucsvbh, huctvbh
INBSC_HO_DET	ACCUMULA	INTEG	H3282B:BSC	B1275071426.C1	Sum	hucsvbh,

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ECT_SPEECH_V ER_3_TCHH	TION	ER	Incoming Cell Handover Detection Times (AMR) (TCHH)	278078491		huctvbh
Inc_Internal_Inter CellHReqTCH	ACCUMULA TION	INTEG ER	CH3209A:Nu mber of Incoming Internal Inter- Cell Handover Requests (TCH)	B1275071426.C1 282448074	Sum	
Inc_Internal_Inter CellHResTCH	ACCUMULA TION	INTEG ER	CH3219A:Nu mber of Incoming Internal Inter- Cell Handover Responses(TC H)	B1275071426.C1 282448075	Sum	
INTRABSC_HO_ PT_CHANGE_A _IP	ACCUMULA TION	INT8	H329A:Intra- BSC Incoming Cell Handover PT Change Times (A_IP)	B1275071426.C1 278078487	Sum	hucsvbh, huctvbh
INTRABSC_HO_ PT_CHANGE_S UCC_A_IP	ACCUMULA TION	INT8	H329C:Intra- BSC Incoming Cell Handover PT Change Successful Times (A_IP)	B1275071426.C1 278078489	Sum	hucsvbh, huctvbh

### 7.9.67 Cell.Huawei.GSM.Incom\_interrat\_HO\_fails\_TDD

Incoming interRAT handover failures for TDD

KPI	Type	Data Type	Description	Derivation	Default Aggregat or	Other Aggrega tors
HO_FAIL_APP PLY_TRSL_FAI L	ACCUMULA TION	INT8	H362B1:Failed Incoming Inter- RAT Inter-Cell Handovers	B1275071439.C127 8091430	Sum	

			(Terrestrial Resource Request Failed) (TDD)			
HO_FAIL_CIC_ALLOC	ACCUMULATION	INT8	H362F1:Failed Incoming Inter-RAT Inter-Cell Handovers (CIC Allocated) (TDD)	B1275071439.C1278091429	Sum	
HO_FAIL_COING_SD	ACCUMULATION	INT8	H3620A1:Failed Incoming Inter-RAT Inter-Cell Handovers (No Channel Available) (SDCCH) (TDD)	B1275071439.C1278091426	Sum	
HO_FAIL_COING_TCH	ACCUMULATION	INT8	H3629A1:Failed Incoming Inter-RAT Inter-Cell Handovers (No Channel Available) (TCH) (TDD)	B1275071439.C1278091427	Sum	
HO_FAIL_EXP_SD	ACCUMULATION	INT8	H3620C1:Failed Incoming Inter-RAT Inter-Cell Handovers (Timer Expired) (SDCCH) (TDD)	B1275071439.C1278091432	Sum	
HO_FAIL_EXP_TCH_SIG	ACCUMULATION	INT8	H3629Cb1:Failed Incoming Inter-RAT	B1275071439.C1278091433	Sum	

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			Inter-Cell Handovers (Timer Expired) (TCH) (Signaling Channel) (TDD)			
HO_FAIL_EXP_TCH_TRAF_CH	ACCUMULATION	INT8	H3629Ca1:Failed Incoming Inter-RAT Inter-Cell Handovers (Timer Expired) (TCH) (Traffic Channel) (TDD)	B1275071439.C1278091434	Sum	
HO_FAIL_EXP	ACCUMULATION	INT8	H362C1:Failed Incoming Inter-RAT Inter-Cell Handovers (Timer Expired) (TDD)	B1275071439.C1278091440	Sum	
HO_FAIL_INVALID_CONTENTS	ACCUMULATION	INT8	H362J1:Failed Incoming Inter-RAT Inter-Cell Handovers (Invalid Message) (TDD)	B1275071439.C1278091425	Sum	
HO_FAIL_MSC_CLR_CMD	ACCUMULATION	INT8	H362H1:Failed Incoming Inter-RAT Inter-Cell Handovers (Clear Commands Sent By MSC) (TDD)	B1275071439.C1278091431	Sum	
HO_FAIL_NO_CIC	ACCUMULATION	INT8	H362E1:Failed Incoming Inter-RAT Inter-Cell Handovers (CIC Unavailable) (TDD)	B1275071439.C1278091428	Sum	

HO_FAIL_SD	ACCUMULATION	INT8	H36201:Failed Incoming Inter-RAT Inter-Cell Handovers (SDCCH) (TDD)	B1275071439.C127 8091422	Sum	
HO_FAIL_SP_VER_UNAV	ACCUMULATION	INT8	H362L1:Failed Incoming Inter-RAT Inter-Cell Handovers (Requested Speech Version Unavailable) (TDD)	B1275071439.C127 8091441	Sum	
HO_FAIL_TCHF	ACCUMULATION	INT8	H36271:Failed Incoming Inter-RAT Inter-Cell Handovers (TCHF) (TDD)	B1275071439.C127 8091423	Sum	
HO_FAIL_TCHH	ACCUMULATION	INT8	H36281:Failed Incoming Inter-RAT Inter-Cell Handovers (TCHH) (TDD)	B1275071439.C127 8091424	Sum	
HO_FAIL	ACCUMULATION	INT8	H3621:Failed Incoming Inter-RAT Inter-Cell Handovers (TDD)	B1275071439.C127 8091439	Sum	

### 7.9.68 Cell.Huawei.GSM.Incom\_interrat\_HO\_failures

Incoming interRAT handover failures

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
HO_FAIL_APP	ACCUMULATION	INT8	H362B:Failed	B1275071430.C127	Sum	hucsvbh,

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LY_TRSL_FAIL	TION		Incoming Inter-RAT Inter-Cell Handovers (Terrestrial Resource Request Failed)	8082430		huctvbh
HO_FAIL_CIC_ALLOC	ACCUMULATION	INT8	H362F:Failed Incoming Inter-RAT Inter-Cell Handovers (CIC Allocated)	B1275071430.C127 8082429	Sum	hucsvbh, huctvbh
HO_FAIL_CONG_SD	ACCUMULATION	INT8	H3620A:Failed Incoming Inter-RAT Inter-Cell Handovers (No Channel Available) (SDCCH)	B1275071430.C127 8082426	Sum	hucsvbh, huctvbh
HO_FAIL_CONG_TCH	ACCUMULATION	INT8	H3629A:Failed Incoming Inter-RAT Inter-Cell Handovers (No Channel Available) (TCH)	B1275071430.C127 8082427	Sum	hucsvbh, huctvbh
HO_FAIL_EXP_SD	ACCUMULATION	INT8	H3620C:Failed Incoming Inter-RAT Inter-Cell Handovers (Timer Expired) (SDCCH)	B1275071430.C127 8082432	Sum	hucsvbh, huctvbh
HO_FAIL_EXP_TCH_SIG	ACCUMULATION	INT8	H3629Cb:Failed Incoming Inter-RAT Inter-Cell Handovers (Timer Expired) (TCH) (Signaling Channel)	B1275071430.C127 8082433	Sum	hucsvbh, huctvbh
HO_FAIL_EXP_TCH_TRAF_	ACCUMULATION	INT8	H3629Ca:Failed Incoming	B1275071430.C127 8082434	Sum	hucsvbh, huctvbh

CH			Inter-RAT Inter-Cell Handovers (Timer Expired) (TCH) (Traffic Channel)			
HO_FAIL_EXP	ACCUMULATION	INT8	H362C:Failed Incoming Inter- RAT Inter-Cell Handovers (Timer Expired)	B1275071430.C127 8082440	Sum	hucsvbh, huctvbh
HO_FAIL_INVALID_CONTENTS	ACCUMULATION	INT8	H362J:Failed Incoming Inter- RAT Inter-Cell Handovers (Invalid Message)	B1275071430.C127 8082425	Sum	hucsvbh, huctvbh
HO_FAIL_MSC_CLR_CMD	ACCUMULATION	INT8	H362H:Failed Incoming Inter- RAT Inter-Cell Handovers (Clear Commands Sent By MSC)	B1275071430.C127 8082431	Sum	hucsvbh, huctvbh
HO_FAIL_NO_CIC	ACCUMULATION	INT8	H362E:Failed Incoming Inter- RAT Inter-Cell Handovers (CIC Unavailable)	B1275071430.C127 8082428	Sum	hucsvbh, huctvbh
HO_FAIL_NO_SPEECH_VER	ACCUMULATION	INT8	H362L:Failed Incoming Inter- RAT Inter-Cell Handovers (Requested Speech Version Unavailable)	B1275071430.C127 8082441	Sum	hucsvbh, huctvbh
HO_FAIL_SD	ACCUMULATION	INT8	H3620:Failed Incoming Inter-	B1275071430.C127 8082422	Sum	hucsvbh, huctvbh

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			RAT Inter-Cell Handovers (SDCCH)			
HO_FAIL_TCHF	ACCUMULATION	INT8	H3627:Failed Incoming Inter-RAT Inter-Cell Handovers (TCHF)	B1275071430.C1278082423	Sum	hucsvbh, huctvbh
HO_FAIL_TCHH	ACCUMULATION	INT8	H3628:Failed Incoming Inter-RAT Inter-Cell Handovers (TCHH)	B1275071430.C1278082424	Sum	hucsvbh, huctvbh
HO_FAIL	ACCUMULATION	INT8	H362:Failed Incoming Inter-RAT Inter-Cell Handovers	B1275071430.C1278082439	Sum	hucsvbh, huctvbh

### 7.9.69 Cell.Huawei.GSM.Incom\_interrat\_HO\_overview\_TDD

Incoming interRAT handover overview for TDD

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
HO_REQ_ACK	ACCUMULATION	INT8	CH3611:Incoming Inter-RAT Inter-Cell Handover Responses (TDD)	B1275071439.C1278091438	Sum	
HO_REQ	ACCUMULATION	INT8	CH3601:Incoming Inter-RAT Inter-Cell Handover Requests (TDD)	B1275071439.C1278091435	Sum	
HO_SUCC_RATE	INTENSITY	FLOAT	TH3631:Success Rate of Incoming Inter-RAT Inter-Cell Handover (TDD)	B1275071439.C1278091437	Average	Average, Maximum, Minimum, Sum

HO_SUCC	ACCUMULATION	INT8	CH3631:Successful Incoming Inter-RAT Inter-Cell Handovers (TDD)	B1275071439.C1278091436	Sum	
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### 7.9.70 Cell.Huawei.GSM.Incom\_interrat\_HO\_overview

Incoming interRAT handover overview

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
HO_REQ_ACK	ACCUMULATION	INT8	CH361:Incoming Inter-RAT Inter-Cell Handover Responses	B1275071430.C1278082438	Sum	hucsvbh, huctvbh
HO_REQ	ACCUMULATION	INT8	CH360:Incoming Inter-RAT Inter-Cell Handover Requests	B1275071430.C1278082435	Sum	hucsvbh, huctvbh
HO_SUCC_RATE	INTENSITY	FLOAT	TH363:Success Rate of Incoming Inter-RAT Inter-Cell Handover	B1275071430.C1278082437	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
HO_SUCC	ACCUMULATION	INT8	CH363:Successful Incoming Inter-RAT Inter-Cell Handovers	B1275071430.C1278082436	Sum	hucsvbh, huctvbh

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### 7.9.71 Cell.Huawei.GSM.Incom\_interrat\_HO\_req\_resp\_TDD

Incoming interRAT handover request , responses for TDD

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
HO_REQ_ACK_SD	ACCUMULATION	INT8	H36101:Incoming Inter-RAT Inter-Cell Handover Responses (SDCCH) (TDD)	B1275071439.C1278091419	Sum	
HO_REQ_ACK_TCHF	ACCUMULATION	INT8	H36171:Incoming Inter-RAT Inter-Cell Handover Responses (TCHF) (TDD)	B1275071439.C1278091420	Sum	
HO_REQ_ACK_TCHH	ACCUMULATION	INT8	H36181:Incoming Inter-RAT Inter-Cell Handover Responses (TCHH) (TDD)	B1275071439.C1278091421	Sum	
HO_REQ_SD	ACCUMULATION	INT8	H36001:Incoming Inter-RAT Inter-Cell Handover Requests (SDCCH) (TDD)	B1275071439.C1278091417	Sum	
HO_REQ_TCH	ACCUMULATION	INT8	H36091:Incoming Inter-RAT Inter-Cell Handover Requests (TCH) (TDD)	B1275071439.C1278091418	Sum	

### 7.9.72 Cell.Huawei.GSM.Incom\_interrat\_HO\_req\_resp

Incoming interRAT handover request response

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
HO_REQ_ACK_SD	ACCUMULATION	INT8	H3610:Incoming Inter-RAT Inter-Cell Handover Responses (SDCCH)	B1275071430.C1278082419	Sum	hucsvbh, huctvbh
HO_REQ_ACK_TCHF	ACCUMULATION	INT8	H3617:Incoming Inter-RAT Inter-Cell Handover Responses (TCHF)	B1275071430.C1278082420	Sum	hucsvbh, huctvbh
HO_REQ_ACK_TCHH	ACCUMULATION	INT8	H3618:Incoming Inter-RAT Inter-Cell Handover Responses (TCHH)	B1275071430.C1278082421	Sum	hucsvbh, huctvbh
HO_REQ_SD	ACCUMULATION	INT8	H3600:Incoming Inter-RAT Inter-Cell Handover Requests (SDCCH)	B1275071430.C1278082417	Sum	hucsvbh, huctvbh
HO_REQ_TCH	ACCUMULATION	INT8	H3609:Incoming Inter-RAT Inter-Cell Handover Requests (TCH)	B1275071430.C1278082418	Sum	hucsvbh, huctvbh

### 7.9.73 Cell.Huawei.GSM.Incoming\_inter\_BSC\_handovers

Measurement counters related to incoming VGCS inter-BSC handovers.

KPI	Type	Data	Description	Derivation	Default	Other
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		Type			Aggregator	Aggregators
ATT_IC_VGCS_TCH_HO	ACCUMULATION	INT8	A03491:Attempted Incoming Inter-BSC Inter-Cell VGCS TCH Handovers	B1275071529.C1278181417	Sum	huctvbh
IC_VGCS_TCH_HO	ACCUMULATION	INT8	A03493:Incoming Inter-BSC Inter-Cell VGCS TCH Handovers	B1275071529.C1278181419	Sum	huctvbh
SUCC_IC_VGCS_TCH_HO	ACCUMULATION	INT8	A03492:Successful Incoming Inter-BSC Inter-Cell VGCS TCH Handovers	B1275071529.C1278181418	Sum	huctvbh
SUCC_IC_VGCS_TCH_R_HO_RATE3494	INTENSITY	FLOAT	A03494:Successful Inter-BSC Incoming Cell VGCS TCH Radio Handover Rate	B1275071529.C1278181420	Average	huctvbh, Sum, Minimum, Maximum
SUCC_IC_VGCS_TCH_R_HO_RATE3495	INTENSITY	FLOAT	A03495:Successful Inter-BSC Incoming Cell VGCS TCH Radio Handover Rate	B1275071529.C1278181421	Average	huctvbh, Sum, Minimum, Maximum

### 7.9.74 Cell.Huawei.GSM.Inter\_cell\_handovers\_overview

Overview of measurement counters related to VGCS inter-cell handovers.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
RAT_FAILVGS_HO_CH_UNACC	INTENSITY	FLOAT	Ratio of Unsuccessful Internal Inter-	{Huawei.Inter_cell_handovers.UNSUCC_HO_CHNL_MODE_U	Average	huctvbh, Sum, Minimum

			Cell VGCS TCH Handovers (Channel Mode Unacceptable)	NACCEP}/ {Huawei.Inter_cell_handovers.TOT_FAIL_INT_IC_VGCH_TCH_HO}		m, Maximum
RAT_FAILVGC S_HO_NO_FRE Q	INTENSI TY	FLOA T	Ratio of Unsuccessful Internal Inter-Cell VGCS TCH Handovers (Frequency not Implemented)	{Huawei.Inter_cell_handovers.UNSUCC_HO_F_NOT_IMPLEMENT}/ {Huawei.Inter_cell_handovers.TOT_FAIL_INT_IC_VGCH_TCH_HO}	Average	huctvbh, Sum, Minimum, Maximum
RAT_FAILVGC S_HO_OTH	INTENSI TY	FLOA T	Ratio of Unsuccessful Internal Inter-Cell VGCS TCH Handovers (Other Causes)	{Huawei.Inter_cell_handovers.UNSUCC_HO_OTHERS}/ {Huawei.Inter_cell_handovers.TOT_FAIL_INT_IC_VGCH_TCH_HO}	Average	huctvbh, Sum, Minimum, Maximum
RAT_FAILVGC S_HO_TA_OO R	INTENSI TY	FLOA T	Ratio of Unsuccessful Internal Inter-Cell VGCS TCH Handovers (Timing Advance Out of Range)	{Huawei.Inter_cell_handovers.UNSUCC_HO_TA_OUT_OF_RANGE}/ {Huawei.Inter_cell_handovers.TOT_FAIL_INT_IC_VGCH_TCH_HO}	Average	huctvbh, Sum, Minimum, Maximum
RAT_FAILVGC S_HO_TIME_E X	INTENSI TY	FLOA T	Ratio of Unsuccessful Internal Inter-Cell VGCS TCH Handovers (Timer Expired)	{Huawei.Inter_cell_handovers.UNSUCC_HO_TIMER_EXPIRED}/ {Huawei.Inter_cell_handovers.TOT_FAIL_INT_IC_VGCH_TCH_HO}	Average	huctvbh, Sum, Minimum, Maximum

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### 7.9.75 Cell.Huawei.GSM.Inter\_cell\_handovers

Measurement counters related to VGCS inter-cell handovers.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ATT_IC_HO	ACCUMULATION	INT8	A03463:Attempted Incoming Internal Inter-Cell VGCS TCH Handovers	B1275071526.C1278178417	Sum	huctvbh
ATT_OG_INT_HO	ACCUMULATION	INT8	A03466:Attempted Outgoing Internal Inter-Cell VGCS TCH Handovers	B1275071526.C1278178420	Sum	huctvbh
IC_INT_HO	ACCUMULATION	INT8	A03464:Incoming Internal Inter-Cell VGCS TCH Handovers	B1275071526.C1278178418	Sum	huctvbh
OG_INT_HO	ACCUMULATION	INT8	A03467:Outgoing Internal Inter-Cell VGCS TCH Handovers	B1275071526.C1278178421	Sum	huctvbh
SUCC_IC_INT_HO	ACCUMULATION	INT8	A03465:Successful Incoming Internal Inter-Cell VGCS TCH Handovers	B1275071526.C1278178419	Sum	huctvbh
SUCC_INT_BSC_VGCS_TCH_R_HO_RATE	INTENSITY	FLOAT	A03477:Successful Internal BSC VGCS TCH Radio Handover Rate	B1275071526.C1278178431	Average	huctvbh, Sum, Minimum, Maximum
SUCC_INT_VGCS_TCH_HO	INTENSITY	FLOAT	A03476:Successful Internal	B1275071526.C1278178430	Average	huctvbh, Sum,

_RATE			Inter-Cell VGCS TCH Handover Rate			Minimu m, Maximu m
SUCC_OG_IN T_HO	ACCUMULA TION	INT8	A03468:Succe ssful Outgoing Internal Inter- Cell VGCS TCH Handovers	B1275071526.C127 8178422	Sum	huctvbh
TOT_FAIL_IN T_IC_VGCH_T CH_HO	ACCUMULA TION	INT8	Total Unsuccessful Internal Inter- Cell VGCS TCH Handovers	B1275071526.C127 8178423 + C1278178424 + C1278178425 + C1278178426 + C1278178427	Sum	huctvbh
UNSUCC_BSC _HO_SUCC_R EVERSE	ACCUMULA TION	INT8	A03474:Unsucc essful BSC Internal VGCS TCH Handovers with Successful Reversion	B1275071526.C127 8178428	Sum	huctvbh
UNSUCC_BSC _HO_UNSUCC _REVERSE	ACCUMULA TION	INT8	A03475:Unsucc essful BSC Internal VGCS TCH Handovers with Unsuccessful Reversion	B1275071526.C127 8178429	Sum	huctvbh
UNSUCC_HO_ CHNL_MODE_ UNACCEP	ACCUMULA TION	INT8	A03469:Unsucc essful Internal Inter-Cell VGCS TCH Handovers (Channel Mode Unacceptable)	B1275071526.C127 8178423	Sum	huctvbh
UNSUCC_HO_	ACCUMULA	INT8	A03471:Unsucc	B1275071526.C127	Sum	huctvbh

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F_NOT_IMPLEMENT	TION		essful Internal Inter-Cell VGCS TCH Handovers (Frequency not Implemented)	8178425		
UNSUCC_HO_OTHERS	ACCUMULATION	INT8	A03473:Unsuccessful Internal Inter-Cell VGCS TCH Handovers (Other Causes)	B1275071526.C127 8178427	Sum	huctvbh
UNSUCC_HO_TA_OUT_OF_RANGE	ACCUMULATION	INT8	A03470:Unsuccessful Internal Inter-Cell VGCS TCH Handovers (Timing Advance Out of Range)	B1275071526.C127 8178424	Sum	huctvbh
UNSUCC_HO_TIMER_EXPIRED	ACCUMULATION	INT8	A03472:Unsuccessful Internal Inter-Cell VGCS TCH Handovers (Timer Expired)	B1275071526.C127 8178426	Sum	huctvbh

### 7.9.76 Cell.Huawei.GSM.Intra\_cell\_handover\_overview

Overview of measurement counters related to VGCS intra-cell handovers.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
RAT_FAILVD_HO_CH_UNACCEPT	INTENSITY	FLOAT	Ratio of Unsuccessful Intra-Cell VGCS TCH to Dedicated TCH Handover (Channel Mode Unacceptable)	{Huawei.Intra_cell_handover.UNSUCC_HO_CHNL_MODE_UNACCEPT}/ {Huawei.Intra_cell_handover.TOT_FAIL_VGCS_DTCH_HO}	Average	Sum, Minimum, Maximum

RAT_FAILVD HO_HO_OTH	INTENSI TY	FLOA T	Ratio of Unsuccessful Intra-Cell VGCS TCH to Dedicated TCH Handover (Other Causes)	{Huawei.Intra_cell_ha ndover.UNSUCC_HO _OTHERS}/ {Huawei.Intra_cell_ha ndover.TOT_FAIL_V GCS_DTCH_HO}	Average	Sum, Minimu m, Maximu m
RAT_FAILVD HO_NO_FRE Q	INTENSI TY	FLOA T	Ratio of Unsuccessful Intra-Cell VGCS TCH to Dedicated TCH Handover (Frequency not Implemented)	{Huawei.Intra_cell_ha ndover.UNSUCC_HO _F_NOT_IMPLME NTED}/ {Huawei.Intra_cell_ha ndover.TOT_FAIL_V GCS_DTCH_HO}	Average	Sum, Minimu m, Maximu m
RAT_FAILVD HO_TA_OOR	INTENSI TY	FLOA T	Ratio of Unsuccessful Intra-Cell VGCS TCH to Dedicated TCH Handover (Timing Advance Out of Range)	{Huawei.Intra_cell_ha ndover.UNSUCC_HO _TA_OUT_OF_RAN GE}/ {Huawei.Intra_cell_ha ndover.TOT_FAIL_V GCS_DTCH_HO}	Average	Sum, Minimu m, Maximu m
RAT_FAILVD HO_TIME_E X	INTENSI TY	FLOA T	Ratio of Unsuccessful Intra-Cell VGCS TCH to Dedicated TCH Handover (Timer Expired)	{Huawei.Intra_cell_ha ndover.UNSUCC_HO _TIMER_EXPIRED}/ {Huawei.Intra_cell_ha ndover.TOT_FAIL_V GCS_DTCH_HO}	Average	Sum, Minimu m, Maximu m

### 7.9.77 Cell.Huawei.GSM.Intra\_cell\_handover

Measurement counters related to VGCS intra-cell handovers.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
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ATT_HO	ACCUMULATION	INT8	A03478:Attempted Intra-cell VGCS TCH to Dedicated TCH Handover	B1275071527.C1278179417	Sum	huctvbh
SUCC_HO_RATE	INTENSITY	FLOAT	A03485:Successful Intra-Cell VGCS TCH to Dedicated TCH Handover Rate	B1275071527.C1278179424	Average	huctvbh, Sum, Minimum, Maximum
SUCC_HO	ACCUMULATION	INT8	A03479:Successful Intra-Cell VGCS TCH to Dedicated TCH Handover	B1275071527.C1278179418	Sum	huctvbh
TOT_FAIL_VGCS_DTCH_HO	ACCUMULATION	INT8	Total Unsuccessful Intra-Cell VGCS TCH to Dedicated TCH Handover	B1275071527.C1278179419 + C1278179420 + C1278179421 + C1278179422 + C1278179423	Sum	huctvbh
UNSUCC_HO_CHNL_MODE_UNACCEP	ACCUMULATION	INT8	A03480:Unsuccessful Intra-Cell VGCS TCH to Dedicated TCH Handover (Channel Mode Unacceptable)	B1275071527.C1278179419	Sum	huctvbh
UNSUCC_HO_F_NOT_IMPLEMENTED	ACCUMULATION	INT8	A03482:Unsuccessful Intra-Cell VGCS TCH to Dedicated TCH Handover (Frequency not Implemented)	B1275071527.C1278179421	Sum	huctvbh
UNSUCC_HO_OTHERS	ACCUMULATION	INT8	A03484:Unsuccessful Intra-Cell VGCS TCH to	B1275071527.C1278179423	Sum	huctvbh

			Dedicated TCH Handover (Other Causes)			
UNSUCC_HO_TA_OUT_OF_RANGE	ACCUMULATION	INT8	A03481:Unsuccessful Intra-Cell VGCS TCH to Dedicated TCH Handover (Timing Advance Out of Range)	B1275071527.C1278179420	Sum	huctvbh
UNSUCC_HO_TIMER_EXPIRED	ACCUMULATION	INT8	A03483:Unsuccessful Intra-Cell VGCS TCH to Dedicated TCH Handover (Timer Expired)	B1275071527.C1278179422	Sum	huctvbh

**7.9.78 Cell.Huawei.GSM.Intracell\_handover\_failures**

Intracell handover failures

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
A_INTERF_FAIL	ACCUMULATION	INT8	H302G:Failed Internal Intra-Cell Handovers (A Interface Failure)	B1275071425.C1278077427	Sum	hucsvbh, huctvbh
AMR_TCHF_TCHH	ACCUMULATION	INT8	H3025A:Failed Internal Intra-Cell Handovers (AMR) (TCHF-TCHH)	B1275071425.C1278077476	Sum	hucsvbh, huctvbh

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AMR_TCHH_TCHF	ACCUMULATION	INT8	H3025B:Failed Internal Intra-Cell Handovers (AMR) (TCHH-TCHF)	B1275071425.C12 78077477	Sum	hucsvbh, huctvbh
APPLY_TRSL_FAIL	ACCUMULATION	INT8	H302B:Failed Internal Intra-Cell Handovers (Terrestrial Resource Request Failed)	B1275071425.C12 78077426	Sum	hucsvbh, huctvbh
BSC_LOOP	ACCUMULATION	INT8	H302a:Failed Internal Intra-Cell Handovers (BSC LOOP)	B1275071425.C12 78077514	Sum	hucsvbh, huctvbh
BTS_LOOP	ACCUMULATION	INT8	H302:Failed Internal Intra-Cell Handovers (BTS LOOP)	B1275071425.C12 78077515	Sum	hucsvbh, huctvbh
CONG_OLUL_CELL	ACCUMULATION	INT8	H3021A:Failed Internal Intra-Cell Handovers (Channel Unavailable) (Overlaid to Underlaid)	B1275071425.C12 78077455	Sum	hucsvbh, huctvbh
CONG_SDCC_H	ACCUMULATION	INT8	H3020A:Failed Internal Intra-Cell Handovers (Channel Unavailable) (SDCCH)	B1275071425.C12 78077424	Sum	hucsvbh, huctvbh
CONG_TCH	ACCUMULATION	INT8	H3029A:Failed Internal Intra-Cell Handovers (Channel Unavailable) (TCH)	B1275071425.C12 78077425	Sum	hucsvbh, huctvbh
CONG_ULOL_CELL	ACCUMULATION	INT8	H3022A:Failed Internal Intra-Cell Handovers	B1275071425.C12 78077454	Sum	hucsvbh, huctvbh

			(Channel Unavailable) (Underlaid to Overlaid)			
EXP_SDCCH	ACCUMULATION	INT8	H3020C:Failed Internal Intra-Cell Handovers (Timer Expired) (SDCCH)	B1275071425.C12 78077428	Sum	hucsvbh, huctvbh
EXP_TCHF_SIG	ACCUMULATION	INT8	H3027Cb:Failed Internal Intra-Cell Handovers (Timer Expired) (TCHF) (Signaling Channel)	B1275071425.C12 78077429	Sum	hucsvbh, huctvbh
EXP_TCHF_TRAF	ACCUMULATION	INT8	H3027Ca:Failed Internal Intra-Cell Handovers (Timer Expired) (TCHF) (Traffic Channel)	B1275071425.C12 78077431	Sum	hucsvbh, huctvbh
EXP_TCHH_SIG	ACCUMULATION	INT8	H3028Cb:Failed Internal Intra-Cell Handovers (Timer Expired) (TCHH) (Signaling Channel)	B1275071425.C12 78077430	Sum	hucsvbh, huctvbh
EXP_TCHH_TRAF	ACCUMULATION	INT8	H3028Ca:Failed Internal Intra-Cell Handovers (Timer Expired) (TCHH) (Traffic Channel)	B1275071425.C12 78077432	Sum	hucsvbh, huctvbh
FAIL_HO_NO AMR_TCHF_	ACCUMULATION	INT8	H3202A:Failed Internal Intra-	B1275071425.C12 78077536	Sum	hucsvbh, huctvbh

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TCHH			Cell Handovers (NONE AMR) (TCHF-TCHH)			
FAIL_HO_NO AMR_TCHH_ TCHF	ACCUMULA TION	INT8	H3202B:Failed Internal Intra- Cell Handovers (NONE AMR) (TCHH-TCHF)	B1275071425.C12 78077537	Sum	hucsvbh, huctvbh
FAIL_HO_WB AMR_NWB_ WB	ACCUMULA TION	INT8	H3026B:Failed Internal Intra- Cell Handovers (WBAMR) (NWB-WB)	B1275071425.C12 82411452	Sum	hucsvbh, huctvbh
FAIL_HO_WB AMR_WB_N WB	ACCUMULA TION	INT8	H3026A:Failed Internal Intra- Cell Handovers (WBAMR) (WB-NWB)	B1275071425.C12 82411451	Sum	hucsvbh, huctvbh
OTHERS_OL ULCELL	ACCUMULA TION	INT8	H3021M:Failed Internal Intra- Cell Handovers (Other Causes) (Overlaid to Underlaid)	B1275071425.C12 78077457	Sum	hucsvbh, huctvbh
OTHERS_UL OLCELL	ACCUMULA TION	INT8	H3022M:Failed Internal Intra- Cell Handovers (Other Causes) (Underlaid to Overlaid)	B1275071425.C12 78077456	Sum	hucsvbh, huctvbh
RECONN_SU CC_MS_RPT_ ABN_RLS_CH _UNAC	ACCUMULA TION	INT8	H302Db:Failed Internal Intra- Cell Handovers (Reconnection to Old Channels) (Abnormal Release, Channel Unacceptable)	B1275071425.C12 78077434	Sum	hucsvbh, huctvbh
RECONN_SU	ACCUMULA	INT8	H302Dd:Failed	B1275071425.C12	Sum	hucsvbh,

CC_MS_RPT_ABN_RLS_NO_ACT	TION		Internal Intra-Cell Handovers (Reconnection to Old Channels) (Abnormal Release, No Activity on the Radio Path)	78077436		huctvbh
RECONN_SU CC_MS_RPT_ABN_RLS_TM_EXP	ACCUMULATION	INT8	H302Dc:Failed Internal Intra-Cell Handovers (Reconnection to Old Channels) (Abnormal Release, Timer Expired)	B1275071425.C12 78077435	Sum	hucsvbh, huctvbh
RECONN_SU CC_MS_RPT_ABN_RLS_UNSPEC	ACCUMULATION	INT8	H302Da:Failed Internal Intra-Cell Handovers (Reconnection to Old Channels) (Abnormal Release, Unspecified)	B1275071425.C12 78077433	Sum	hucsvbh, huctvbh
RECONN_SU CC_MS_RPT_CALL_CLR	ACCUMULATION	INT8	H302Di:Failed Internal Intra-Cell Handovers (Reconnection to Old Channels) (Call Already Cleared)	B1275071425.C12 78077441	Sum	hucsvbh, huctvbh
RECONN_SU CC_MS_RPT_CDT_IE_ERR	ACCUMULATION	INT8	H302Dn:Failed Internal Intra-Cell Handovers (Reconnection	B1275071425.C12 78077446	Sum	hucsvbh, huctvbh

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			to Old Channels) (Conditional IE Error)			
RECONN_SU CC_MS_RPT_ FREQ_NOT_I MP	ACCUMULA TION	INT8	H302Dh:Failed Internal Intra- Cell Handovers (Reconnection to Old Channels) (Frequency Unavailable)	B1275071425.C12 78077440	Sum	hucsvbh, huctvbh
RECONN_SU CC_MS_RPT_ HO_IMPSBL_ TA	ACCUMULA TION	INT8	H302Df:Failed Internal Intra- Cell Handovers (Reconnection to Old Channels) (Handover Failed, Timing Advance out of Range)	B1275071425.C12 78077438	Sum	hucsvbh, huctvbh
RECONN_SU CC_MS_RPT_ INVLID_MAN _INFO	ACCUMULA TION	INT8	H302Dk:Failed Internal Intra- Cell Handovers (Reconnection to Old Channels) (Invalid Mandatory Information)	B1275071425.C12 78077443	Sum	hucsvbh, huctvbh
RECONN_SU CC_MS_RPT_ MSG_TYPE_N ONEXT	ACCUMULA TION	INT8	H302DI:Failed Internal Intra- Cell Handovers (Reconnection to Old Channels) (Message Type Non-existent or Not Implemented)	B1275071425.C12 78077444	Sum	hucsvbh, huctvbh
RECONN_SU CC_MS_RPT_ _	ACCUMULA TION	INT8	H302Dm:Failed Internal Intra-	B1275071425.C12 78077445	Sum	hucsvbh, huctvbh

MSG_TYPE_NOT_CM			Cell Handovers (Reconnection to Old Channels) (Message Type Not Compatible with Protocol State)			
RECONN_SUCC_MS_RPT_NO_ALLOC	ACCUMULATION	INT8	H302Do:Failed Internal Intra-Cell Handovers (Reconnection to Old Channels) (No Cell Allocation Available)	B1275071425.C1278077447	Sum	hucsvbh, huctvbh
RECONN_SUCC_MS_RPT_NO_CH_MODEL	ACCUMULATION	INT8	H302Dg:Failed Internal Intra-Cell Handovers (Reconnection to Old Channels) (Channel Mode Unavailable)	B1275071425.C1278077439	Sum	hucsvbh, huctvbh
RECONN_SUCC_MS_RPT_OTHER	ACCUMULATION	INT8	H302Dq:Failed Internal Intra-Cell Handovers (Reconnection to Old Channels) (Other Causes)	B1275071425.C1278077449	Sum	hucsvbh, huctvbh
RECONN_SUCC_MS_RPT_PREEMPT_RELEASES	ACCUMULATION	INT8	H302De:Failed Internal Intra-Cell Handovers (Reconnection to Old Channels) (Preemptive Release)	B1275071425.C1278077437	Sum	hucsvbh, huctvbh

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RECONN_SU CC_MS_RPT_ PTCL_ERR_U NSPEC	ACCUMULA TION	INT8	H302Dp:Failed Internal Intra- Cell Handovers (Reconnection to Old Channels) (Protocol Error Unspecified)	B1275071425.C12 78077448	Sum	hucsvbh, huctvbh
RECONN_SU CC_MS_RPT_ SMN_INCRCT _MSG	ACCUMULA TION	INT8	H302Dj:Failed Internal Intra- Cell Handovers (Reconnection to Old Channels) (Semantically Incorrect Message)	B1275071425.C12 78077442	Sum	hucsvbh, huctvbh
SD_TCH	ACCUMULA TION	INTEG ER	H3024B:Failed Internal Intra- Cell Handovers (Dynamic Conversion, SDCCH-TCH)	B1275071425.C12 78077469	Sum	hucsvbh, huctvbh
SDCCH	ACCUMULA TION	INT8	H3020:Failed Internal Intra- Cell Handovers (SDCCH)	B1275071425.C12 78077422	Sum	hucsvbh, huctvbh
TCH_SDCCH	ACCUMULA TION	INTEG ER	H3024A:Failed Internal Intra- Cell Handovers (Dynamic Conversion, TCH-SDCCH)	B1275071425.C12 78077468	Sum	hucsvbh, huctvbh
TCHF_TCHH	ACCUMULA TION	INTEG ER	H3023A:Failed Internal Intra- Cell Handovers (Dynamic Conversion, TCHF-TCHH)	B1275071425.C12 78077466	Sum	hucsvbh, huctvbh
TCHH_TCHF	ACCUMULA TION	INTEG ER	H3023B:Failed Internal Intra- Cell Handovers	B1275071425.C12 78077467	Sum	hucsvbh, huctvbh

			(Dynamic Conversion, TCHH-TCHF)			
TCH	ACCUMULATION	INT8	H3029:Failed Internal Intra-Cell Handovers (TCH)	B1275071425.C1278077423	Sum	hucsvbh, huctvbh

### 7.9.79 Cell.Huawei.GSM.Intracell\_handover\_overview

Intracell handover overview

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
HO_CMD	ACCUMULATION	INT8	CH301:Internal Intra-Cell Handover Commands	B1275071425.C1278077486	Sum	hucsvbh, huctvbh
HO_DETECT	ACCUMULATION	INT8	CH304:Internal Intra-Cell Handover Detection Messages Received by BSC	B1275071425.C1278077487	Sum	hucsvbh, huctvbh
HO_FAIL_CHACT_FAIL	ACCUMULATION	INT8	H302I:Failed Internal Intra-Cell Handovers (Channel Activation Failed)	B1275071425.C1278077524	Sum	hucsvbh, huctvbh
HO_FAIL_CONG	ACCUMULATION	INT8	CH302A:Failed Internal Intra-Cell Handovers (No Channel Available)	B1275071425.C1278077489	Sum	hucsvbh, huctvbh

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HO_FAIL_EX P	ACCUMULA TION	INT8	CH302C:Failed Internal Intra- Cell Handovers (Timer Expiry)	B1275071425.C12 78077490	Sum	hucsvbh, huctvbh
HO_FAIL_NO _IDLE_ABIS	ACCUMULA TION	INT8	H302E:Number of Intra-BSC Intra-Cell Handover Failures Due to No Abis Resources Available	B1275071425.C12 78077522	Sum	hucsvbh, huctvbh
HO_FAIL_NO _SPEECH_VE R	ACCUMULA TION	INT8	H302H:Failed Internal Intra- Cell Handovers (Requested Speech Version Unavailable)	B1275071425.C12 78077523	Sum	hucsvbh, huctvbh
HO_FAIL_OL ULCELL	ACCUMULA TION	INT8	CH3021:Failed Internal Intra- Cell Handovers (Overlaid to Underlaid)	B1275071425.C12 78077493	Sum	hucsvbh, huctvbh
HO_FAIL_RE CONN_SUCC	ACCUMULA TION	INT8	CH302D:Failed Internal Intra- Cell Handovers (Reconnection to Old Channels)	B1275071425.C12 78077491	Sum	hucsvbh, huctvbh
HO_FAIL_UL OLCELL	ACCUMULA TION	INT8	CH3022:Failed Internal Intra- Cell Handovers (Underlaid to Overlaid)	B1275071425.C12 78077492	Sum	hucsvbh, huctvbh
HO_FAIL	ACCUMULA TION	INT8	CH302:Failed Internal Intra- Cell Handovers	B1275071425.C12 78077488	Sum	hucsvbh, huctvbh
HO_NOT_INIT _NOAMR_TC HF_TCHH	ACCUMULA TION	INTEG ER	H3199A:Numb er of Internal Intra-Cell Handovers Not	B1275071425.C12 78077530	Sum	hucsvbh, huctvbh

			Initiated (Non-AMR) (TCHF-TCHH) .Obsolete in V900R011.			
HO_NOT_INIT_NOAMR_TCHH_TCHF	ACCUMULATION	INTEGER	H3199B:Internal Intra-Cell Handovers Not Initiated (NONE AMR) (TCHH-TCHF) .Obsolete in V900R011.	B1275071425.C1278077531	Sum	hucsvbh, huctvbh
HO_REQ_DL_INTERFERE	ACCUMULATION	INT8	CH3036B:Internal Intra-Cell Handover Requests due to Downlink Intervention	B1275071425.C1278077509	Sum	hucsvbh, huctvbh
HO_REQ_UL_INTERFERE	ACCUMULATION	INT8	CH3036A:Internal Intra-Cell Handover Requests due to Uplink Intervention	B1275071425.C1278077508	Sum	hucsvbh, huctvbh
HO_REQ	ACCUMULATION	INT8	CH300:Internal Intra-Cell Handover Requests	B1275071425.C1278077481	Sum	hucsvbh, huctvbh
HO_SUCC_AMR_TCHF_TCHH	ACCUMULATION	INT8	CH3035A:Successful Internal Intra-Cell Handovers (AMR) (TCHF-TCHH)	B1275071425.C1278077506	Sum	hucsvbh, huctvbh
HO_SUCC_AMR_TCHH_T	ACCUMULATION	INT8	CH3035B:Successful Internal	B1275071425.C1278077507	Sum	hucsvbh, huctvbh

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CHF			Intra-Cell Handovers (AMR) (TCHH-TCHF)			
HO_SUCC_BSC_LOOP	ACCUMULATION	INT8	CH300a: Number of Intra-BSC Intra-Cell Handover Successes During BSC Loopback	B1275071425.C1278077518	Sum	hucsvbh, huctvbh
HO_SUCC_BTS_LOOP	ACCUMULATION	INT8	CH300b: Number of Intra-BSC Intra-Cell Handover Successes During BTS Loopback	B1275071425.C1278077520	Sum	hucsvbh, huctvbh
HO_SUCC_OLCELL	ACCUMULATION	INT8	CH3031: Successful Internal Intra-Cell Handovers (Overlaid to Underlaid)	B1275071425.C1278077501	Sum	hucsvbh, huctvbh
HO_SUCC_RATE_AMR_TCHF_TCHH	INTENSITY	FLOAT	TH3035A: Success Rate of Internal Intra-Cell Handover (AMR) (TCHF-TCHH)	B1275071425.C1278077498	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
HO_SUCC_RATE_AMR_TCHH_TCHF	INTENSITY	FLOAT	TH3035B: Success Rate of Internal Intra-Cell Handover (AMR) (TCHH-TCHF)	B1275071425.C1278077499	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
HO_SUCC_RATE_BSC_LOOP	INTENSITY	FLOAT	TH300a: Success Rate of Intra-BSC Intra-Cell Handover	B1275071425.C1278077519	Average	Average, hucsvbh, huctvbh, Maximum

			During BSC Loopback			m, Minimum, Sum
HO_SUCC_RATE_BTS_LOOP	INTENSITY	FLOAT	TH300b:Success Rate of Intra-BSC Intra-Cell Handover During BTS Loopback	B1275071425.C1278077521	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
HO_SUCC_RATE_OLULCEL	INTENSITY	FLOAT	TH3031:Success Rate of Internal Intra-Cell Handover (Overlaid to Underlaid)	B1275071425.C1278077485	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
HO_SUCC_RATE_SD_TCH	INTENSITY	FLOAT	TH3034B:Success Rate of Internal Intra-Cell Handover (Dynamic Conversion, SDCCH-TCH)	B1275071425.C1278077497	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
HO_SUCC_RATE_TCH_SD	INTENSITY	FLOAT	TH3034A:Success Rate of Internal Intra-Cell Handover (Dynamic Conversion, TCH-SDCCH)	B1275071425.C1278077496	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
HO_SUCC_RATE_TCHF_TCHH	INTENSITY	FLOAT	TH3033A:Success Rate of Internal Intra-Cell Handover (Dynamic Conversion, TCHF-TCHH)	B1275071425.C1278077494	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum

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HO_SUCC_RATE_TCHH_TCHF	INTENSITY	FLOAT	TH3033B:Success Rate of Internal Intra-Cell Handover (Dynamic Conversion, TCHH-TCHF)	B1275071425.C1278077495	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
HO_SUCC_RATE_ULOLCELL	INTENSITY	FLOAT	TH3032:Success Rate of Internal Intra-Cell Handover (Underlaid to Overlaid)	B1275071425.C1278077484	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
HO_SUCC_RATE	INTENSITY	FLOAT	TH303:Success Rate of Internal Intra-Cell Handover	B1275071425.C1278077483	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
HO_SUCC_SD_TCH	ACCUMULATION	INT8	CH3034B:Successful Internal Intra-Cell Handovers (Dynamic Conversion, SDCCH-TCH)	B1275071425.C1278077505	Sum	hucsvbh, huctvbh
HO_SUCC_TCH_SD	ACCUMULATION	INT8	CH3034A:Successful Internal Intra-Cell Handovers (Dynamic Conversion, TCH-SDCCH)	B1275071425.C1278077504	Sum	hucsvbh, huctvbh
HO_SUCC_TCHF_TCHH	ACCUMULATION	INT8	CH3033A:Successful Internal Intra-Cell Handovers (Dynamic Conversion, TCHF-TCHH)	B1275071425.C1278077502	Sum	hucsvbh, huctvbh

HO_SUCC_TC HH_TCHF	ACCUMULATION	INT8	CH3033B:Successful Internal Intra-Cell Handovers (Dynamic Conversion, TCHH-TCHF)	B1275071425.C12 78077503	Sum	hucsvbh, huctvbh
HO_SUCC_UL OLCELL	ACCUMULATION	INT8	CH3032:Successful Internal Intra-Cell Handovers (Underlaid to Overlaid)	B1275071425.C12 78077500	Sum	hucsvbh, huctvbh
HO_SUCC	ACCUMULATION	INT8	CH303:Successful Internal Intra-Cell Handovers	B1275071425.C12 78077482	Sum	hucsvbh, huctvbh
INTRABSC_H O_SUCC_RATE	INTENSITY	FLOAT	RH303B:Internal Handover Success Ratio per cell	B1275071425.C12 78077526	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
INTRABSC_R D_HO_SUCC_ RATE	INTENSITY	FLOAT	RH303C:Internal Radio Handover Success Ratio per cell	B1275071425.C12 78077527	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
SUCC_HO_NO AMR_TCHF_ TCHH	ACCUMULATION	INT8	CH3004A:Number of Successful Internal Intra-Cell Handovers (Non-AMR) (TCHF-TCHH)	B1275071425.C12 78077540	Sum	hucsvbh, huctvbh

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SUCC_HO_NO AMR_TCHH_ TCHF	ACCUMULA TION	INT8	CH3004B:Num ber of Successful Internal Intra- Cell Handovers (Non-AMR) (TCHH-TCHF)	B1275071425.C12 78077541	Sum	hucsvbh, huctvbh
SUCC_RATE_ HO_NOAMR_ TCHF_TCHH	INTENSITY	FLOA T	TH3203A:Succ ess Rate of Internal Intra- Cell Handovers (Non-AMR) (TCHF-TCHH)	B1275071425.C12 78077538	Average	hucsvbh, huctvbh, Sum, Minimu m, Maximu m
SUCC_RATE_ HO_NOAMR_ TCHH_TCHF	INTENSITY	FLOA T	TH3203B:Succ ess Rate of Internal Intra- Cell Handovers (Non-AMR) (TCHH-TCHF)	B1275071425.C12 78077539	Average	hucsvbh, huctvbh, Sum, Minimu m, Maximu m
SUCC_RATE_ OF_HO_WBA MR_NWB_WB	INTENSITY	FLOA T	TH3036B:Succ ess Rate of Internal Intra- Cell Handover (WBAMR) (NWB-WB)	B1275071425.C12 82423799	Average	hucsvbh, huctvbh, Sum, Minimu m, Maximu m
SUCC_RATE_ OF_HO_WBA MR_WB_NWB	INTENSITY	FLOA T	TH3036A:Succ ess Rate of Internal Intra- Cell Handover (WBAMR) (WB-NWB)	B1275071425.C12 82423798	Average	hucsvbh, huctvbh, Sum, Minimu m, Maximu m
TCH_HO_DR OP	INTENSITY	FLOA T	RH333:Handov er Drop Rate of TCH	B1275071425.C12 78077525	Average	Average, hucsvbh, huctvbh, Maximu m, Minimu m, Sum

**7.9.80 Cell.Huawei.GSM.Intracell\_handover\_ps**

intra cell handovers -PS

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
Fail_IncInterCell_PS_HO2G	ACCUMULATION	INTEGER	H9221: Number of Failed Incoming Inter-Cell PS Handovers Within 2G	B1275072520.C1 282429793	Sum	
Fail_IncIntRATIntCellPSHO_2G3G	ACCUMULATION	INTEGER	H9621: Number of Failed Incoming Inter-RAT Inter-Cell PS Handovers Between 2G and 3G	B1275072520.C1 282429795	Sum	
Fail_IncIntRATIntCellPSHO_2G4G	ACCUMULATION	INTEGER	H9622: Number of Failed Incoming Inter-RAT Inter-Cell PS Handovers Between 2G and 4G	B1275072520.C1 282429796	Sum	
FAIL_NC_2G_TO_3G_REELECT	ACCUMULATION	INT8	H9019: Number of Failed Network Controlled 2G to 3G Cell Reselections	B1275072520.C1 279172435	Sum	huesvbh, huctvbh
Failed_OutInterCell_PS_HO2G	ACCUMULATION	INTEGER	H9722: Number of Failed Outgoing Inter-Cell PS Handovers	B1275072520.C1 282429813	Sum	

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			Within 2G			
Failed_OutInterCell_PSHO	ACCUMULATION	INTEGER	H9723: Number of Failed Outgoing Inter-Cell PS Handovers	B1275072520.C1 282429803	Sum	
FailedNetCtrl_2Gto4GCellRes	ACCUMULATION	INTEGER	H9721: Number of Failed Network-Controlled 2G to 4G Cell Reselections	B1275072520.C1 282429614	Sum	
FailOut_IntRAT_IntCellPSHO2G3G	ACCUMULATION	INTEGER	H9521: Number of Failed Outgoing Inter-RAT Inter-Cell PS Handovers Between 2G and 3G	B1275072520.C1 282429808	Sum	
FailOut_IntRATIntCell_PSHO2G4G	ACCUMULATION	INTEGER	H9522: Number of Failed Outgoing Inter-RAT Inter-Cell PS Handovers Between 2G and 4G	B1275072520.C1 282429810	Sum	
Inc_InterCell_PSHO_ReqWithin2G	ACCUMULATION	INTEGER	H9201: Number of Incoming Inter-Cell PS Handover Requests Within 2G	B1275072520.C1 282429593	Sum	
IncInterRATIntCell_PSHOReq2G3G	ACCUMULATION	INTEGER	H9601: Number of Incoming Inter-RAT Inter-Cell PS Handover Requests	B1275072520.C1 282429603	Sum	

			Between 2G and 3G			
IncInterRATIntCell_PSHOReq2G4G	ACCUMULATION	INTEGER	H9602: Number of Incoming Inter-RAT Inter-Cell PS Handover Requests Between 2G and 4G	B1275072520.C1 282429608	Sum	
INTERB_NC_REELECT_ATT	ACCUMULATION	INT8	H9016: Number of Inter-BSC Network Controlled Cell Reselection Attempts	B1275072520.C1 279172432	Sum	hucsvbh, huctvbh
INTERRAN_NC_REELECT_ATT	ACCUMULATION	INT8	H9017: Number of Inter-RAN Network Controlled Cell Reselection Attempts	B1275072520.C1 279172433	Sum	hucsvbh, huctvbh
INTRAB_NC_REELECT_ATT	ACCUMULATION	INT8	H9015: Number of Intra-BSC Network Controlled Cell Reselection Attempts	B1275072520.C1 279172431	Sum	hucsvbh, huctvbh
MOBILE_INTO_CELL_NUM	ACCUMULATION	INT8	H9007: Number of Times a Cell Is Selected by MS	B1275072520.C1 279172423	Sum	hucsvbh, huctvbh

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MOBILE_PP_CELL_REELECT_RATE	ACCUMULATION	INT8	H9009: Number of Cell Ping-Pong Reselections by MS	B1275072520.C1 279172425	Sum	hucsvbh, huctvbh
MOBILE_SHORT_INTV_OUTCELL_NUM	ACCUMULATION	INT8	H9008: Number of Cell Reselections by MS at Short Interval	B1275072520.C1 279172424	Sum	hucsvbh, huctvbh
NC_2G_TO_3G_REELECT_ATT	ACCUMULATION	INT8	H9018: Number of Network Controlled 2G to 3G Cell Reselection Attempts	B1275072520.C1 279172434	Sum	hucsvbh, huctvbh
NC_CELL_GENERAL_REELECT_ATMPT	ACCUMULATION	INT8	H9013: Number of Network Controlled Cell Reselection Attempts for Better Cell	B1275072520.C1 279172429	Sum	hucsvbh, huctvbh
NC_CELL_LOAD_REELECT_ATMPT	ACCUMULATION	INT8	H9012: Number of Network Controlled Cell Reselection Attempts due to Traffic Load	B1275072520.C1 279172428	Sum	hucsvbh, huctvbh
NC_CELL_REELECT_ATMPT	ACCUMULATION	INT8	H9010: Number of Network Controlled Cell Reselection Attempts	B1275072520.C1 279172426	Sum	hucsvbh, huctvbh
NC_CELL_REELECT_FAIL_ATMPT	ACCUMULATION	INT8	H9014: Number of Failed Network Controlled Cell	B1275072520.C1 279172430	Sum	hucsvbh, huctvbh

			Reselections			
NC_CELL_URG_REELECT_ATMPT	ACCUMULATION	INT8	H9011: Number of Network Controlled Cell Reselection Attempts due to Downlink Quality	B1275072520.C1 279172427	Sum	hucsvbh, huctvbh
NetCtrl_2Gto4G_CellReselectAtt	ACCUMULATION	INTEGER	H9701: Number of Network-Controlled 2G to 4G Cell Reselection Attempts	B1275072520.C1 282429613	Sum	
NetCtrl_CellResAtt_SvcType	ACCUMULATION	INTEGER	H9020: Number of Network-Controlled Cell Reselection Attempts Due to Service Type	B1275072520.C1 282429797	Sum	
OLCELL_INTOLCELL_FAIL_NUM	ACCUMULATION	INT8	CH9005: Number of Failed Handovers from Overlaid Subcell to Underlaid Subcell	B1275072520.C1 279172421	Sum	hucsvbh, huctvbh
OLCELL_INTOLCELL_REQ	ACCUMULATION	INT8	H9001: Number of Overlaid Subcell to Underlaid Subcell Handover	B1275072520.C1 279172417	Sum	hucsvbh, huctvbh

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			Requests			
OLCELL_INT0_U LCELL_SUCC_N UM	ACCUMULA TION	INT8	H9003:Numb er of Successful Handovers from Overlaid Subcell to Underlaid Subcell	B1275072520.C1 279172419	Sum	hucsvbh, huctvbh
Out_IntCell_PSHO _Att_DLQual	ACCUMULA TION	INTEG ER	H9711:Numb er of Outgoing Inter-Cell PS Handover Attempts Due to Downlink Quality	B1275072520.C1 282429798	Sum	
Out_IntCell_PSHO Att_BetterCell	ACCUMULA TION	INTEG ER	H9715:Numb er of Outgoing Inter-Cell PS Handover Attempts for Better Cell	B1275072520.C1 282429802	Sum	
Out_IntCell_PSHO Att_SvcType	ACCUMULA TION	INTEG ER	H9713:Numb er of Outgoing Inter-Cell PS Handover Attempts Due to Service Type	B1275072520.C1 282429800	Sum	
Out_IntCellPSHO Att_TrafLoad	ACCUMULA TION	INTEG ER	H9714:Numb er of Outgoing Inter-Cell PS Handover Attempts Due to Traffic Load	B1275072520.C1 282429801	Sum	
Out_InterCell_PS_ HO_Att	ACCUMULA TION	INTEG ER	H9712:Numb er of	B1275072520.C1 282429799	Sum	

			Outgoing Inter-Cell PS Handover Attempts			
Out_IntRAT_IntCell_PSHOAtt2G3G	ACCUMULATION	INTEGER	H9512: Number of Outgoing Inter-RAT Inter-Cell PS Handover Attempts Between 2G and 3G	B1275072520.C1 282429807	Sum	
Out_IntRAT_IntCell_PSHOAtt2G4G	ACCUMULATION	INTEGER	H9513: Number of Outgoing Inter-RAT Inter-Cell PS Handover Attempts Between 2G and 4G	B1275072520.C1 282429809	Sum	
OutInter_RAT_IntCell_PSHOAtt	ACCUMULATION	INTEGER	H9511: Number of Outgoing Inter-RAT Inter-Cell PS Handover Attempts	B1275072520.C1 282429806	Sum	
OutInterCell_PS_HO_Att_2G	ACCUMULATION	INTEGER	H9716: Number of Outgoing Inter-Cell PS Handover Attempts Within 2G	B1275072520.C1 282429804	Sum	
ULCELL_INT0_CELL_FAIL_NUM	ACCUMULATION	INT8	CH9006: Number of Failed	B1275072520.C1 279172422	Sum	hucsvbh, huctvbh

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M			Handovers from Underlaid Subcell to Overlaid Subcell			
ULCELL_INT0_O LCELL_REQ	ACCUMULATION	INT8	H9002: Number of Underlaid Subcell to Overlaid Subcell Handover Requests	B1275072520.C1 279172418	Sum	hucsvbh, huctvbh
ULCELL_INT0_O LCELL_SUCC_N UM	ACCUMULATION	INT8	H9004: Number of Successful Handovers from Underlaid Subcell to Overlaid Subcell	B1275072520.C1 279172420	Sum	hucsvbh, huctvbh

### 7.9.81 Cell.Huawei.GSM.Intracell\_HO\_reqs\_cmds

Intracell Handover requests and commands

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
HO_CMD_AMR_TCHF_TCHH	ACCUMULATION	INT8	H3015A: Internal Intra-Cell Handover Commands (AMR) (TCHF-TCHH)	B1275071425.C12 78077474	Sum	hucsvbh, huctvbh
HO_CMD_AMR_TCHH_TCHF	ACCUMULATION	INT8	H3015B: Internal Intra-Cell Handover Commands (AMR) (TCHH-TCHF)	B1275071425.C12 78077475	Sum	hucsvbh, huctvbh

HO_CMD_BS C_LOOP	ACCUMULA TION	INT8	H301a:Internal Intra-Cell Handover Commands (BSC LOOP)	B1275071425.C12 78077512	Sum	hucsvbh, huctvbh
HO_CMD_BT S_LOOP	ACCUMULA TION	INT8	H301b:Internal Intra-Cell Handover Commands (BTS LOOP)	B1275071425.C12 78077513	Sum	hucsvbh, huctvbh
HO_CMD_NO AMR_TCHF_T CHH	ACCUMULA TION	INT8	H3201A:Intern al Intra-Cell Handover Commands (NONE AMR) (TCHF-TCHH)	B1275071425.C12 78077534	Sum	hucsvbh, huctvbh
HO_CMD_NO AMR_TCHH_ TCHF	ACCUMULA TION	INT8	H3201B:Intern al Intra-Cell Handover Commands (NONE AMR) (TCHH-TCHF)	B1275071425.C12 78077535	Sum	hucsvbh, huctvbh
HO_CMD_OL ULCELL	ACCUMULA TION	INT8	H3011:Internal Intra-Cell Handover Commands (Overlaid to Underlaid)	B1275071425.C12 78077453	Sum	hucsvbh, huctvbh
HO_CMD_SD_ TCH	ACCUMULA TION	INTEG ER	H3014B:Intern al Intra-Cell Handover Commands (Dynamic Conversion, SDCCH-TCH)	B1275071425.C12 78077465	Sum	hucsvbh, huctvbh
HO_CMD_SD	ACCUMULA TION	INT8	H3010:Internal Intra-Cell Handover	B1275071425.C12 78077419	Sum	hucsvbh, huctvbh

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			Commands (SDCCH)			
HO_CMD_TC H_SD	ACCUMULATION	INTEGER	H3014A:Internal Intra-Cell Handover Commands (Dynamic Conversion, TCH-SDCCH)	B1275071425.C12 78077464	Sum	hucsvbh, huctvbh
HO_CMD_TC HF_TCHH	ACCUMULATION	INTEGER	H3013A:Internal Intra-Cell Handover Commands (Dynamic Conversion, TCHF-TCHH)	B1275071425.C12 78077462	Sum	hucsvbh, huctvbh
HO_CMD_TC HF	ACCUMULATION	INT8	H3017:Internal Intra-Cell Handover Commands (TCHF)	B1275071425.C12 78077420	Sum	hucsvbh, huctvbh
HO_CMD_TC HH_TCHF	ACCUMULATION	INTEGER	H3013B:Internal Intra-Cell Handover Commands (Dynamic Conversion, TCHH-TCHF)	B1275071425.C12 78077463	Sum	hucsvbh, huctvbh
HO_CMD_TC HH	ACCUMULATION	INT8	H3018:Internal Intra-Cell Handover Commands (TCHH)	B1275071425.C12 78077421	Sum	hucsvbh, huctvbh
HO_CMD_UL OLCELL	ACCUMULATION	INT8	H3012:Internal Intra-Cell Handover Commands (Underlaid to Overlaid)	B1275071425.C12 78077452	Sum	hucsvbh, huctvbh
HO_CMD_WB AMR_NWB_	ACCUMULATION	INT8	H3016B:Internal Intra-Cell	B1275071425.C12 82411450	Sum	hucsvbh, huctvbh

WB			Handover Commands (WBAMR) (NWB-WB)			
HO_CMD_WB AMR_WB_N WB	ACCUMULATION	INT8	H3016A:Internal Intra-Cell Handover Commands (WBAMR) (WB-NWB)	B1275071425.C12 82411449	Sum	hucsvbh, huctvbh
HO_DETECT_ BSC_LOOP	ACCUMULATION	INT8	H304a:Internal Intra-Cell Handover Detection Messages Received by BSC LOOP	B1275071425.C12 78077516	Sum	hucsvbh, huctvbh
HO_DETECT_ BTS_LOOP	ACCUMULATION	INT8	H304b:Internal Intra-Cell Handover Detection Messages Received by BTS LOOP	B1275071425.C12 78077517	Sum	hucsvbh, huctvbh
HO_DETECT_ SD	ACCUMULATION	INT8	H3040:Internal Intra-Cell Handover Detection Messages Received by BSC (SDCCH)	B1275071425.C12 78077478	Sum	hucsvbh, huctvbh
HO_DETECT_ SPEECH_VER _3_TCHF	ACCUMULATION	INT8	H3099X:BSC Intra-cell Handover Detection Times (AMR) (TCHF)	B1275071425.C12 78077528	Sum	hucsvbh, huctvbh
HO_DETECT_	ACCUMULATION	INT8	H3099Y:BSC	B1275071425.C12	Sum	hucsvbh,

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SPEECH_VER_3_TCHH	TION		Intra-cell Handover Detection Times (AMR) (TCHH)	78077529		huctvbh
HO_DETECT_TCHF	ACCUMULATION	INT8	H3047:Internal Intra-Cell Handover Detection Messages Received by BSC (TCHF)	B1275071425.C12 78077479	Sum	hucsvbh, huctvbh
HO_DETECT_TCHH	ACCUMULATION	INT8	H3048:Internal Intra-Cell Handover Detection Messages Received by BSC (TCHH)	B1275071425.C12 78077480	Sum	hucsvbh, huctvbh
HO_NO_TRIG_AMR_TCHF_TCHH	ACCUMULATION	INTEGER	H3055A:Internal Intra-Cell Handovers Not Initiated (AMR) (TCHF-TCHH)	B1275071425.C12 78077470	Sum	hucsvbh, huctvbh
HO_NO_TRIG_AMR_TCHH_TCHF	ACCUMULATION	INTEGER	H3055B:Internal Intra-Cell Handovers Not Initiated (AMR) (TCHH-TCHF)	B1275071425.C12 78077471	Sum	hucsvbh, huctvbh
HO_REQ_AMR_TCHF_TCHH	ACCUMULATION	INT8	H3005A:Internal Intra-Cell Handover Requests (AMR) (TCHF-TCHH)	B1275071425.C12 78077472	Sum	hucsvbh, huctvbh
HO_REQ_AMR_TCHH_TCHF	ACCUMULATION	INT8	H3005B:Internal Intra-Cell Handover Requests (AMR)	B1275071425.C12 78077473	Sum	hucsvbh, huctvbh

			(TCHH-TCHF)			
HO_REQ_BSC_LOOP	ACCUMULATION	INT8	H300a:Internal Intra-Cell Handover Requests (BSC LOOP)	B1275071425.C1278077510	Sum	hucsvbh, huctvbh
HO_REQ_BTS_LOOP	ACCUMULATION	INT8	H300b:Internal Intra-Cell Handover Requests (BTS LOOP)	B1275071425.C1278077511	Sum	hucsvbh, huctvbh
HO_REQ_OLU_LCELL	ACCUMULATION	INT8	H3001:Internal Intra-Cell Handover Requests (Overlaid to Underlaid)	B1275071425.C1278077451	Sum	hucsvbh, huctvbh
HO_REQ_SD_TCH	ACCUMULATION	INTEGER	H3004B:Internal Intra-Cell Handover Requests (Dynamic Conversion, SDCCH-TCH)	B1275071425.C1278077461	Sum	hucsvbh, huctvbh
HO_REQ_SD	ACCUMULATION	INT8	H3000:Internal Intra-Cell Handover Requests (SDCCH)	B1275071425.C1278077417	Sum	hucsvbh, huctvbh
HO_REQ_TCH_SD	ACCUMULATION	INTEGER	H3004A:Internal Intra-Cell Handover Requests (Dynamic Conversion, TCH-SDCCH)	B1275071425.C1278077460	Sum	hucsvbh, huctvbh
HO_REQ_TCH	ACCUMULATION	INTEGER	H3003A:Intern	B1275071425.C12	Sum	hucsvbh,

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F_TCHH	TION	ER	al Intra-Cell Handover Requests (Dynamic Conversion, TCHF-TCHH)	78077458		huctvbh
HO_REQ_TCHH_TCHF	ACCUMULATION	INTEGER	H3003B:Internal Intra-Cell Handover Requests (Dynamic Conversion, TCHH-TCHF)	B1275071425.C12 78077459	Sum	hucsvbh, huctvbh
HO_REQ_TCH	ACCUMULATION	INT8	H3009:Internal Intra-Cell Handover Requests (TCH)	B1275071425.C12 78077418	Sum	hucsvbh, huctvbh
HO_REQ_ULOCCELL	ACCUMULATION	INT8	H3002:Internal Intra-Cell Handover Requests (Underlaid to Overlaid)	B1275071425.C12 78077450	Sum	hucsvbh, huctvbh
HO_RQ_NOAMR_TCHF_TCHH	ACCUMULATION	INT8	H3200A:Internal Intra-Cell Handover Requests (NONE AMR) (TCHF-TCHH)	B1275071425.C12 78077532	Sum	hucsvbh, huctvbh
HO_RQ_NOAMR_TCHH_TCHF	ACCUMULATION	INT8	H3200B:Internal Intra-Cell Handover Requests (NONE AMR) (TCHH-TCHF)	B1275071425.C12 78077533	Sum	hucsvbh, huctvbh
HO_RQ_WBAMR_NWB_WB	ACCUMULATION	INT8	H3006B:Internal Intra-Cell Handover Requests (WBAMR) (NWB-WB)	B1275071425.C12 82411448	Sum	hucsvbh, huctvbh

HO_RQ_WBA MR_WB_NWB	ACCUMULATION	INT8	H3006A:Internal Intra-Cell Handover Requests (WBAMR) (WB-NWB)	B1275071425.C12 82411447	Sum	hucsvbh, huctvbh
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### 7.9.82 Cell.Huawei.GSM.Key\_performance\_indicators

Key performance indicators on the cell

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
KPI_DUBAND_HO_FAI	ACCUMULATION	INT8	K3173F:Failed Dual-Band Handovers	B1275071435.C12 78087449	Sum	hucsvbh, huctvbh
KPI_DUBAND_HO_REQ	ACCUMULATION	INT8	K3170:Dual-Band Handover Requests	B1275071435.C12 78087441	Sum	hucsvbh, huctvbh
KPI_DUBAND_HO_SUCC	ACCUMULATION	INT8	K3173:Successful Dual-Band Handovers	B1275071435.C12 78087442	Sum	hucsvbh, huctvbh
KPI_IMM_ASS_CMD	ACCUMULATION	INT8	K3101:Immediate Assignment Commands	B1275071435.C12 78087418	Sum	hucsvbh, huctvbh
KPI_IMM_ASS_REQ	ACCUMULATION	INT8	K3100:Immediate Assignment Requests	B1275071435.C12 78087417	Sum	hucsvbh, huctvbh
KPI_SD_AVAL_NUM	INTENSITY	FLOAT	K3005:Available SDCCHs	B1275071435.C12 78087423	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
KPI_SD_CFG_	INTENSITY	FLOAT	K3006:Configu	B1275071435.C12	Average	Average,

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NUM		T	red SDCCHs	78087424		hucsvbh, huctvbh, Maximum, Minimum, Sum
KPI_SD_CONGEST	ACCUMULATION	INT8	K3001:Failed SDCCH Seizures due to Busy SDCCH	B1275071435.C12 78087420	Sum	hucsvbh, huctvbh
KPI_SD_REQ	ACCUMULATION	INT8	K3000:SDCCH Seizure Requests	B1275071435.C12 78087419	Sum	hucsvbh, huctvbh
KPI_SD_SUCC	ACCUMULATION	INT8	K3003:Successful SDCCH Seizures	B1275071435.C12 78087421	Sum	hucsvbh, huctvbh
KPI_SD_TRAFFERL	INTENSITY	FLOAT	K3004:Traffic Volume on SDCCH	B1275071435.C12 78087422	Average	Average, huctvbh, Maximum, Minimum, Sum
KPI_TCH_ASSCONG_TRAFF	ACCUMULATION	INT8	K3011A:Failed TCH Seizures due to Busy TCH (Traffic Channel)	B1275071435.C12 78087431	Sum	hucsvbh, huctvbh
KPI_TCH_ASSREQ_TRAFF	ACCUMULATION	INT8	K3010A:TCH Seizure Requests (Traffic Channel)	B1275071435.C12 78087430	Sum	hucsvbh, huctvbh
KPI_TCH_ASSSUCC_TRAFF_TCHF	ACCUMULATION	INT8	RM3178:Successful TCH Seizures (Traffic Channel) (TCHF)	B1275071435.C12 78087453	Sum	hucsvbh, huctvbh
KPI_TCH_ASSSUCC_TRAFF_TCHH	ACCUMULATION	INT8	RM3278:Successful TCH Seizures	B1275071435.C12 78087452	Sum	hucsvbh, huctvbh

			(Traffic Channel) (TCHH)			
KPI_TCH_ASS_SUCC_TRAF	ACCUMULATION	INT8	K3013A:Successful TCH Seizures (Traffic Channel)	B1275071435.C12 78087432	Sum	hucsvbh, huctvbh
KPI_TCH_AVAIL_NUM	INTENSITY	FLOAT	K3015:Available TCHs	B1275071435.C12 78087439	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
KPI_TCH_CFG_NUM	INTENSITY	FLOAT	K3016:Configured TCHs	B1275071435.C12 78087440	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
KPI_TCH_CONG_SIG	ACCUMULATION	INT8	K3021:Failed TCH Seizures due to Busy TCH (Signaling Channel)	B1275071435.C12 78087426	Sum	hucsvbh, huctvbh
KPI_TCH_DROPS_SIG	ACCUMULATION	INT8	K3022:Call Drops on TCH (Signaling Channel)	B1275071435.C12 78087428	Sum	hucsvbh, huctvbh
KPI_TCH_HO_CONGEST_TRAF	ACCUMULATION	INT8	K3011B:Failed TCH Seizures in TCH Handovers due to Busy TCH (Traffic Channel)	B1275071435.C12 78087435	Sum	hucsvbh, huctvbh

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KPI_TCH_HO_DROPS_TRAF	ACCUMULATION	INT8	K3012B:Call Drops in TCH Handovers (Traffic Channel)	B1275071435.C12 78087437	Sum	hucsvbh, huctvbh
KPI_TCH_HO_REQ_TRAF	ACCUMULATION	INT8	K3010B:TCH Seizure Requests in TCH Handovers (Traffic Channel)	B1275071435.C12 78087434	Sum	hucsvbh, huctvbh
KPI_TCH_HO_SUCC_TRAF_TCHF	ACCUMULATION	INT8	RM3179:Successful TCH Seizures in TCH handovers (Traffic Channel) (TCHF)	B1275071435.C12 78087455	Sum	hucsvbh, huctvbh
KPI_TCH_HO_SUCC_TRAF_TCHH	ACCUMULATION	INT8	RM3279:Successful TCH Seizures in TCH handovers (Traffic Channel) (TCHH)	B1275071435.C12 78087454	Sum	hucsvbh, huctvbh
KPI_TCH_HO_SUCC_TRAF	ACCUMULATION	INT8	K3013B:Successful TCH Seizures in TCH handovers (Traffic Channel)	B1275071435.C12 78087436	Sum	hucsvbh, huctvbh
KPI_TCH_REQ_SIG	ACCUMULATION	INT8	K3020:TCH Seizure Requests (Signaling Channel)	B1275071435.C12 78087425	Sum	hucsvbh, huctvbh
KPI_TCH_STATIC_DROPS_TRAF	ACCUMULATION	INT8	K3012A:Call Drops on TCH in Stable State (Traffic Channel)	B1275071435.C12 78087433	Sum	hucsvbh, huctvbh

KPI_TCH_SUC C_SIG_TCHF	ACCUMULA TION	INT8	RM3176:Succe ssful TCH Seizures (Signaling Channel) (TCHF)	B1275071435.C12 78087451	Sum	hucsvbh, huctvbh
KPI_TCH_SUC C_SIG_TCHH	ACCUMULA TION	INT8	RM3276:Succe ssful TCH Seizures (Signaling Channel) (TCHH)	B1275071435.C12 78087450	Sum	hucsvbh, huctvbh
KPI_TCH_SUC C_SIG	ACCUMULA TION	INT8	K3023:Success ful TCH Seizures (Signaling Channel)	B1275071435.C12 78087427	Sum	hucsvbh, huctvbh
KPI_TCH_SUC C	ACCUMULA TION	INT8	K3040:Success ful TCH Seizures	B1275071435.C12 78087447	Sum	hucsvbh, huctvbh
KPI_TCH_TRA F_ERL_SIG	INTENSITY	FLOA T	K3024:Traffic Volume on TCH (Signaling Channel)	B1275071435.C12 78087429	Average	Average, hucsvbh, huctvbh, Maximum, Minimu m, Sum
KPI_TCH_TRA F_ERL_TRAF	INTENSITY	FLOA T	K3014:Traffic Volume on TCH	B1275071435.C12 78087438	Average	Average, hucsvbh, Maximum, Minimu m, Sum
KPI_TCHH_TR AF_ERL	INTENSITY	FLOA T	K3034:TCHH Traffic Volume	B1275071435.C12 78087445	Average	Average, hucsvbh, huctvbh, Maximum, Minimu m,

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						Minimum, Sum
RATE_TCH_CONG	INTENSITY	FLOAT	K3045:Congestion Ratio on TCH(All Channels Busy)	B1275071435.C1278087448	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
TCH_OVERFLOW_RATE	INTENSITY	FLOAT	K3041:TCH Congestion Rate(Overflow)	B1275071435.C1278087443	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
TCH_SEIZURE_RATE	INTENSITY	FLOAT	K3043:TCH Seizure Success Rate	B1275071435.C1278087444	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
TRX_CFG_AVAAIL_RATE	INTENSITY	FLOAT	RK3255:TRX Usability	B1275071435.C1278087446	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum

### 7.9.83 Cell.Huawei.GSM.Local\_switch\_atmpt\_succ\_fails

Local switch attempts, successes and failures

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
BSCLOOP_HO_BSC_LOOP_FAIL	ACCUMULATION	INT8	R382d:Number of BSC Loopback Failures after	B1275071437.C1278089430	Sum	

			the Handover during the BSC Loopback			
BSCLOOP_HO_BSCLOOP_SUCCESS	ACCUMULATION	INT8	R3830b: Number of Successful BSC Loopback Attempts after the Handover during the BSC Loopback	B1275071437.C1278089435	Sum	
BSCLOOP_HO_BTS_LOOP_FAIL	ACCUMULATION	INT8	R382c: Number of BTS Loopback Failures after the Handover during the BSC Loopback	B1275071437.C1278089429	Sum	
BSCLOOP_HO_BTSLOOP_SUCCESS	ACCUMULATION	INT8	R3831b: Number of Successful BTS Loopback Attempts after the Handover during the BSC Loopback	B1275071437.C1278089436	Sum	
BSCLOOP_SUCCESS	ACCUMULATION	INT8	R3830: Number of Successful BSC Loopback Attempts	B1275071437.C1278089431	Sum	
BTSLOOP_HO_BSC_LOOP_FAIL	ACCUMULATION	INT8	R382b: Number of BSC Loopback Failures after the Handover during the BTS Loopback	B1275071437.C1278089428	Sum	
BTSLOOP_HO_BSCLOOP_SUCCESS	ACCUMULATION	INT8	R3830a: Number of Successful BSC Loopback	B1275071437.C1278089433	Sum	

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			Attempts after the Handover during the BTS Loopback			
BTSLOOP_HO_BTS_LOOP_FAIL	ACCUMULATION	INT8	R382a: Number of BTS Loopback Failures after the Handover during the BTS Loopback	B1275071437.C1278089427	Sum	
BTSLOOP_HO_BTSLOOP_SUCCESS	ACCUMULATION	INT8	R3831a: Number of Successful BTS Loopback Attempts after the Handover during the BTS Loopback	B1275071437.C1278089434	Sum	
BTSLOOP_SUCCESS	ACCUMULATION	INT8	R3831: Number of Successful BTS Loopback Attempts	B1275071437.C1278089432	Sum	
LOOP_CALL_DETECT	ACCUMULATION	INT8	R380: Number of Call Detect Messages Originated during Local Switching	B1275071437.C1278089417	Sum	
LOOP_FAIL_APPLY_TRSL_FAIL	ACCUMULATION	INT8	R3824: Number of Loopback Start Failure (Territorial Resource Request Failure)	B1275071437.C1278089423	Sum	
LOOP_FAIL_BTS_FAIL	ACCUMULATION	INT8	R3823: Number of Loopback Start Failures (Failures on the BTS Side)	B1275071437.C1278089422	Sum	
LOOP_FAIL_B	ACCUMULATION	INT8	R3826: Number	B1275071437.C127	Sum	

TS_NOT_SUPPORT	TION		of Loopback Start Failures (Not Support by the BTS)	8089425		
LOOP_FAIL_EXP	ACCUMULATION	INT8	R3825: Number of Loopback Start Failure (Timer Expired)	B1275071437.C127 8089424	Sum	
LOOP_FAIL_INVALID_STATE	ACCUMULATION	INT8	R3822: Number of Loopback Start Failures (Invalid State)	B1275071437.C127 8089421	Sum	
LOOP_FAIL_NO_LOOP_POLICY	ACCUMULATION	INT8	R3820: Number of Loopback Start Failures (No Loopback Policy Available)	B1275071437.C127 8089419	Sum	
LOOP_FAIL_OTHER	ACCUMULATION	INT8	R3827: Number of Loopback Start Failures (Other Causes)	B1275071437.C127 8089426	Sum	
LOOP_FAIL_SVR_ADJUST_FAIL	ACCUMULATION	INT8	R3821: Number of Loopback Start Failures (Speech Version Adjustment Failure)	B1275071437.C127 8089420	Sum	
LOOP_RESTORE_OTHER_FAIL_BSC_LOOP	ACCUMULATION	INT8	R3850b: Number of Failures to Return to Normal Call from BSC Loopback (Others)	B1275071437.C127 8089442	Sum	
LOOP_RESTORE	ACCUMULATION	INT8	R3851b: Numbe	B1275071437.C127	Sum	

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RE_OTHER_FAIL_BTS_LOOP	TION		r of Failures to Return to Normal Call from BTS Loopback (Others)	8089443		
LOOP_RSTR_APPLY_TRSL_FAIL_BSC_LP	ACCUMULATION	INT8	R3850a: Number of Failures to Return to Normal Call from BSC Loopback (Territorial Resource Request Failure)	B1275071437.C1278089440	Sum	
LOOP_RSTR_APPLY_TRSL_FAIL_BTS_LP	ACCUMULATION	INT8	R3851a: Number of Failures to Return to Normal Call from BTS Loopback (Territorial Resource Request Failure)	B1275071437.C1278089441	Sum	
LOOP_START_TRY	ACCUMULATION	INT8	R381: Number of Loopback Start Attempts	B1275071437.C1278089418	Sum	
RESTORE_TRY_BSC_LOOP	ACCUMULATION	INT8	R3840: Number of Attempts to Return to Normal Call from BSC Loopback	B1275071437.C1278089438	Sum	
RESTORE_TRY_BTS_LOOP	ACCUMULATION	INT8	R3841: Number of Attempts to Return to Normal Call from BTS Loopback	B1275071437.C1278089439	Sum	

**7.9.84 Cell.Huawei.GSM.Local\_switch\_call\_drops**

Local switch call drops

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ABIS_LNK_FAIL_BSC_LOOP	ACCUMULATION	INT8	M373:Call Drops Due to Abis Terrestrial Link Failure in Stable BSC Loopback State	B1275071437.C1278089468	Sum	
ABIS_LNK_FAIL_BTS_LOOP	ACCUMULATION	INT8	M383:Call Drops Due to Abis Terrestrial Link Failure in Stable BTS Loopback State	B1275071437.C1278089469	Sum	
APPLY_TRSL_FAIL_BSC_LOOP_TCHF	ACCUMULATION	INT8	M3151:Call Drops on TCHF Due to Failures to Return to Normal Call from BSC Loopback (Territorial Resource Request Failure)	B1275071437.C1278089494	Sum	
APPLY_TRSL_FAIL_BSC_LOOP_TCHH	ACCUMULATION	INT8	M3251:Call Drops on TCHH Due to Failures to Return to Normal Call from BSC Loopback (Territorial Resource	B1275071437.C1278089495	Sum	

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			Request Failure)			
APPLY_TRSL_FAIL_BSC_LOOP	ACCUMULATION	INT8	M3751:Call Drops Due to Failures to Return to Normal Call from BSC Loopback (Territorial Resource Request Failure)	B1275071437.C1278089474	Sum	
APPLY_TRSL_FAIL_BTS_LOOP_TCHF	ACCUMULATION	INT8	M3151a:Call Drops on TCHF Due to Failures to Return to Normal Call from BTS Loopback (Territorial Resource Request Failure)	B1275071437.C1278089496	Sum	
APPLY_TRSL_FAIL_BTS_LOOP_TCHH	ACCUMULATION	INT8	M3251a:Call Drops on TCHH Due to Failures to Return to Normal Call from BTS Loopback (Territorial Resource Request Failure)	B1275071437.C1278089497	Sum	
APPLY_TRSL_FAIL_BTS_LOOP	ACCUMULATION	INT8	M3851:Call Drops Due to Failures to Return to Normal Call from BTS Loopback	B1275071437.C1278089475	Sum	

			(Territorial Resource Request Failure)			
BSCLOOP_FAIL_APPLY_TRSL_FAIL_TCHF	ACCUMULATION	INT8	M3120:Call Drops on TCHF Due to BSC Loopback Start Failure (Territorial Resource Request Failure)	B1275071437.C1278089480	Sum	
BSCLOOP_FAIL_APPLY_TRSL_FAIL_TCHH	ACCUMULATION	INT8	M3220:Call Drops on TCHH Due to BSC Loopback Start Failure (Territorial Resource Request Failure)	B1275071437.C1278089481	Sum	
BSCLOOP_FAIL_APPLY_TRSL_FAIL	ACCUMULATION	INT8	M3720:Call Drops Due to BSC Loopback Start Failure (Territorial Resource Request Failure)	B1275071437.C1278089450	Sum	
BSCLOOP_FAIL_OTHER_TCHF	ACCUMULATION	INT8	M3121:Call Drops on TCHF Due to BSC Loopback Start Failure (Others)	B1275071437.C1278089482	Sum	
BSCLOOP_FAIL_OTHER_TCHH	ACCUMULATION	INT8	M3221:Call Drops on TCHH Due to	B1275071437.C1278089483	Sum	

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			BSC Loopback Start Failure (Others)			
BTSLOOP_FAIL_APPLY_TRSL_FAIL_TCHF	ACCUMULATION	INT8	M3120a:Call Drops on TCHF Due to BTS Loopback Start Failure (Territorial Resource Request Failure)	B1275071437.C1278089484	Sum	
BTSLOOP_FAIL_APPLY_TRSL_FAIL_TCHH	ACCUMULATION	INT8	M3220a:Call Drops on TCHH Due to BTS Loopback Start Failure (Territorial Resource Request Failure)	B1275071437.C1278089485	Sum	
BTSLOOP_FAIL_APPLY_TRSL_FAIL	ACCUMULATION	INT8	M3820:Call Drops Due to BTS Loopback Start Failure (Territorial Resource Request Failure)	B1275071437.C1278089452	Sum	
BTSLOOP_FAIL_BTS_FAIL_TCHF	ACCUMULATION	INT8	M3121a:Call Drops on TCHF Due to BTS Loopback Start Failure (Failures on the BTS Side)	B1275071437.C1278089486	Sum	
BTSLOOP_FAIL_BTS_FAIL_TCHH	ACCUMULATION	INT8	M3221a:Call Drops on TCHH Due to BTS Loopback Start Failure (Failures on the BTS Side)	B1275071437.C1278089487	Sum	

BTSLOOP_FAIL_BTS_FAIL	ACCUMULATION	INT8	M3821:Call Drops Due to BTS Loopback Start Failure (Failures on the BTS Side)	B1275071437.C127 8089453	Sum	
BTSLOOP_FAIL_OTHER_TCHF	ACCUMULATION	INT8	M3122:Call Drops on TCHF Due to BTS Loopback Start Failure (Others)	B1275071437.C127 8089488	Sum	
BTSLOOP_FAIL_OTHER_TCHH	ACCUMULATION	INT8	M3222:Call Drops on TCHH Due to BTS Loopback Start Failure (Others)	B1275071437.C127 8089489	Sum	
CALL_DROPS_BSCLOOP_FAIL_OTHER	ACCUMULATION	INT8	M3721:Call Drops Due to BSC Loopback Start Failure (Others)	B1275071437.C127 8089451	Sum	
CALL_DROPS_BTSLOOP_FAIL_OTHER	ACCUMULATION	INT8	M3822:Call Drops Due to BTS Loopback Start Failure (Others)	B1275071437.C127 8089454	Sum	
CALL_DROPS_CONN_FAIL_BSC_LOOP	ACCUMULATION	INT8	M3701:Call Drops Due to Connection Failures in Stable BSC Loopback State	B1275071437.C127 8089458	Sum	
CALL_DROPS_CONN_FAIL_BTS_LOOP	ACCUMULATION	INT8	M3801:Call Drops Due to Connection Failures in Stable BTS	B1275071437.C127 8089459	Sum	

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			Loopback State			
CALL_DROPS _EQUIP_FAIL_ BSC_LOOP	ACCUMULA TION	INT8	M374:Call Drops Due to Equipment Failures in Stable BSC Loopback State	B1275071437.C127 8089470	Sum	
CALL_DROPS _EQUIP_FAIL_ BTS_LOOP	ACCUMULA TION	INT8	M384:Call Drops Due to Equipment Failures in Stable BTS Loopback State	B1275071437.C127 8089471	Sum	
CALL_DROPS _ERR_IND_BS C_LOOP	ACCUMULA TION	INT8	M3700:Call Drops Due to Error Indications in Stable BSC Loopback State	B1275071437.C127 8089460	Sum	
CALL_DROPS _ERR_IND_BT S_LOOP	ACCUMULA TION	INT8	M3800:Call Drops Due to Error Indications in Stable BTS Loopback State	B1275071437.C127 8089461	Sum	
CALL_DROPS _FORCE_HO_ BSC_LOOP	ACCUMULA TION	INT8	M375:Call Drops Due to Forced Handovers in Stable BSC Loopback State	B1275071437.C127 8089466	Sum	
CALL_DROPS _FORCE_HO_ BTS_LOOP	ACCUMULA TION	INT8	M385:Call Drops Due to Forced Handovers in Stable BTS Loopback State	B1275071437.C127 8089467	Sum	
CALL_DROPS _LOOP_FAIL_ EXP	ACCUMULA TION	INT8	M390:Call Drops Due to Loopback Start Failure (Timer	B1275071437.C127 8089455	Sum	

			Expired)			
CALL_DROPS_LOOP_HO_FAIL_TCHF	ACCUMULATION	INT8	CM318:Call Drops on TCHF Due to Handover Failure During the Loopback	B1275071437.C1278089492	Sum	
CALL_DROPS_LOOP_HO_FAIL_TCHH	ACCUMULATION	INT8	CM328:Call Drops on TCHH Due to Handover Failure During the Loopback	B1275071437.C1278089493	Sum	
CALL_DROPS_LOOP_HO_FAIL	ACCUMULATION	INT8	CM398:Call Drops Due to Handover Failure During the Loopback	B1275071437.C1278089457	Sum	
CALL_DROPS_NO_MR_BSC_LOOP	ACCUMULATION	INT8	M372:Call Drops Due to No MRs from MS in Stable BSC Loopback State	B1275071437.C1278089464	Sum	
CALL_DROPS_NO_MR_BTS_LOOP	ACCUMULATION	INT8	M382:Call Drops Due to No MRs from MS in Stable BTS Loopback State	B1275071437.C1278089465	Sum	
CALL_DROPS_REL_IND_BSC_LOOP	ACCUMULATION	INT8	M3702:Call Drops Due to Release Indications in Stable BSC Loopback State	B1275071437.C1278089462	Sum	
CALL_DROPS	ACCUMULATION	INT8	M3802:Call	B1275071437.C127	Sum	

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_REL_IND_BT S_LOOP	TION		Drops Due to Release Indications in Stable BTS Loopback State	8089463		
LOOP_FAIL_T IMEOUT_TCH F	ACCUMULA TION	INT8	M310:Call Drops on TCHF Due to Loopback Start Failure (Timer Expired)	B1275071437.C127 8089490	Sum	
LOOP_FAIL_T IMEOUT_TCH H	ACCUMULA TION	INT8	M320:Call Drops on TCHH Due to Loopback Start Failure (Timer Expired)	B1275071437.C127 8089491	Sum	
OTHER_FAIL_ BSC_LOOP_T CHF	ACCUMULA TION	INT8	M3152:Call Drops on TCHF Due to Failures to Return to Normal Call from BSC Loopback (Others)	B1275071437.C127 8089498	Sum	
OTHER_FAIL_ BSC_LOOP_T CHH	ACCUMULA TION	INT8	M3252:Call Drops on TCHH Due to Failures to Return to Normal Call from BSC Loopback (Others)	B1275071437.C127 8089499	Sum	
OTHER_FAIL_ BSC_LOOP	ACCUMULA TION	INT8	M3752:Call Drops Due to Failures to Return to Normal Call from BSC Loopback (Others)	B1275071437.C127 8089476	Sum	

OTHER_FAIL_BTS_LOOP_TCHF	ACCUMULATION	INT8	M3152a:Call Drops on TCHF Due to Failures to Return to Normal Call from BTS Loopback (Others)	B1275071437.C1278089500	Sum	
OTHER_FAIL_BTS_LOOP_TCHH	ACCUMULATION	INT8	M3252a:Call Drops on TCHH Due to Failures to Return to Normal Call from BTS Loopback (Others)	B1275071437.C1278089501	Sum	
OTHER_FAIL_BTS_LOOP	ACCUMULATION	INT8	M3852:Call Drops Due to Failures to Return to Normal Call from BTS Loopback (Others)	B1275071437.C1278089477	Sum	

### 7.9.85 Cell.Huawei.GSM.Local\_switch\_overview

Local switch overview

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ATT_TO_RTNC_FR_BSCLS	ACCUMULATION	INT8	R3842:Number of Attempts to Return to Normal Call from BSC Loopback	B1275071437.C1278089503	Sum	

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			(Service)			
ATT_TO_RTNC_FR_BTSL	ACCUMULATION	INT8	R3843: Number of Attempts to Return to Normal Call from BTS Loopback (Service)	B1275071437.C1278089504	Sum	
BSC_LOOP_RESTORE_FAIL	ACCUMULATION	INT8	CR3850: Number of Failures to Return to Normal Call from BSC Loopback	B1275071437.C1278089444	Sum	
BSC_LOOP_RESTORE_RATE	INTENSITY	FLOAT	TR3860: BSC Loopback to Normal Call Success Rate	B1275071437.C1278089448	Average	Average, Maximum, Minimum, Sum
BSC_LOOP_RESTORE_SUCC	ACCUMULATION	INT8	R3860: Number of Successful Attempts to Return to Normal Call from BSC Loopback	B1275071437.C1278089446	Sum	
BTS_LOOP_RESTORE_FAIL	ACCUMULATION	INT8	CR3851: Number of Failures to Return to Normal Call from BTS Loopback	B1275071437.C1278089445	Sum	
BTS_LOOP_RESTORE_RATE	INTENSITY	FLOAT	TR3861: BTS Loopback to Normal Call Success Rate	B1275071437.C1278089449	Average	Average, Maximum, Minimum, Sum
BTS_LOOP_RESTORE_SUCC	ACCUMULATION	INT8	R3861: Number of Successful Attempts to Return to	B1275071437.C1278089447	Sum	

			Normal Call from BTS Loopback			
CD_FAIL_TO_RTNC_FR_BSC_LS	ACCUMULATION	INT8	M3753:Call Drops Due to Failures to Return to Normal Call from BSC Loopback (Service)	B1275071437.C12 78089507	Sum	
CD_FAIL_TO_RTNC_FR_BTS_LS	ACCUMULATION	INT8	M3853:Call Drops Due to Failures to Return to Normal Call from BTS Loopback (Service)	B1275071437.C12 78089508	Sum	
FAIL_TO_RTNC_FR_BSCLS	ACCUMULATION	INT8	R3850c:Number of Failures to Return to Normal Call from BSC Loopback (Service)	B1275071437.C12 78089505	Sum	
FAIL_TO_RTNC_FR_BTSLs	ACCUMULATION	INT8	R3851c:Number of Failures to Return to Normal Call from BTS Loopback (Service)	B1275071437.C12 78089506	Sum	
LOOP_DROPS	ACCUMULATION	INT8	CM390:Call Drops During Loopback	B1275071437.C12 78089479	Sum	
LOOP_RESTORE_FAIL_DRO	ACCUMULATION	INT8	CM385:Call Drops Due to	B1275071437.C12 78089478	Sum	

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PS			Failures to Return to Normal Call from Loopback			
LOOP_START_FAIL_DROPS	ACCUMULATION	INT8	CM397:Call Drops Due to Loopback Start Failure	B1275071437.C1278089456	Sum	
LOOP_START_FAIL	ACCUMULATION	INT8	CR382:Number of Loopback Start Failures	B1275071437.C1278089437	Sum	
LOOPBACK_START_FAIL_SVC	ACCUMULATION	INT8	R3828:Number of Loopback Start Failures (Service)	B1275071437.C1278089502	Sum	
TCH_STAT_STATE_CALL_DROPS_BSC_LP	ACCUMULATION	INT8	CM370:Call Drops in Stable BSC Loopback State	B1275071437.C1278089472	Sum	
TCH_STAT_STATE_CALL_DROPS_BTS_LP	ACCUMULATION	INT8	CM380:Call Drops in Stable BTS Loopback State	B1275071437.C1278089473	Sum	

### 7.9.86 Cell.Huawei.GSM.Location\_update\_measurement

Measurement related to location update

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ACCEPTED_LOC_UPD_REQ	ACCUMULATION	INT8	LA303:Number of Accepted Location Update Requests	B1290793542.C1282412148	Sum	
LOC_UPD_REQ_IMSI_ATTACH	ACCUMULATION	INT8	LA302:Number of Location Update Requests (IMSI Attach)	B1290793542.C1282412147	Sum	

LOC_UPD_RQ_NORMAL_LOC_UPD	ACCUMULATION	INT8	LA300: Number of Location Update Requests (Normal Location Update)	B1290793542.C128 2412145	Sum	
LOC_UPD_RQ_PERIODIC_LOC_UPD	ACCUMULATION	INT8	LA301: Number of Location Update Requests (Periodic Location Update)	B1290793542.C128 2412146	Sum	
REJ_LOC_UPD_RQ_CONG	ACCUMULATION	INT8	LA308: Number of Rejected Location Update Requests (Congestion)	B1290793542.C128 2412153	Sum	
REJ_LOC_UPD_RQ_INTERFACE_UNAVL	ACCUMULATION	INT8	LA307: Number of Rejected Location Update Requests (Interface Unavailable)	B1290793542.C128 2412152	Sum	
REJ_LOC_UPD_RQ_NORM_FAILURE	ACCUMULATION	INT8	LA305: Number of Rejected Location Update Requests (Normal Failure)	B1290793542.C128 2412150	Sum	
REJ_LOC_UPD_RQ_PLMN_NO_ALLOW	ACCUMULATION	INT8	LA306: Number of Rejected Location Update	B1290793542.C128 2412151	Sum	

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			Requests (Not Allowed by the PLMN)			
REJ_LOC_UPD_RQ	ACCUMULATION	INT8	LA304: Number of Rejected Location Update Requests	B1290793542.C128 2412149	Sum	

### 7.9.87 Cell.Huawei.GSM.Maximum\_busy\_channels

Maximum number of busy channels

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CH_BUSY_MAXIMUM_NUM_FR	INTENSITY	INT8	R3561: Maximum Number of Busy Channels (TCHF)	B1275071820.C1278 472418	Constant	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_BUSY_MAXIMUM_NUM_HR	INTENSITY	INT8	R3562: Maximum Number of Busy Channels (TCHH)	B1275071820.C1278 472419	Constant	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
CH_BUSY_MAXIMUM_NUM_SD	INTENSITY	INT8	R3560: Maximum Number of Busy Channels (SDCCH)	B1275071820.C1278 472417	Constant	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum

### 7.9.88 Cell.Huawei.GSM.Mean\_BEP\_8PSK

Mean BEP for 8PSK

KPI	Type	Data	Description	Derivation	Default	Other
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		Type			Aggregator	Aggregators
BEP_8PSK_MEAN_BEP_EQU_1_NUM	ACCUMULATION	INTEGER	S9101: Number of Times 8PSK_MEAN_BEP=1	B1275072530.C127 9182417	Sum	hucsvbh, huctvbh
BEP_8PSK_MEAN_BEP_EQU_10_NUM	ACCUMULATION	INTEGER	S9110: Number of Times 8PSK_MEAN_BEP=10	B1275072530.C127 9182426	Sum	hucsvbh, huctvbh
BEP_8PSK_MEAN_BEP_EQU_11_NUM	ACCUMULATION	INTEGER	S9111: Number of Times 8PSK_MEAN_BEP=11	B1275072530.C127 9182427	Sum	hucsvbh, huctvbh
BEP_8PSK_MEAN_BEP_EQU_12_NUM	ACCUMULATION	INTEGER	S9112: Number of Times 8PSK_MEAN_BEP=12	B1275072530.C127 9182428	Sum	hucsvbh, huctvbh
BEP_8PSK_MEAN_BEP_EQU_13_NUM	ACCUMULATION	INTEGER	S9113: Number of Times 8PSK_MEAN_BEP=13	B1275072530.C127 9182429	Sum	hucsvbh, huctvbh
BEP_8PSK_MEAN_BEP_EQU_14_NUM	ACCUMULATION	INTEGER	S9114: Number of Times 8PSK_MEAN_BEP=14	B1275072530.C127 9182430	Sum	hucsvbh, huctvbh
BEP_8PSK_MEAN_BEP_EQU_15_NUM	ACCUMULATION	INTEGER	S9115: Number of Times 8PSK_MEAN_BEP=15	B1275072530.C127 9182431	Sum	hucsvbh, huctvbh
BEP_8PSK_MEAN_BEP_EQU_16_NUM	ACCUMULATION	INTEGER	S9116: Number of Times 8PSK_MEAN_BEP=16	B1275072530.C127 9182432	Sum	hucsvbh, huctvbh
BEP_8PSK_MEAN_BEP_EQU_17_NUM	ACCUMULATION	INTEGER	S9117: Number of Times	B1275072530.C127 9182433	Sum	hucsvbh, huctvbh

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QU_17_NUM			8PSK_MEAN_ BEP=17			
BEP_8PSK_M EAN_BEP_E QU_18_NUM	ACCUMULA TION	INTEG ER	S9118: Number of Times 8PSK_MEAN_ BEP=18	B1275072530.C127 9182434	Sum	hucsvbh, huctvbh
BEP_8PSK_M EAN_BEP_E QU_19_NUM	ACCUMULA TION	INTEG ER	S9119: Number of Times 8PSK_MEAN_ BEP=19	B1275072530.C127 9182435	Sum	hucsvbh, huctvbh
BEP_8PSK_M EAN_BEP_E QU_2_NUM	ACCUMULA TION	INTEG ER	S9102: Number of Times 8PSK_MEAN_ BEP=2	B1275072530.C127 9182418	Sum	hucsvbh, huctvbh
BEP_8PSK_M EAN_BEP_E QU_20_NUM	ACCUMULA TION	INTEG ER	S9120: Number of Times 8PSK_MEAN_ BEP=20	B1275072530.C127 9182436	Sum	hucsvbh, huctvbh
BEP_8PSK_M EAN_BEP_E QU_21_NUM	ACCUMULA TION	INTEG ER	S9121: Number of Times 8PSK_MEAN_ BEP=21	B1275072530.C127 9182437	Sum	hucsvbh, huctvbh
BEP_8PSK_M EAN_BEP_E QU_22_NUM	ACCUMULA TION	INTEG ER	S9122: Number of Times 8PSK_MEAN_ BEP=22	B1275072530.C127 9182438	Sum	hucsvbh, huctvbh
BEP_8PSK_M EAN_BEP_E QU_23_NUM	ACCUMULA TION	INTEG ER	S9123: Number of Times 8PSK_MEAN_ BEP=23	B1275072530.C127 9182439	Sum	hucsvbh, huctvbh
BEP_8PSK_M EAN_BEP_E QU_24_NUM	ACCUMULA TION	INTEG ER	S9124: Number of Times 8PSK_MEAN_ BEP=24	B1275072530.C127 9182440	Sum	hucsvbh, huctvbh
BEP_8PSK_M EAN_BEP_E QU_25_NUM	ACCUMULA TION	INTEG ER	S9125: Number of Times 8PSK_MEAN_ BEP=25	B1275072530.C127 9182441	Sum	hucsvbh, huctvbh
BEP_8PSK_M EAN_BEP_E	ACCUMULA TION	INTEG ER	S9126: Number of Times	B1275072530.C127 9182442	Sum	hucsvbh, huctvbh

QU_26_NUM			8PSK_MEAN_ BEP=26			
BEP_8PSK_M EAN_BEP_E QU_27_NUM	ACCUMULA TION	INTEG ER	S9127: Number of Times 8PSK_MEAN_ BEP=27	B1275072530.C127 9182443	Sum	hucsvbh, huctvbh
BEP_8PSK_M EAN_BEP_E QU_28_NUM	ACCUMULA TION	INTEG ER	S9128: Number of Times 8PSK_MEAN_ BEP=28	B1275072530.C127 9182444	Sum	hucsvbh, huctvbh
BEP_8PSK_M EAN_BEP_E QU_29_NUM	ACCUMULA TION	INTEG ER	S9129: Number of Times 8PSK_MEAN_ BEP=29	B1275072530.C127 9182445	Sum	hucsvbh, huctvbh
BEP_8PSK_M EAN_BEP_E QU_3_NUM	ACCUMULA TION	INTEG ER	S9103: Number of Times 8PSK_MEAN_ BEP=3	B1275072530.C127 9182419	Sum	hucsvbh, huctvbh
BEP_8PSK_M EAN_BEP_E QU_30_NUM	ACCUMULA TION	INTEG ER	S9130: Number of Times 8PSK_MEAN_ BEP=30	B1275072530.C127 9182446	Sum	hucsvbh, huctvbh
BEP_8PSK_M EAN_BEP_E QU_31_NUM	ACCUMULA TION	INTEG ER	S9131: Number of Times 8PSK_MEAN_ BEP=31	B1275072530.C127 9182447	Sum	hucsvbh, huctvbh
BEP_8PSK_M EAN_BEP_E QU_32_NUM	ACCUMULA TION	INTEG ER	S9132: Number of Times 8PSK_MEAN_ BEP=32	B1275072530.C127 9182448	Sum	hucsvbh, huctvbh
BEP_8PSK_M EAN_BEP_E QU_4_NUM	ACCUMULA TION	INTEG ER	S9104: Number of Times 8PSK_MEAN_ BEP=4	B1275072530.C127 9182420	Sum	hucsvbh, huctvbh
BEP_8PSK_M EAN_BEP_E	ACCUMULA TION	INTEG ER	S9105: Number of Times	B1275072530.C127 9182421	Sum	hucsvbh, huctvbh

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QU_5_NUM			8PSK_MEAN_BEP=5			
BEP_8PSK_MEAN_BEP_EQU_6_NUM	ACCUMULATION	INTEGER	S9106: Number of Times 8PSK_MEAN_BEP=6	B1275072530.C1279182422	Sum	hucsvbh, huctvbh
BEP_8PSK_MEAN_BEP_EQU_7_NUM	ACCUMULATION	INTEGER	S9107: Number of Times 8PSK_MEAN_BEP=7	B1275072530.C1279182423	Sum	hucsvbh, huctvbh
BEP_8PSK_MEAN_BEP_EQU_8_NUM	ACCUMULATION	INTEGER	S9108: Number of Times 8PSK_MEAN_BEP=8	B1275072530.C1279182424	Sum	hucsvbh, huctvbh
BEP_8PSK_MEAN_BEP_EQU_9_NUM	ACCUMULATION	INTEGER	S9109: Number of Times 8PSK_MEAN_BEP=9	B1275072530.C1279182425	Sum	hucsvbh, huctvbh

### 7.9.89 Cell.Huawei.GSM.Mean\_in\_EMR

Mean BER

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
DL_SIG_CVBEP_AVR	INTENSITY	FLOAT	S4809B: Average Downlink BER Probability Variance	B1275071633.C1278285420	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
DL_SIG_CVBEP	ACCUMULATION	INT8	S4808B: Downlink BER Probability Variance	B1275071633.C1278285419	Sum	hucsvbh, huctvbh
DL_SIG_MEANBEP_AVR	INTENSITY	FLOAT	S4733B: Average Downlink BER Probability	B1275071633.C1278285418	Average	Average, hucsvbh, huctvbh, Maximum

						m, Minimum, Sum
DL_SIG_MEANBERP	ACCUMULATION	INT8	S4732B:Downlink BER Probability	B1275071633.C1 278285417	Sum	hucsvbh, huctvbh
DL_SIG_NBRRCVDBLOCKS_AVR	INTENSITY	FLOAT	S4933B:Average Number of Decoded Blocks in the Downlink MR	B1275071633.C1 278285422	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
DL_SIG_NBRRCVDBLOCKS	ACCUMULATION	INT8	S4932B:Number of Decoded Blocks in the Downlink MR	B1275071633.C1 278285421	Sum	hucsvbh, huctvbh

### 7.9.90 Cell.Huawei.GSM.MRs\_upon\_handover\_initiation

MRs upon handover initiation

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
DL_rx_lvl_conc_C_HO_init_olaid_olaid	INTENSITY	INTEGER	S332A:Downlink Receive Level during Concentric Cell Handover Initiation (Overlaid to Underlaid)	B1275071434.C12 78086438	Average	Average, Maximum, Minimum, Sum
DL_rx_lvl_conc_C_HO_init_olaid_olaid	INTENSITY	INTEGER	S332B:Downlink Receive Level during Concentric Cell Handover	B1275071434.C12 78086440	Average	Average, Maximum, Minimum, Sum

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			Initiation (Underlaid to Overlaid)			
DL_RX_LVL_ EDGE_HO_IN IT	ACCUMULA TION	INTEG ER	S336A:Downli nk Receiving Level During Edge Handover Initiation .Obsolete in V900R011.	B1275071434.C12 78086450	Sum	
HO_DL_LEV_ OLULA $\bar{V}$ G	INTENSITY	FLOA T	AS332A:Mean Downlink Receive Level during Concentric Cell Handover Initiation (Overlaid to Underlaid)	B1275071434.C12 78086442	Average	Average, Maximu m, Minimu m, Sum
HO_DL_LEV_ ULOLA $\bar{V}$ G	INTENSITY	FLOA T	AS332B:Mean Downlink Receive Level during Concentric Cell Handover Initiation (Underlaid to Overlaid)	B1275071434.C12 78086444	Average	Average, Maximu m, Minimu m, Sum
HO_TA_OLU LA $\bar{V}$ G	INTENSITY	FLOA T	AS334A:Mean Timing Advance during Concentric Cell Handover Initiation (Overlaid to Underlaid)	B1275071434.C12 78086447	Average	Average, Maximu m, Minimu m, Sum
HO_TA_ULO LA $\bar{V}$ G	INTENSITY	FLOA T	AS334B:Mean Timing Advance during Concentric Cell Handover Initiation (Underlaid to	B1275071434.C12 78086448	Average	Average, Maximu m, Minimu m, Sum

			Overlaid)			
HO_UL_LEV_0	ACCUMULATION	INTEGER	S3300C: Number of MRs during Handover Initiation (Uplink Receive Level Rank = 0)	B1275071434.C1278086417	Sum	
HO_UL_LEV_1	ACCUMULATION	INTEGER	S3301C: Number of MRs during Handover Initiation (Uplink Receive Level Rank = 1)	B1275071434.C1278086418	Sum	
HO_UL_LEV_2	ACCUMULATION	INTEGER	S3302C: Number of MRs during Handover Initiation (Uplink Receive Level Rank = 2)	B1275071434.C1278086419	Sum	
HO_UL_LEV_3	ACCUMULATION	INTEGER	S3303C: Number of MRs during Handover Initiation (Uplink Receive Level Rank = 3)	B1275071434.C1278086420	Sum	
HO_UL_LEV_4	ACCUMULATION	INTEGER	S3304C: Number of MRs during Handover Initiation	B1275071434.C1278086421	Sum	

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			(Uplink Receive Level Rank = 4)			
HO_UL_LEV_5	ACCUMULATION	INTEGER	S3305C: Number of MRs during Handover Initiation (Uplink Receive Level Rank = 5)	B1275071434.C12 78086422	Sum	
HO_UL_LEV_6	ACCUMULATION	INTEGER	S3306C: Number of MRs during Handover Initiation (Uplink Receive Level Rank = 6)	B1275071434.C12 78086423	Sum	
HO_UL_LEV_7	ACCUMULATION	INTEGER	S3307C: Number of MRs during Handover Initiation (Uplink Receive Level Rank = 7)	B1275071434.C12 78086424	Sum	
HO_UL_LEV_AVG	INTENSITY	FLOAT	AS330C: Mean Uplink Receiving Level during Handover Initiation	B1275071434.C12 78086434	Average	Average, Maximum, Minimum, Sum
HO_UL_LEV_OLU_AVG	INTENSITY	FLOAT	AS330A: Mean Uplink Receive Level during Concentric Cell Handover Initiation (Overlaid to Underlaid)	B1275071434.C12 78086441	Average	Average, Maximum, Minimum, Sum
HO_UL_LEV_	INTENSITY	FLOAT	AS330B: Mean	B1275071434.C12	Average	Average,

ULOLAVG		T	Uplink Receive Level during Concentric Cell Handover Initiation (Underlaid to Overlaid)	78086443		Maximum, Minimum, Sum
HO_UL_QTY_0	ACCUMULATION	INTEGER	S3310C: Number of MRs during Handover Initiation (Uplink Receive Quality Rank = 0)	B1275071434.C12 78086425	Sum	
HO_UL_QTY_1	ACCUMULATION	INTEGER	S3311C: Number of MRs during Handover Initiation (Uplink Receive Quality Rank = 1)	B1275071434.C12 78086426	Sum	
HO_UL_QTY_2	ACCUMULATION	INTEGER	S3312C: Number of MRs during Handover Initiation (Uplink Receive Quality Rank = 2)	B1275071434.C12 78086427	Sum	
HO_UL_QTY_3	ACCUMULATION	INTEGER	S3313C: Number of MRs during Handover Initiation	B1275071434.C12 78086428	Sum	

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			(Uplink Receive Quality Rank = 3)			
HO_UL_QTY_4	ACCUMULATION	INTEGER	S3314C: Number of MRs during Handover Initiation (Uplink Receive Quality Rank = 4)	B1275071434.C12 78086429	Sum	
HO_UL_QTY_5	ACCUMULATION	INTEGER	S3315C: Number of MRs during Handover Initiation (Uplink Receive Quality Rank = 5)	B1275071434.C12 78086430	Sum	
HO_UL_QTY_6	ACCUMULATION	INTEGER	S3316C: Number of MRs during Handover Initiation (Uplink Receive Quality Rank = 6)	B1275071434.C12 78086431	Sum	
HO_UL_QTY_7	ACCUMULATION	INTEGER	S3317C: Number of MRs during Handover Initiation (Uplink Receive Quality Rank = 7)	B1275071434.C12 78086432	Sum	
HO_UL_QTY_AVG	INTENSITY	FLOAT	AS331C: Mean Uplink Receive Quality during	B1275071434.C12 78086436	Average	Average, Maximum,

			Handover Initiation			Minimum, Sum
MEAN_DL_RX_LVL_EDGE_HO_INIT	INTENSITY	FLOAT	S336:Mean Downlink Receiving Level during Edge Handover Initiation .Obsolete in V900R011.	B1275071434.C12 78086452	Average	Sum, Minimum, Maximum
MEAN_UL_RX_LVL_EDGE_HO_INIT	INTENSITY	FLOAT	S335:Mean Uplink Receiving Level during Edge Handover Initiation .Obsolete in V900R011.	B1275071434.C12 78086451	Average	Sum, Minimum, Maximum
TA_during_conc_C_HO_init_overlaid_underlaid	ACCUMULATION	INTEGER	S334A:Timing Advance during Concentric Cell Handover Initiation (Overlaid to Underlaid)	B1275071434.C12 78086445	Sum	
TA_during_conc_C_HO_init_underlaid_overlaid	ACCUMULATION	INTEGER	S334B:Timing Advance during Concentric Cell Handover Initiation (Underlaid to Overlaid)	B1275071434.C12 78086446	Sum	
UI_Receiving_lvl_during_HO_init	INTENSITY	INTEGER	S330C:Uplink Receiving Level during Handover Initiation	B1275071434.C12 78086433	Average	Average, Maximum, Minimum, Sum
UL_rx_lvl_conc	INTENSITY	INTEGER	S330A:Uplink	B1275071434.C12	Average	Average,

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c_C_HO_init_olaid_olaid		ER	Receive Level during Concentric Cell Handover Initiation (Overlaid to Underlaid)	78086437		Maximum, Minimum, Sum
UL_rx_lvl_conc_C_HO_init_olaid_olaid	INTENSITY	INTEGER	S330B:Uplink Receive Level during Concentric Cell Handover Initiation (Underlaid to Overlaid)	B1275071434.C1278086439	Average	Average, Maximum, Minimum, Sum
UL_RX_LVL_EDGE_HO_INIT	ACCUMULATION	INTEGER	S335A:Uplink Receiving Level During Edge Handover Initiation .Obsolete in V900R011.	B1275071434.C1278086449	Sum	
Ul_rx_Qual_during_HO_init	ACCUMULATION	INTEGER	S331C:Uplink Receive Quality during Handover Initiation	B1275071434.C1278086435	Sum	

### 7.9.91 Cell.Huawei.GSM.MS\_capability\_per\_cell

Measurement of MS Capability per Cell.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CALL_ORIG_TERM_MSS_A5_1	ACCUMULATION	INT8	A03605:Number of Calls Originated or Terminated by MSs Supporting A5/1	B1275071531.C1278183421	Sum	
CALL_ORIG_T	ACCUMULATION	INT8	A03606:Numbe	B1275071531.C127	Sum	

ERM_MSS_A5_2	TION		r of Calls Originated or Terminated by MSs Supporting A5/2	8183422		
CALL_ORIG_TERM_MSS_A5_3	ACCUMULATION	INT8	A03607: Number of Calls Originated or Terminated by MSs Supporting A5/3	B1275071531.C127 8183423	Sum	
CALL_ORIG_TERM_MSS_A5_4	ACCUMULATION	INT8	A03608: Number of Calls Originated or Terminated by MSs Supporting A5/4	B1275071531.C127 8183424	Sum	
CALL_ORIG_TERM_MSS_A5_5	ACCUMULATION	INT8	A03609: Number of Calls Originated or Terminated by MSs Supporting A5/5	B1275071531.C127 8183425	Sum	
CALL_ORIG_TERM_MSS_A5_6	ACCUMULATION	INT8	A03610: Number of Calls Originated or Terminated by MSs Supporting A5/6	B1275071531.C127 8183426	Sum	
CALL_ORIG_TERM_MSS_A5_7	ACCUMULATION	INT8	A03611: Number of Calls Originated or Terminated by MSs Supporting A5/7	B1275071531.C127 8183427	Sum	
CALL_ORIG_TERM_MSS_CD MA2000	ACCUMULATION	INT8	A03625: Number of Calls Originated or	B1275071531.C127 8183441	Sum	

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			Terminated by MSs Supporting CDMA2000			
CALL_ORIG_TERM_MSS_DCS1800	ACCUMULATION	INT8	A03618: Number of Calls Originated or Terminated by MSs Supporting DCS1800 Band	B1275071531.C1278183434	Sum	
CALL_ORIG_TERM_MSS_DTM	ACCUMULATION	INT8	A03630: Number of Calls Originated or Terminated by MSs Supporting DTM	B1275071531.C1278183446	Sum	
CALL_ORIG_TERM_MSS_ECS	ACCUMULATION	INT8	A03604: Number of Calls Originated or Terminated by MSs Supporting Early Classmark Sending	B1275071531.C1278183420	Sum	
CALL_ORIG_TERM_MSS_EGSM	ACCUMULATION	INT8	A03616: Number of Calls Originated or Terminated by MSs Supporting E-GSM Band	B1275071531.C1278183432	Sum	
CALL_ORIG_TERM_MSS_ENHC_DTM	ACCUMULATION	INT8	A03631: Number of Calls Originated or Terminated by MSs Supporting Enhanced DTMCS Establishment and Release	B1275071531.C1278183447	Sum	
CALL_ORIG_TERM_MSS_FD	ACCUMULATION	INT8	A03624: Number of Calls Originated or Terminated by MSs Supporting	B1275071531.C1278183440	Sum	

			FDD			
CALL_ORIG_TERM_MSS_GERAN_PKG1	ACCUMULATION	INT8	A03626: Number of Calls Originated or Terminated by MSs Supporting GERAN Feature Package 1	B1275071531.C127 8183442	Sum	
CALL_ORIG_TERM_MSS_GERAN_PKG2	ACCUMULATION	INT8	A03627: Number of Calls Originated or Terminated by MSs Supporting GERAN Feature Package 2	B1275071531.C127 8183443	Sum	
CALL_ORIG_TERM_MSS_GSM450	ACCUMULATION	INT8	A03622: Number of Calls Originated or Terminated by MSs Supporting GSM450 Band	B1275071531.C127 8183438	Sum	
CALL_ORIG_TERM_MSS_GSM480	ACCUMULATION	INT8	A03621: Number of Calls Originated or Terminated by MSs Supporting GSM480 Band	B1275071531.C127 8183437	Sum	
CALL_ORIG_TERM_MSS_GSM850	ACCUMULATION	INT8	A03620: Number of Calls Originated or Terminated by MSs Supporting GSM850 Band	B1275071531.C127 8183436	Sum	
CALL_ORIG_TERM_MSS_PC_S1900	ACCUMULATION	INT8	A03619: Number of Calls Originated or	B1275071531.C127 8183435	Sum	

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			Terminated by MSs Supporting PCS1900 Band			
CALL_ORIG_TERM_MSS_PGSM	ACCUMULATION	INT8	A03615: Number of Calls Originated or Terminated by MSs Supporting P-GSM Band	B1275071531.C1278183431	Sum	
CALL_ORIG_TERM_MSS_PHASE1	ACCUMULATION	INT8	A03601: Number of Calls Originated or Terminated by MSs Supporting Phase 1	B1275071531.C1278183417	Sum	
CALL_ORIG_TERM_MSS_PHASE2	ACCUMULATION	INT8	A03602: Number of Calls Originated or Terminated by MSs Supporting Phase 2	B1275071531.C1278183418	Sum	
CALL_ORIG_TERM_MSS_R99_LATERV	ACCUMULATION	INT8	A03603: Number of Calls Originated or Terminated by MSs Supporting R99 or Later Versions	B1275071531.C1278183419	Sum	
CALL_ORIG_TERM_MSS_REPEATED_ACCH	ACCUMULATION	INT8	A03629: Number of Calls Originated or Terminated by MSs Supporting Repeated ACCH	B1275071531.C1278183445	Sum	
CALL_ORIG_TERM_MSS_RGSM	ACCUMULATION	INT8	A03617: Number of Calls Originated or Terminated by MSs Supporting R-GSM Band	B1275071531.C1278183433	Sum	

CALL_ORIG_T ERM_MSS_SA IC	ACCUMULA TION	INT8	A03628:Numbe r of Calls Originated or Terminated by MSs Supporting SAIC	B1275071531.C127 8183444	Sum	
CALL_ORIG_T ERM_MSS_TD D	ACCUMULA TION	INT8	A03623:Numbe r of Calls Originated or Terminated by MSs Supporting TDD	B1275071531.C127 8183439	Sum	
CALL_ORIG_T ERM_MSS_TE RM_SMS	ACCUMULA TION	INT8	A03612:Numbe r of Calls Originated or Terminated by MSs Supporting Mobile Terminated Point-to-Point SMS	B1275071531.C127 8183428	Sum	
CALL_ORIG_T ERM_MSS_VB S_NOTIFY	ACCUMULA TION	INT8	A03613:Numbe r of Calls Originated or Terminated by MSs Supporting VBS and Notifications Wanted	B1275071531.C127 8183429	Sum	
CALL_ORIG_T ERM_MSS_VG CS_NOTIFY	ACCUMULA TION	INT8	A03614:Numbe r of Calls Originated or Terminated by MSs Supporting VGCS and Notifications Wanted	B1275071531.C127 8183430	Sum	
TOT_MS_ORI	ACCUMULA	INT8	Total Number	B1275071531.C127	Sum	

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G_TERM_CALL	TION		of Calls Originated or Terminated by MSs	8183417 + C1278183418 + C1278183419 + C1278183420 + C1278183421 + C1278183422 + C1278183423 + C1278183424 + C1278183425 + C1278183426 + C1278183427 + C1278183428 + C1278183429 + C1278183430 + C1278183431 + C1278183432 + C1278183433 + C1278183434 + C1278183435 + C1278183436 + C1278183437 + C1278183438 + C1278183439 + C1278183440 + C1278183441 + C1278183442 + C1278183443 + C1278183444 + C1278183445 + C1278183446 + C1278183447		
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### 7.9.92 Cell.Huawei.GSM.MS\_location\_service

Related counters in MS Location Service procedure.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
FAIL_ATT_CONG	ACCUMULATION	INT8	L3502H: Number of Failed MS Location Attempts (Congestion)	B1290793541.C 1282412065	Sum	

FAIL_ATT_DEVICE_UN SUPPORT	ACCUMULATION	INT8	L3502F: Number of Failed MS Location Attempts (Device Not Supported)	B1290793541.C 1282412063	Sum	
FAIL_ATT_INTERB_HO	ACCUMULATION	INT8	L3502G: Number of Failed MS Location Attempts (Inter-BSC Handover)	B1290793541.C 1282412064	Sum	
FAIL_ATT_INVALIDMSG	ACCUMULATION	INT8	L3502A: Number of Failed MS Location Attempts (Invalid Message)	B1290793541.C 1282412058	Sum	
FAIL_ATT_LOCATION_CANCELLATION	ACCUMULATION	INT8	L3502E: Number of Failed MS Location Attempts (Location Cancellation)	B1290793541.C 1282412062	Sum	
FAIL_ATT_OTHERS	ACCUMULATION	INT8	L3502I: Number of Failed MS Location Attempts (Others)	B1290793541.C 1282412066	Sum	
FAIL_ATT_TARGET_MS_UNREACHABLE	ACCUMULATION	INT8	L3502D: Number of Failed MS Location Attempts (Target MS Unreachable)	B1290793541.C 1282412061	Sum	
FAIL_ATT_TIMEX	ACCUMULATION	INT8	L3502B: Number of Failed MS Location	B1290793541.C 1282412059	Sum	

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			Attempts (Timer Expiry)			
FAIL_ATT_UNSUP PORT_LOC_METH OD	ACCUMULA TION	INT8	L3502C:Num ber of Failed MS Location Attempts (Unsupported Location Method)	B1290793541.C 1282412060	Sum	
FAIL_ATT	ACCUMULA TION	INT8	CL3502:Num ber of Failed MS Location Attempts	B1290793541.C 1282412057	Sum	
Failed_MS_Loc_Att _Congestion	ACCUMULA TION	INTEG ER	L3502H:Num ber of Failed MS Location Attempts (Congestion)	B1275071533.C 1278185427	Sum	
Failed_MS_Loc_Att _Inter_BSC_HO	ACCUMULA TION	INTEG ER	L3502G:Num ber of Failed MS Location Attempts (Inter-BSC Handover)	B1275071533.C 1278185426	Sum	
Failed_MS_Loc_Att _Invalid_Msg	ACCUMULA TION	INTEG ER	L3502A:Num ber of Failed MS Location Attempts (Invalid Message)	B1275071533.C 1278185420	Sum	
Failed_MS_Loc_Att _Loc_Cancel	ACCUMULA TION	INTEG ER	L3502E:Num ber of Failed MS Location Attempts (Location Cancellation)	B1275071533.C 1278185424	Sum	
Failed_MS_Loc_Att _Others	ACCUMULA TION	INTEG ER	L3502I:Numb er of Failed MS Location Attempts	B1275071533.C 1278185428	Sum	

			(Others)			
Failed_MS_Loc_Att_Timer_Expiry	ACCUMULATION	INTEGER	L3502B: Number of Failed MS Location Attempts (Timer Expiry)	B1275071533.C 1278185421	Sum	
Failed_MS_Loc_Att	ACCUMULATION	INTEGER	CL3502: Number of Failed MS Location Attempts	B1275071533.C 1278185419	Sum	
Failed_MS_Loc_Att_Device_Not_Supp	ACCUMULATION	INTEGER	L3502F: Number of Failed MS Location Attempts (Device Not Supported)	B1275071533.C 1278185425	Sum	
Failed_MS_Loc_Att_Unsupp_Loc_Mthd	ACCUMULATION	INTEGER	L3502C: Number of Failed MS Location Attempts (Unsupported Location Method)	B1275071533.C 1278185422	Sum	
Failed_MS_Loc_Att_Target_MS_Unreach	ACCUMULATION	INTEGER	L3502D: Number of Failed MS Location Attempts (Target MS Unreachable)	B1275071533.C 1278185423	Sum	
MS_Loc_Requests	ACCUMULATION	INTEGER	L3500: Number of MS Location Requests	B1275071533.C 1278185417	Sum	
MS_LOC_RQ	ACCUMULATION	INT8	L3500: Number of MS Location	B1290793541.C 1282412055	Sum	

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			Requests			
MS_RELOC_ATT	ACCUMULATION	INT8	L3503: Number of MS Relocation Attempts	B1290793541.C 1282412067	Sum	
MS_Relocation_Att	ACCUMULATION	INTEGER	L3503: Number of MS Relocation Attempts	B1275071533.C 1278185429	Sum	
SUCC_ATT	ACCUMULATION	INT8	CL3501: Number of Successful MS Location Attempts	B1290793541.C 1282412056	Sum	
Succ_MS_Loc_Att	ACCUMULATION	INTEGER	CL3501: Number of Successful MS Location Attempts	B1275071533.C 1278185418	Sum	

### 7.9.93 Cell.Huawei.GSM.Number\_of\_MRs

Number of MRs on signaling channels and TCHs

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CS3026	INTENSITY	FLOAT	CS3026: Obsolete in V900R008	B1275071617.C1 278269450	Average	Average, Maximum, Minimum, Sum
DL_MEAS_REPORTS	ACCUMULATION	INT8	S373: Number of Downlink meas Reports	B1275071617.C1 278269453	Sum	
FR_EMR_NUM	ACCUMULATION	INT8	CS3027: Number of EMRs on the TCHF	B1275071617.C1 278269451	Sum	
HR_EMR_NUM	ACCUMULATION	INT8	CS3028: Number of EMRs on the TCHH	B1275071617.C1 278269452	Sum	

Meas_Reports_WithoutDLMeasInfo	ACCUMULATION	INTEGER	CS3032: Number of Measurement Reports Without DL Measurement Information	B1275071617.C1 282429839	Sum	
MRS_CELL_CVR	ACCUMULATION	INT8	CS3030: Total Number of MRs (Cell Coverage)	B1275071617.C1 278269456	Sum	
MRS_EXCESSIVE_CVR	ACCUMULATION	INT8	CS3029B: Number of MRs (Excessive Coverage)	B1275071617.C1 278269455	Sum	
MRS_SERVING_CELLS	ACCUMULATION	INT8	S3013: MRs of Serving Cells	B1275071617.C1 278269459	Sum	
MRs_SMS_SDCCH	ACCUMULATION	INTEGER	CS3020: MRs on SMS (SDCCH)	B1275071617.C1 278269444	Sum	
MRs_SPCH_SVC_SDCCH	ACCUMULATION	INTEGER	CS3019: MRs on Speech Service (SDCCH)	B1275071617.C1 278269443	Sum	
MRs_UNK_SVC_SDCCH	ACCUMULATION	INTEGER	CS3022: MRs on Unknown Service (SDCCH)	B1275071617.C1 278269446	Sum	
MRs_USSD_SDCCH	ACCUMULATION	INTEGER	CS3021: MRs on USSD (SDCCH)	B1275071617.C1 278269445	Sum	
MRS_WEAK_CVR	ACCUMULATION	INT8	CS3029A: Number of MRs (Weak Coverage)	B1275071617.C1 278269454	Sum	
RATE_MRS_EX	INTENSITY	FLOA	CS3031B: Rate	B1275071617.C1	Average	Sum,

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CESSIVE_CVR		T	of MRs (Excessive Coverage)	278269458		Minimum, Maximum
RATE_MRS_WEAK_CVR	INTENSITY	FLOAT	CS3031A:Rate of MRs (Weak Coverage)	B1275071617.C1 278269457	Average	Sum, Minimum, Maximum
SIG_CH_MR_NUM_FR_1800	ACCUMULATION	INTEGER	S3017B:MRs on Signaling Channels (TCHF) (M1800/1900 Cell)	B1275071617.C1 278269420	Sum	
SIG_CH_MR_NUM_FR_900	ACCUMULATION	INTEGER	S3017A:MRs on Signaling Channels (TCHF) (M900/850 Cell)	B1275071617.C1 278269419	Sum	
SIG_CH_MR_NUM_FR	ACCUMULATION	INTEGER	CS3017:MRs on Signaling Channels (TCHF)	B1275071617.C1 278269441	Sum	
SIG_CH_MR_NUM_HR_1800	ACCUMULATION	INTEGER	S3018B:MRs on Signaling Channels (TCHH) (M1800/1900 Cell)	B1275071617.C1 278269422	Sum	
SIG_CH_MR_NUM_HR_900	ACCUMULATION	INTEGER	S3018A:MRs on Signaling Channels (TCHH) (M900/850 Cell)	B1275071617.C1 278269421	Sum	
SIG_CH_MR_NUM_HR	ACCUMULATION	INTEGER	CS3018:MRs on Signaling Channels (TCHH)	B1275071617.C1 278269442	Sum	

SIG_CH_MR_NUM_OLCELL	ACCUMULATION	INTEGER	S3011:MRs on Signaling Channels (Overlaid Subcell)	B1275071617.C1 278269428	Sum	
SIG_CH_MR_NUM_SD_1800	ACCUMULATION	INTEGER	S3010B:MRs on Signaling Channels (SDCCH) (M1800/1900 Cell)	B1275071617.C1 278269418	Sum	
SIG_CH_MR_NUM_SD_900	ACCUMULATION	INTEGER	S3010A:MRs on Signaling Channels (SDCCH) (M900/850 Cell)	B1275071617.C1 278269417	Sum	
SIG_CH_MR_NUM_SD	ACCUMULATION	INTEGER	CS3010:MRs on Signaling Channels (SDCCH)	B1275071617.C1 278269440	Sum	
SIG_CH_MR_NUM_ULCELL	ACCUMULATION	INTEGER	S3012:MRs on Signaling Channels (Underlaid Subcell)	B1275071617.C1 278269427	Sum	
SIG_CH_MR_NUM	ACCUMULATION	INTEGER	CS301:MRs on Signaling Channels	B1275071617.C1 278269439	Sum	
TRAF_CH_MR_NUM_FR_1800	ACCUMULATION	INTEGER	S3007B:MRs on TCHs (TCHF) (M1800/1900 Cell)	B1275071617.C1 278269424	Sum	
TRAF_CH_MR_NUM_FR_900	ACCUMULATION	INTEGER	S3007A:MRs on TCHs (TCHF)	B1275071617.C1 278269423	Sum	

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			(M900/850 Cell)			
TRAF_CH_MR_NUM_FR	ACCUMULATION	INTEGER	CS3007:MRs on TCHs (TCHF)	B1275071617.C1 278269437	Sum	
TRAF_CH_MR_NUM_HR_1800	ACCUMULATION	INTEGER	S3008B:MRs on TCHs (TCHH) (M1800/1900 Cell)	B1275071617.C1 278269426	Sum	
TRAF_CH_MR_NUM_HR_900	ACCUMULATION	INTEGER	S3008A:MRs on TCHs (TCHH) (M900/850 Cell)	B1275071617.C1 278269425	Sum	
TRAF_CH_MR_NUM_HR	ACCUMULATION	INTEGER	CS3008:MRs on TCHs (TCHH)	B1275071617.C1 278269438	Sum	
TRAF_CH_MR_NUM_OLCELL	ACCUMULATION	INTEGER	S3001:MRs on TCHs (Overlaid Subcell)	B1275071617.C1 278269430	Sum	
TRAF_CH_MR_NUM_ULCELL	ACCUMULATION	INTEGER	S3002:MRs on TCHs (Underlaid Subcell)	B1275071617.C1 278269429	Sum	
TRAF_CH_MR_NUM	ACCUMULATION	INTEGER	CS300:MRs on TCHs	B1275071617.C1 278269436	Sum	
TRAF_CH_TRAF_OLCELL	INTENSITY	FLOAT	CR3558:Traffic Volume on TCHs (Overlaid Subcell)	B1275071617.C1 278269432	Average	Average, Maximum, Minimum, Sum
TRAF_CH_TRAF_SIG_SDCCH	INTENSITY	FLOAT	TS3010:Traffic Volume of Signaling Channels (SDCCH). Obsolete in V900R003	B1275071617.C1 278269433	Average	Average, Maximum, Minimum, Sum

TRAF_CH_TRA F_SIG_TCH	INTENSITY	FLOA T	TS3019:Traffi c Volume of Signaling Channels (TCH). Obsolete in V900R003	B1275071617.C1 278269434	Average	Average, Maximu m, Minimu m, Sum
TRAF_CH_TRA F_ULCELL	INTENSITY	FLOA T	CR3557:Traffi c Volume on TCHs (Underlaid Subcell)	B1275071617.C1 278269431	Average	Average, Maximu m, Minimu m, Sum
TRAF_CH_TRA F	INTENSITY	FLOA T	CR355A:Traffi c Volume of TCHs	B1275071617.C1 278269435	Average	Average, Maximu m, Minimu m, Sum
TRAF_VOL_SM S_SDCCH	INTENSITY	FLOA T	CS3024:Traffi c Volume of Short Message Service on SDCCH. Obsolete in V900R008	B1275071617.C1 278269448	Average	Average, Maximu m, Minimu m, Sum
TRAF_VOL_SP CH_SDCCH	INTENSITY	FLOA T	CS3023:Traffi c Volume of Speech Service on SDCCH. Obsolete in V900R008	B1275071617.C1 278269447	Average	Average, Maximu m, Minimu m, Sum
TRAF_VOL_US SD_SDCCH	INTENSITY	FLOA T	CS3025:Traffi c Volume of USSD Service on SDCCH. Obsolete in V900R008	B1275071617.C1 278269449	Average	Average, Maximu m, Minimu m, Sum

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### 7.9.94 Cell.Huawei.GSM.Outgo\_ext\_intercell\_HO\_failures

Outgoing external intercell handover failures

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
DIFFERENT_S IG_POINT	ACCUMULATION	INT8	H3323:Failed Outgoing External Inter- Cell Handovers (Different Signaling Points)	B1275071429.C12 78081543	Sum	hucsvbh, huctvbh
Ext_Inter_HOs_ EDGE_cov	ACCUMULATION	INTEGER	H3322K:Failed Outgoing External Inter- Cell Handovers (EDGE cov)	B1275071429.C12 78081487	Sum	hucsvbh, huctvbh
FAIL_HO_SDC CH_BETTER_ CELL_DR	ACCUMULATION	INT8	H3320N:Numb er of Failed Outgoing External Inter- Cell Handovers (SDCCH) (Better Cell Directed Retry)	B1275071429.C12 82412175	Sum	hucsvbh, huctvbh
FAIL_HO_TAR GET_TRAF_L OAD_HI	ACCUMULATION	INTEGER	H332N:Failed Outgoing External Inter- Cell Handovers(targ et cell traffic load higher) .Obsolete in V900R011.	B1275071429.C12 78081579	Sum	hucsvbh, huctvbh
Failed_Out_Ext _InterCellHO	ACCUMULATION	INTEGER	CH3329A:Num ber of Failed Outgoing External Inter- Cell Handovers(TC H)	B1275071429.C12 82448085	Sum	

HO_FAIL_BETTER_CELL	ACCUMULATION	INT8	H3322F:Failed Outgoing External Inter-Cell Handovers (Better Cell)	B1275071429.C12 78081482	Sum	hucsvbh, huctvbh
HO_FAIL_BSC_LOOP	ACCUMULATION	INT8	H332Aa:Number of Inter-BSC Outgoing Cell Handover Failures During BSC Loopback	B1275071429.C12 78081570	Sum	hucsvbh, huctvbh
HO_FAIL_BTS_LOOP	ACCUMULATION	INT8	H332Ab:Number of Inter-BSC Outgoing Cell Handover Failures During BTS Loopback	B1275071429.C12 78081571	Sum	hucsvbh, huctvbh
HO_FAIL_DL_QLTY	ACCUMULATION	INT8	H3322B:Failed Outgoing External Inter-Cell Handovers (Downlink Quality)	B1275071429.C12 78081478	Sum	hucsvbh, huctvbh
HO_FAIL_DL_RXL	ACCUMULATION	INT8	H3322D:Failed Outgoing External Inter-Cell Handovers (Downlink Strength)	B1275071429.C12 78081480	Sum	hucsvbh, huctvbh
HO_FAIL_DR_1800_1800	ACCUMULATION	INT8	H3321X:Failed Outgoing External Inter-Cell Handovers (Directed Retry) (1800/1900-1800/1900)	B1275071429.C12 78081450	Sum	hucsvbh, huctvbh
HO_FAIL_DR_	ACCUMULATION	INT8	H3321Z:Failed	B1275071429.C12	Sum	hucsvbh,

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1800_900	TION		Outgoing External Inter-Cell Handovers (Directed Retry) (1800/1900-900/850)	78081452		huctvbh
HO_FAIL_DR_900_1800	ACCUMULATION	INT8	H3321Y:Failed Outgoing External Inter-Cell Handovers (Directed Retry) (900/850-1800/1900)	B1275071429.C12 78081451	Sum	hucsvbh, huctvbh
HO_FAIL_DR_900_900	ACCUMULATION	INT8	H3321W:Failed Outgoing External Inter-Cell Handovers (Directed Retry) (900/850-900/850)	B1275071429.C12 78081449	Sum	hucsvbh, huctvbh
HO_FAIL_LOAD	ACCUMULATION	INT8	H3322G:Failed Outgoing External Inter-Cell Handovers (Load)	B1275071429.C12 78081483	Sum	hucsvbh, huctvbh
HO_FAIL_MSC_CLR_OM_INTERV	ACCUMULATION	INT8	H332Hc:Failed Outgoing External Inter-Cell Handovers (Clear Commands Sent By MSC) (OM Intervention)	B1275071429.C12 78081522	Sum	hucsvbh, huctvbh
HO_FAIL_MSC_CLR_OTHER	ACCUMULATION	INT8	H332Hh:Failed Outgoing External Inter-Cell Handovers (Clear Commands	B1275071429.C12 78081527	Sum	hucsvbh, huctvbh

			Sent By MSC) (Other Causes)			
HO_FAIL_MS C_INTERV	ACCUMULA TION	INT8	H3322I:Failed Outgoing External Inter- Cell Handovers (MSC Intervention)	B1275071429.C12 78081485	Sum	hucsvbh, huctvbh
HO_FAIL_OM _INTERV	ACCUMULA TION	INT8	H3322J:Failed Outgoing External Inter- Cell Handovers (OM Intervention)	B1275071429.C12 78081486	Sum	hucsvbh, huctvbh
HO_FAIL_OTH ER	ACCUMULA TION	INT8	H3322L:Failed Outgoing External Inter- Cell Handovers (Other Causes)	B1275071429.C12 78081488	Sum	hucsvbh, huctvbh
HO_FAIL_RAP ID_LEV_DROP	ACCUMULA TION	INT8	H3322H:Failed Outgoing External Inter- Cell Handovers (Rapid Level Drop)	B1275071429.C12 78081484	Sum	hucsvbh, huctvbh
HO_FAIL_T7_ EXP_DR	ACCUMULA TION	INT8	H3321L:Failed Outgoing External Inter- Cell Handovers (T7 Expired) (Directed Retry)	B1275071429.C12 78081534	Sum	hucsvbh, huctvbh
HO_FAIL_T7_ EXP_TCHF_SI G	ACCUMULA TION	INT8	H3327Lb:Faile d Outgoing External Inter- Cell Handovers (T7 Expiry) (TCHF)	B1275071429.C12 78081530	Sum	hucsvbh, huctvbh

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			(Signaling Channel)			
HO_FAIL_T7_EXP_TCHH_SIG	ACCUMULATION	INT8	H3328Lb:Failed Outgoing External Inter-Cell Handovers (T7 Expiry) (TCHH) (Signaling Channel)	B1275071429.C1278081531	Sum	hucsvbh, huctvbh
HO_FAIL_T8_EXP_DR	ACCUMULATION	INT8	H3321C:Failed Outgoing External Inter-Cell Handovers (T8 Expired) (Directed Retry)	B1275071429.C1278081540	Sum	hucsvbh, huctvbh
HO_FAIL_T8_EXP_TCHF_SIG	ACCUMULATION	INT8	H3327Cb:Failed Outgoing External Inter-Cell Handovers (T8 Expiry) (TCHF) (Signaling Channel)	B1275071429.C1278081536	Sum	hucsvbh, huctvbh
HO_FAIL_T8_EXP_TCHH_SIG	ACCUMULATION	INT8	H3328Cb:Failed Outgoing External Inter-Cell Handovers (T8 Expiry) (TCHH) (Signaling Channel)	B1275071429.C1278081537	Sum	hucsvbh, huctvbh
HO_FAIL_TA	ACCUMULATION	INT8	H3322E:Failed Outgoing External Inter-Cell Handovers (Timing Advance)	B1275071429.C1278081481	Sum	hucsvbh, huctvbh
HO_FAIL_UL_QLTY	ACCUMULATION	INT8	H3322A:Failed Outgoing External Inter-	B1275071429.C1278081477	Sum	hucsvbh, huctvbh

			Cell Handovers (Uplink Quality)			
HO_FAIL_UL_RXL	ACCUMULATION	INT8	H3322C:Failed Outgoing External Inter-Cell Handovers (Uplink Strength)	B1275071429.C12 78081479	Sum	hucsvbh, huctvbh
HO_REQ_REJ_BSS_NOT_EQUIP	ACCUMULATION	INT8	H332Ke:Failed Outgoing External Inter-Cell Handovers (Handover Request Rejected) (BSS not Equipped)	B1275071429.C12 78081493	Sum	hucsvbh, huctvbh
HO_REQ_REJ_CIPH_ALG_NOT_SUPPORT	ACCUMULATION	INT8	H332Kj:Failed Outgoing External Inter-Cell Handovers (Handover Request Rejected) (Ciphering Algorithm not Supported)	B1275071429.C12 78081498	Sum	hucsvbh, huctvbh
HO_REQ_REJ_CIRCUIT_POOL_MISMATCH	ACCUMULATION	INT8	H332Kh:Failed Outgoing External Inter-Cell Handovers (Handover Request Rejected) (Circuit Pool Mismatch)	B1275071429.C12 78081496	Sum	hucsvbh, huctvbh
HO_REQ_REJ_EQUIP_FAIL	ACCUMULATION	INT8	H332Kb:Failed Outgoing	B1275071429.C12 78081490	Sum	hucsvbh, huctvbh

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			External Inter-Cell Handovers (Handover Request Rejected) (Equipment Failure)			
HO_REQ_REJ_INVALID_CELL	ACCUMULATION	INT8	H332Kf:Failed Outgoing External Inter-Cell Handovers (Handover Request Rejected) (Invalid Cell)	B1275071429.C12 78081494	Sum	hucsvbh, huctvbh
HO_REQ_REJ_INVALID_MESSAGE	ACCUMULATION	INT8	H332Kl:Failed Outgoing External Inter-Cell Handovers (Handover Request Rejected) (Invalid Message)	B1275071429.C12 78081500	Sum	hucsvbh, huctvbh
HO_REQ_REJ_NO_RADIO_RESOURCES	ACCUMULATION	INT8	H332Kc:Failed Outgoing External Inter-Cell Handovers (Handover Request Rejected) (No Radio Resource Available)	B1275071429.C12 78081491	Sum	hucsvbh, huctvbh
HO_REQ_REJ_OM_INTERVENTION	ACCUMULATION	INT8	H332Ka:Failed Outgoing External Inter-Cell Handovers (Handover Request Rejected) (OM Intervention)	B1275071429.C12 78081489	Sum	hucsvbh, huctvbh
HO_REQ_REJ_OTHER	ACCUMULATION	INT8	H332Kn:Failed Outgoing	B1275071429.C12 78081502	Sum	hucsvbh, huctvbh

			External Inter-Cell Handovers (Handover Request Rejected) (Other Causes)			
HO_REQ_REJ_PROTOCOL_ERROR	ACCUMULATION	INT8	H332Km:Failed Outgoing External Inter-Cell Handovers (Handover Request Rejected) (Protocol Error between BSS and MSC)	B1275071429.C12 78081501	Sum	hucsvbh, huctvbh
HO_REQ_REJ_REQ_NO_SV	ACCUMULATION	INT8	H332Ki:Failed Outgoing External Inter-Cell Handovers (Handover Request Rejected) (Requested Speech Version Unavailable)	B1275071429.C12 78081497	Sum	hucsvbh, huctvbh
HO_REQ_REJ_REQ_NO_TERMINRES	ACCUMULATION	INT8	H332Kd:Failed Outgoing External Inter-Cell Handovers (Handover Request Rejected) (Requested Terrestrial Resource Unavailable)	B1275071429.C12 78081492	Sum	hucsvbh, huctvbh
HO_REQ_REJ_REQ_TRANS	ACCUMULATION	INT8	H332Kg:Failed Outgoing	B1275071429.C12 78081495	Sum	hucsvbh, huctvbh

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NO_ADAPT			External Inter-Cell Handovers (Handover Request Rejected) (Requested Transcoding/Rate Adaption Unavailable)			
HO_REQ_REJ_TER_CIR_ALL_OC	ACCUMULATION	INT8	H332Kk:Failed Outgoing External Inter-Cell Handovers (Handover Request Rejected) (Terrestrial circuit already allocated)	B1275071429.C12 78081499	Sum	hucsvbh, huctvbh
MSC_CLR_A_INTF_FAIL	ACCUMULATION	INT8	H332G:Failed Outgoing External Inter-Cell Handovers (A Interface Failure)	B1275071429.C12 78081528	Sum	hucsvbh, huctvbh
MSC_CLR_EQUIP_FAIL	ACCUMULATION	INT8	H332Hd:Failed Outgoing External Inter-Cell Handovers (Clear Commands Sent By MSC) (Equipment Failure)	B1275071429.C12 78081523	Sum	hucsvbh, huctvbh
MSC_CLR_INVALID_MSG	ACCUMULATION	INT8	H332Hf:Failed Outgoing External Inter-Cell Handovers (Clear Commands Sent By MSC) (Invalid Message)	B1275071429.C12 78081525	Sum	hucsvbh, huctvbh

MSC_CLR_PR EEMPTION	ACCUMULA TION	INT8	H332He:Failed Outgoing External Inter- Cell Handovers (Clear Commands Sent By MSC) (Preemption)	B1275071429.C12 78081524	Sum	hucsvbh, huctvbh
MSC_CLR_PR OTOCOL_ERR	ACCUMULA TION	INT8	H332Hg:Failed Outgoing External Inter- Cell Handovers (Clear Commands Sent By MSC) (Protocol Error between BSS and MSC)	B1275071429.C12 78081526	Sum	hucsvbh, huctvbh
MSC_CLR_RA DIO_INTF_FAI L	ACCUMULA TION	INT8	H332Hb:Failed Outgoing External Inter- Cell Handovers (Clear Commands Sent By MSC) (Radio Interface Failure)	B1275071429.C12 78081521	Sum	hucsvbh, huctvbh
MSC_CLR_RA DIO_INTF_MS G_FAIL	ACCUMULA TION	INT8	H332Ha:Failed Outgoing External Inter- Cell Handovers (Clear Commands Sent By MSC) (Radio Interface Message Failure)	B1275071429.C12 78081520	Sum	hucsvbh, huctvbh

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RECON_SUCC _MS_RPT_AB NRM_REL_NO _ACT	ACCUMULA TION	INT8	H332Dd:Failed Outgoing External Inter- Cell Handovers (Reconnection to Old Channels) (Abnormal Release, No Activity on the Radio Path)	B1275071429.C12 78081506	Sum	hucsvbh, huctvbh
RECON_SUCC _MS_RPT_MS G_NOT_COMP	ACCUMULA TION	INT8	H332Dm:Failed Outgoing External Inter- Cell Handovers (Reconnection to Old Channels) (Message Type Not Compatible with Protocol State)	B1275071429.C12 78081515	Sum	hucsvbh, huctvbh
RECON_SUCC _MS_RPT_MS G_TYP_NEXIS T	ACCUMULA TION	INT8	H332Dl:Failed Outgoing External Inter- Cell Handovers (Reconnection to Old Channels) (Message Type Non-existent or Not Implemented)	B1275071429.C12 78081514	Sum	hucsvbh, huctvbh
RECONN_SUC C_MS_RPT_A BNORM_REL_ CHN	ACCUMULA TION	INT8	H332Db:Failed Outgoing External Inter- Cell Handovers (Reconnection to Old Channels) (Abnormal Release, Channel Unacceptable)	B1275071429.C12 78081504	Sum	hucsvbh, huctvbh

RECONN_SUC C_MS_RPT_A BNORM_REL_ EXP	ACCUMULA TION	INT8	H332Dc:Failed Outgoing External Inter- Cell Handovers (Reconnection to Old Channels) (Abnormal Release, Timer Expired)	B1275071429.C12 78081505	Sum	hucsvbh, huctvbh
RECONN_SUC C_MS_RPT_A BNORM_REL_ UNS	ACCUMULA TION	INT8	H332Da:Failed Outgoing External Inter- Cell Handovers (Reconnection to Old Channels) (Abnormal Release, Unspecified)	B1275071429.C12 78081503	Sum	hucsvbh, huctvbh
RECONN_SUC C_MS_RPT_C ALL_CLR	ACCUMULA TION	INT8	H332Di:Failed Outgoing External Inter- Cell Handovers (Reconnection to Old Channels) (Call Already Cleared)	B1275071429.C12 78081511	Sum	hucsvbh, huctvbh
RECONN_SUC C_MS_RPT_C H_MODE	ACCUMULA TION	INT8	H332Dg:Failed Outgoing External Inter- Cell Handovers (Reconnection to Old Channels) (Channel Mode Unavailable)	B1275071429.C12 78081509	Sum	hucsvbh, huctvbh
RECONN_SUC	ACCUMULA	INT8	H332Dn:Failed	B1275071429.C12	Sum	hucsvbh,

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C_MS_RPT_C ONDIT	TION		Outgoing External Inter- Cell Handovers (Reconnection to Old Channels) (Conditional IE Error)	78081516		huctvbh
RECONN_SUC C_MS_RPT_FR EQ	ACCUMULA TION	INT8	H332Dh:Failed Outgoing External Inter- Cell Handovers (Reconnection to Old Channels) (Frequency Unavailable)	B1275071429.C12 78081510	Sum	hucsvbh, huctvbh
RECONN_SUC C_MS_RPT_H O_TA	ACCUMULA TION	INT8	H332Df:Failed Outgoing External Inter- Cell Handovers (Reconnection to Old Channels) (Handover Failed, Timing Advance out of Range)	B1275071429.C12 78081508	Sum	hucsvbh, huctvbh
RECONN_SUC C_MS_RPT_IN VALID_MAN	ACCUMULA TION	INT8	H332Dk:Failed Outgoing External Inter- Cell Handovers (Reconnection to Old Channels) (Invalid Mandatory Information)	B1275071429.C12 78081513	Sum	hucsvbh, huctvbh
RECONN_SUC C_MS_RPT_N O_CA	ACCUMULA TION	INT8	H332Do:Failed Outgoing External Inter- Cell Handovers (Reconnection	B1275071429.C12 78081517	Sum	hucsvbh, huctvbh

			to Old Channels) (No Cell Allocation Available)			
RECONN_SUC C_MS_RPT_OTH ER	ACCUMULA TION	INT8	H332Dq:Failed Outgoing External Inter- Cell Handovers (Reconnection to Old Channels) (Other Causes)	B1275071429.C12 78081519	Sum	hucsvbh, huctvbh
RECONN_SUC C_MS_RPT_PR EEMPT	ACCUMULA TION	INT8	H332De:Failed Outgoing External Inter- Cell Handovers (Reconnection to Old Channels) (Preemptive Release)	B1275071429.C12 78081507	Sum	hucsvbh, huctvbh
RECONN_SUC C_MS_RPT_PR OTOCL	ACCUMULA TION	INT8	H332Dp:Failed Outgoing External Inter- Cell Handovers (Reconnection to Old Channels) (Protocol Error Unspecified)	B1275071429.C12 78081518	Sum	hucsvbh, huctvbh
RECONN_SUC C_MS_RPT_SE MANT	ACCUMULA TION	INT8	H332Dj:Failed Outgoing External Inter- Cell Handovers (Reconnection to Old Channels) (Semantically Incorrect	B1275071429.C12 78081512	Sum	hucsvbh, huctvbh

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			Message)			
SD_NOT_INCL UDE_DR_1800_1800	ACCUMULATION	INT8	H3320X:Failed Outgoing External Inter- Cell Handovers (SDCCH) (Excluding Directed Retry) (1800/1900-1800/1900)	B1275071429.C12 78081438	Sum	hucsvbh, huctvbh
SD_NOT_INCL UDE_DR_1800_900	ACCUMULATION	INT8	H3320Z:Failed Outgoing External Inter- Cell Handovers (SDCCH) (Excluding Directed Retry) (1800/1900-900/850)	B1275071429.C12 78081440	Sum	hucsvbh, huctvbh
SD_NOT_INCL UDE_DR_900_1800	ACCUMULATION	INT8	H3320Y:Failed Outgoing External Inter- Cell Handovers (SDCCH) (Excluding Directed Retry) (900/850-1800/1900)	B1275071429.C12 78081439	Sum	hucsvbh, huctvbh
SD_NOT_INCL UDE_DR_900_900	ACCUMULATION	INT8	H3320W:Failed Outgoing External Inter- Cell Handovers (SDCCH) (Excluding Directed Retry) (900/850-900/850)	B1275071429.C12 78081437	Sum	hucsvbh, huctvbh
T7_EXP_SD_NOT_INCL UDE_DR	ACCUMULATION	INT8	H3320L:Failed Outgoing External Inter- Cell Handovers (T7 Expiry) (SDCCH)	B1275071429.C12 78081529	Sum	hucsvbh, huctvbh

T7_EXP_TCHF _TRAF_CH	ACCUMULATION	INT8	H3327La:Failed Outgoing External Inter-Cell Handovers (T7 Expired) (TCHF) (Traffic Channel)	B1275071429.C12 78081532	Sum	hucsvbh, huctvbh
T7_EXP_TCHH _TRAF_CH	ACCUMULATION	INT8	H3328La:Failed Outgoing External Inter-Cell Handovers (T7 Expired) (TCHH) (Traffic Channel)	B1275071429.C12 78081533	Sum	hucsvbh, huctvbh
T8_EXP_SD_N OT_INCLUDE_ DR	ACCUMULATION	INT8	H3320C:Failed Outgoing External Inter-Cell Handovers (T8 Expiry) (SDCCH) (Excluding Directed Retry)	B1275071429.C12 78081535	Sum	hucsvbh, huctvbh
T8_EXP_TCHF _TRAF_CH	ACCUMULATION	INT8	H3327Ca:Failed Outgoing External Inter-Cell Handovers (T8 Expired) (TCHF) (Traffic Channel)	B1275071429.C12 78081538	Sum	hucsvbh, huctvbh
T8_EXP_TCHH _TRAF_CH	ACCUMULATION	INT8	H3328Ca:Failed Outgoing External Inter-Cell Handovers (T8 Expired) (TCHH) (Traffic	B1275071429.C12 78081539	Sum	hucsvbh, huctvbh

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			Channel)			
TCHF_NOT_IN CLUDE_DR_18 00_1800	ACCUMULA TION	INT8	H3327X:Failed Outgoing External Inter- Cell Handovers (TCHF) (Excluding Directed Retry) (1800/1900-180 0/1900)	B1275071429.C12 78081442	Sum	hucsvbh, huctvbh
TCHF_NOT_IN CLUDE_DR_18 00_900	ACCUMULA TION	INT8	H3327Z:Failed Outgoing External Inter- Cell Handovers (TCHF) (Excluding Directed Retry) (1800/1900-900 /850)	B1275071429.C12 78081444	Sum	hucsvbh, huctvbh
TCHF_NOT_IN CLUDE_DR_90 0_1800	ACCUMULA TION	INT8	H3327Y:Failed Outgoing External Inter- Cell Handovers (TCHF) (Excluding Directed Retry) (900/850-1800/ 1900)	B1275071429.C12 78081443	Sum	hucsvbh, huctvbh
TCHF_NOT_IN CLUDE_DR_90 0_900	ACCUMULA TION	INT8	H3327W:Failed Outgoing External Inter- Cell Handovers (TCHF) (Excluding Directed Retry) (900/850-900/8 50)	B1275071429.C12 78081441	Sum	hucsvbh, huctvbh
TCHH_NOT_I NCLUDE_DR_ 1800_1800	ACCUMULA TION	INT8	H3328X:Failed Outgoing External Inter- Cell Handovers (TCHH) (Excluding	B1275071429.C12 78081446	Sum	hucsvbh, huctvbh

			Directed Retry) (1800/1900-1800/1900)			
TCHH_NOT_INCLUDE_DR_1800_900	ACCUMULATION	INT8	H3328Z:Failed Outgoing External Inter-Cell Handovers (TCHH) (Excluding Directed Retry) (1800/1900-900/850)	B1275071429.C12 78081448	Sum	hucsvbh, huctvbh
TCHH_NOT_INCLUDE_DR_900_1800	ACCUMULATION	INT8	H3328Y:Failed Outgoing External Inter-Cell Handovers (TCHH) (Excluding Directed Retry) (900/850-1800/1900)	B1275071429.C12 78081447	Sum	hucsvbh, huctvbh
TCHH_NOT_INCLUDE_DR_900_900	ACCUMULATION	INT8	H3328W:Failed Outgoing External Inter-Cell Handovers (TCHH) (Excluding Directed Retry) (900/850-900/850)	B1275071429.C12 78081445	Sum	hucsvbh, huctvbh

### 7.9.95 Cell.Huawei.GSM.Outgo\_ext\_intercell\_HO\_overview

Outgoing external intercell handover overview

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
HO_CMD	ACCUMULATION	INT8	CH331:Outgoing	B1275071429.C12	Sum	hucsvbh,

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	TION		g External Inter-Cell Handover Commands	78081558		huctvbh
HO_FAIL_MS_C_CLR	ACCUMULATION	INT8	CH332H:Failed Outgoing External Inter-Cell Handovers (Clear Commands Sent By MSC)	B1275071429.C12 78081563	Sum	hucsvbh, huctvbh
HO_FAIL_RECONN_SUCC	ACCUMULATION	INT8	CH332D:Failed Outgoing External Inter-Cell Handovers (Reconnection to Old Channels)	B1275071429.C12 78081562	Sum	hucsvbh, huctvbh
HO_FAIL_REQ_REJ	ACCUMULATION	INT8	CH332K:Failed Outgoing External Inter-Cell Handovers (Handover Request Rejected)	B1275071429.C12 78081561	Sum	hucsvbh, huctvbh
HO_FAIL_T7_EXP	ACCUMULATION	INT8	CH332L:Failed Outgoing External Inter-Cell Handovers (T7 Expired)	B1275071429.C12 78081564	Sum	hucsvbh, huctvbh
HO_FAIL_T8_EXP	ACCUMULATION	INT8	CH332C:Failed Outgoing External Inter-Cell Handovers (T8 Expired)	B1275071429.C12 78081565	Sum	hucsvbh, huctvbh
HO_FAIL	ACCUMULATION	INT8	CH332:Failed Outgoing External Inter-Cell Handovers	B1275071429.C12 78081559	Sum	hucsvbh, huctvbh
HO_REQ	ACCUMULATION	INT8	CH330:Outgoing External Inter-Cell Handover	B1275071429.C12 78081556	Sum	hucsvbh, huctvbh

			Requests			
HO_SUCC_BSC_LOOP	ACCUMULATION	INT8	CH333a: Number of Inter-BSC Outgoing Cell Handover Successes During BSC Loopback	B1275071429.C12 78081572	Sum	hucsvbh, huctvbh
HO_SUCC_BTS_LOOP	ACCUMULATION	INT8	CH333b: Number of Inter-BSC Outgoing Cell Handover Successes During BTS Loopback	B1275071429.C12 78081574	Sum	hucsvbh, huctvbh
HO_SUCC_RATE_BSC_LOOP	INTENSITY	FLOAT	TH333a: Success Rate of Inter-BSC Outgoing Cell Handover During BSC Loopback	B1275071429.C12 78081573	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
HO_SUCC_RATE_BTS_LOOP	INTENSITY	FLOAT	TH333b: Success Rate of Inter-BSC Outgoing Cell Handover During BTS Loopback	B1275071429.C12 78081575	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
HO_SUCC_RATE	INTENSITY	FLOAT	TH333: Success Rate of Outgoing External Inter-Cell Handover	B1275071429.C12 78081560	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
HO_SUCC	ACCUMULATION	INT8	CH333: Successful Outgoing	B1275071429.C12 78081557	Sum	hucsvbh, huctvbh

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			External Inter-Cell Handovers			
INTERBSC_OUT_RD_HO_S UCC_RATE	INTENSITY	FLOAT	RH303E:External Outgoing Radio Handover Success Ratio per cell	B1275071429.C1278081578	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum

### 7.9.96 Cell.Huawei.GSM.Outgo\_ext\_intercell\_HO\_reqs\_cmds

Outgoing external intercell handover requests and commands

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CLEAR_CMD_AFTER_HO_CMD	ACCUMULATION	INT8	H335B:Outgoing External Inter-Cell Handover Clear Cmd Times (After Handover Response)	B1275071429.C1278081577	Sum	hucsvbh, huctvbh
CLEAR_CMD_BEFORE_HO_CMD	ACCUMULATION	INT8	H335A:Outgoing External Inter-Cell Handover Clear Cmd Times (Before Handover Response)	B1275071429.C1278081576	Sum	hucsvbh, huctvbh
HO_CMD_BETTER_CELL	ACCUMULATION	INT8	H331F:Outgoing External Inter-Cell Handover Commands (Better Cell)	B1275071429.C1278081470	Sum	hucsvbh, huctvbh
HO_CMD_BSC_LOOP	ACCUMULATION	INT8	H331Aa:Number of Inter-BSC Outgoing	B1275071429.C1278081568	Sum	hucsvbh, huctvbh

			Cell Handover Commands During BSC Loopback			
HO_CMD_BTS_LOOP	ACCUMULATION	INT8	H371P: Number of Inter-BSC Outgoing Cell Handover Commands During BTS Loopback	B1275071429.C1 278081569	Sum	hucsvbh, huctvbh
HO_CMD_DIFFERENT_SIG_POINT	ACCUMULATION	INT8	H3313: Outgoing External Inter-Cell Handover Commands (Different Signaling Points)	B1275071429.C1 278081542	Sum	hucsvbh, huctvbh
HO_CMD_DL_QUALITY	ACCUMULATION	INT8	H331B: Outgoing External Inter-Cell Handover Commands (Downlink Quality)	B1275071429.C1 278081466	Sum	hucsvbh, huctvbh
HO_CMD_DL_RX	ACCUMULATION	INT8	H331D: Outgoing External Inter-Cell Handover Commands (Downlink Strength)	B1275071429.C1 278081468	Sum	hucsvbh, huctvbh
HO_CMD_DR_1800_1800	ACCUMULATION	INT8	H3311X: Outgoing External Inter-Cell Handover Commands	B1275071429.C1 278081434	Sum	hucsvbh, huctvbh

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			(Directed Retry) (1800/1900-1800/1900)			
HO_CMD_DR_1800_900	ACCUMULATION	INT8	H3311Z:Outgoing External Inter-Cell Handover Commands(Directed Retry) (1800/1900-900/850)	B1275071429.C1 278081436	Sum	hucsvbh, huctvbh
HO_CMD_DR_900_1800	ACCUMULATION	INT8	H3311Y:Outgoing External Inter-Cell Handover Commands (Directed Retry) (900/850-1800/1900)	B1275071429.C1 278081435	Sum	hucsvbh, huctvbh
HO_CMD_DR_900_900	ACCUMULATION	INT8	H3311W:Outgoing External Inter-Cell Handover Commands(Directed Retry) (900/850-900/850)	B1275071429.C1 278081433	Sum	hucsvbh, huctvbh
HO_CMD_EDGE_COV	ACCUMULATION	INTEGER	H331K:Outgoing External Inter-Cell Handover Commands (EDGE cov)	B1275071429.C1 278081475	Sum	hucsvbh, huctvbh
HO_CMD_LOAD	ACCUMULATION	INT8	H331G:Outgoing External Inter-Cell Handover Commands (Load)	B1275071429.C1 278081471	Sum	hucsvbh, huctvbh
HO_CMD_MSC_	ACCUMULATION	INT8	H331I:Outgoi	B1275071429.C1	Sum	hucsvbh,

INTERV	TION		ng External Inter-Cell Handover Commands (MSC Intervention)	278081473		huctvbh
HO_CMD_OM_I NTERV	ACCUMULA TION	INT8	H331J:Outgo ing External Inter-Cell Handover Commands (OM Intervention)	B1275071429.C1 278081474	Sum	hucsvbh, huctvbh
HO_CMD_OTHE R	ACCUMULA TION	INT8	H331L:Outgo ing External Inter-Cell Handover Commands (Other Causes)	B1275071429.C1 278081476	Sum	hucsvbh, huctvbh
HO_CMD_RAPI D_LEV_DROP	ACCUMULA TION	INT8	H331H:Outgo ing External Inter-Cell Handover Commands (Rapid Level Drop)	B1275071429.C1 278081472	Sum	hucsvbh, huctvbh
HO_CMD_SD_N OT_INCL_DR_18 00_1800	ACCUMULA TION	INT8	H3310X:Outg oing External Inter-Cell Handover Commands (SDCCH) (Excluding Directed Retry) (1800/1900-18 00/1900)	B1275071429.C1 278081422	Sum	hucsvbh, huctvbh

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HO_CMD_SD_N OT_INCL_DR_18 00_900	ACCUMULA TION	INT8	H3310Z:Outg oing External Inter-Cell Handover Commands (SDCCH) (Excluding Directed Retry) (1800/1900-90 0/850)	B1275071429.C1 278081424	Sum	hucsvbh, huctvbh
HO_CMD_SD_N OT_INCL_DR_90 0_1800	ACCUMULA TION	INT8	H3310Y:Outg oing External Inter-Cell Handover Commands (SDCCH) (Excluding Directed Retry) (900/850-1800 /1900)	B1275071429.C1 278081423	Sum	hucsvbh, huctvbh
HO_CMD_SD_N OT_INCL_DR_90 0_900	ACCUMULA TION	INT8	H3310W:Outg oing External Inter-Cell Handover Commands (SDCCH) (Excluding Directed Retry) (900/850-900/ 850)	B1275071429.C1 278081421	Sum	hucsvbh, huctvbh
HO_CMD_SDCC H_BETTER_CEL L_DR	ACCUMULA TION	INT8	H3310N:Num ber of Outgoing External Inter- Cell Handover Commands (SDCCH) (Better Cell Directed Retry)	B1275071429.C1 282412174	Sum	hucsvbh, huctvbh

HO_CMD_TA	ACCUMULATION	INT8	H331E:Outgoing External Inter-Cell Handover Commands (Timing Advance)	B1275071429.C1 278081469	Sum	hucsvbh, huctvbh
HO_CMD_TCHF_NOT_INCL_DR_1800_1800	ACCUMULATION	INT8	H3317X:Outgoing External Inter-Cell Handover Commands (TCHF) (Excluding Directed Retry) (1800/1900-1800/1900)	B1275071429.C1 278081426	Sum	hucsvbh, huctvbh
HO_CMD_TCHF_NOT_INCL_DR_1800_900	ACCUMULATION	INT8	H3317Z:Outgoing External Inter-Cell Handover Commands (TCHF) (Excluding Directed Retry) (1800/1900-900/850)	B1275071429.C1 278081428	Sum	hucsvbh, huctvbh
HO_CMD_TCHF_NOT_INCL_DR_900_1800	ACCUMULATION	INT8	H3317Y:Outgoing External Inter-Cell Handover Commands (TCHF) (Excluding Directed Retry) (900/850-1800/1900)	B1275071429.C1 278081427	Sum	hucsvbh, huctvbh

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HO_CMD_TCHF _NOT_INCL_DR _900_900	ACCUMULATION	INT8	H3317W:Outgoing External Inter-Cell Handover Commands (TCHF) (Excluding Directed Retry) (900/850-900/850)	B1275071429.C1 278081425	Sum	hucsvbh, huctvbh
HO_CMD_TCHH _NOT_INCL_DR _1800_1800	ACCUMULATION	INT8	H3318X:Outgoing External Inter-Cell Handover Commands (TCHH) (Excluding Directed Retry) (1800/1900-1800/1900)	B1275071429.C1 278081430	Sum	hucsvbh, huctvbh
HO_CMD_TCHH _NOT_INCL_DR _1800_900	ACCUMULATION	INT8	H3318Z:Outgoing External Inter-Cell Handover Commands (TCHH) (Excluding Directed Retry) (1800/1900-900/850)	B1275071429.C1 278081432	Sum	hucsvbh, huctvbh
HO_CMD_TCHH _NOT_INCL_DR _900_1800	ACCUMULATION	INT8	H3318Y:Outgoing External Inter-Cell Handover Commands (TCHH) (Excluding Directed Retry) (900/850-1800/1900)	B1275071429.C1 278081431	Sum	hucsvbh, huctvbh

HO_CMD_TCHH _NOT_INCL_DR _900_900	ACCUMULATION	INT8	H3318W:Outgoing External Inter-Cell Handover Commands (TCHH) (Excluding Directed Retry) (900/850-900/850)	B1275071429.C1 278081429	Sum	hucsvbh, huctvbh
HO_CMD_UL_Q LTY	ACCUMULATION	INT8	H331A:Outgoing External Inter-Cell Handover Commands (Uplink Quality)	B1275071429.C1 278081465	Sum	hucsvbh, huctvbh
HO_CMD_UL_R XL	ACCUMULATION	INT8	H331C:Outgoing External Inter-Cell Handover Commands (Uplink Strength)	B1275071429.C1 278081467	Sum	hucsvbh, huctvbh
HO_REQ_BETTER _CELL	ACCUMULATION	INT8	H330F:Outgoing External Inter-Cell Handover Requests (Better Cell)	B1275071429.C1 278081458	Sum	hucsvbh, huctvbh
HO_REQ_BSC_L OO	ACCUMULATION	INT8	H333a:Number of Inter-BSC Outgoing Cell Handover Requests During BSC Loopback	B1275071429.C1 278081566	Sum	hucsvbh, huctvbh

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HO_REQ_BTS_L OO	ACCUMULA TION	INT8	H333b:Numbe r of Inter-BSC Outgoing Cell Handover Requests During BTS Loopback	B1275071429.C1 278081567	Sum	hucsvbh, huctvbh
HO_REQ_DIFFE RENT_SIG_POIN T	ACCUMULA TION	INT8	H3303:Outgoi ng External Inter-Cell Handover Requests (Different Signaling Points)	B1275071429.C1 278081541	Sum	hucsvbh, huctvbh
HO_REQ_DL_Q LTY	ACCUMULA TION	INT8	H330B:Outgoi ng External Inter-Cell Handover Requests (Downlink Quality)	B1275071429.C1 278081454	Sum	hucsvbh, huctvbh
HO_REQ_DL_R XL	ACCUMULA TION	INT8	H330D:Outgo ing External Inter-Cell Handover Requests (Downlink Strength)	B1275071429.C1 278081456	Sum	hucsvbh, huctvbh
HO_REQ_DR_18 00_1800	ACCUMULA TION	INT8	H3301X:Outg oing External Inter-Cell Handover Requests (Directed Retry) (1800/1900-18 00/1900)	B1275071429.C1 278081553	Sum	hucsvbh, huctvbh
HO_REQ_DR_18 00_900	ACCUMULA TION	INT8	H3301Z:Outg oing External Inter-Cell Handover Requests	B1275071429.C1 278081555	Sum	hucsvbh, huctvbh

			(Directed Retry) (1800/1900-900/850)			
HO_REQ_DR_900_1800	ACCUMULATION	INT8	H3301Y:Outgoing External Inter-Cell Handover Requests (Directed Retry) (900/850-1800/1900)	B1275071429.C1 278081554	Sum	hucsvbh, huctvbh
HO_REQ_DR_900_900	ACCUMULATION	INT8	H3301W:Outgoing External Inter-Cell Handover Requests (Directed Retry) (900/850-900/850)	B1275071429.C1 278081552	Sum	hucsvbh, huctvbh
HO_REQ_EDGE_COV	ACCUMULATION	INTEGER	H330K:Outgoing External Inter-Cell Handover Requests (EDGE cov)	B1275071429.C1 278081463	Sum	hucsvbh, huctvbh
HO_REQ_LOAD	ACCUMULATION	INT8	H330G:Outgoing External Inter-Cell Handover Requests (Load)	B1275071429.C1 278081459	Sum	hucsvbh, huctvbh
HO_REQ_MSC_INTERV	ACCUMULATION	INT8	H330I:Outgoing External Inter-Cell Handover	B1275071429.C1 278081461	Sum	hucsvbh, huctvbh

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			Requests (MSC Intervention)			
HO_REQ_OM_I NTERV	ACCUMULA TION	INT8	H330J:Outgoi ng External Inter-Cell Handover Requests (OM Intervention)	B1275071429.C1 278081462	Sum	hucsvbh, huctvbh
HO_REQ_OTHE R	ACCUMULA TION	INT8	H330L:Outgoi ng External Inter-Cell Handover Requests (Other Causes)	B1275071429.C1 278081464	Sum	hucsvbh, huctvbh
HO_REQ_RAPID _LEV_DROP	ACCUMULA TION	INT8	H330H:Outgo ing External Inter-Cell Handover Requests (Rapid Level Drop)	B1275071429.C1 278081460	Sum	hucsvbh, huctvbh
HO_REQ_SD_N OT_INCL_DR_18 00_1800	ACCUMULA TION	INT8	H3300X:Outg oing External Inter-Cell Handover Requests (SDCCH) (Excluding Directed Retry) (1800/1900-18 00/1900)	B1275071429.C1 278081418	Sum	hucsvbh, huctvbh
HO_REQ_SD_N OT_INCL_DR_18 00_900	ACCUMULA TION	INT8	H3300Z:Outg oing External Inter-Cell Handover Requests (SDCCH) (Excluding Directed Retry)	B1275071429.C1 278081420	Sum	hucsvbh, huctvbh

			(1800/1900-900/850)			
HO_REQ_SD_NOT_INCL_DR_900_1800	ACCUMULATION	INT8	H3300Y:Outgoing External Inter-Cell Handover Requests (SDCCH) (Excluding Directed Retry) (900/850-1800/1900)	B1275071429.C1 278081419	Sum	hucsvbh, huctvbh
HO_REQ_SD_NOT_INCL_DR_900_900	ACCUMULATION	INT8	H3300W:Outgoing External Inter-Cell Handover Requests (SDCCH) (Excluding Directed Retry) (900/850-900/850)	B1275071429.C1 278081417	Sum	hucsvbh, huctvbh
HO_REQ_TA	ACCUMULATION	INT8	H330E:Outgoing External Inter-Cell Handover Requests (Timing Advance)	B1275071429.C1 278081457	Sum	hucsvbh, huctvbh
HO_REQ_TCHF_NOT_INCLDR_1800_1800	ACCUMULATION	INT8	H3307X:Outgoing External Inter-Cell Handover Requests (TCHF) (Excluding Directed	B1275071429.C1 278081545	Sum	hucsvbh, huctvbh

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			Retry) (1800/1900-1800/1900)			
HO_REQ_TCHF_NOT_INCLDR_1800_900	ACCUMULATION	INT8	H3307Z:Outgoing External Inter-Cell Handover Requests (TCHF) (Excluding Directed Retry) (1800/1900-900/850)	B1275071429.C1 278081547	Sum	hucsvbh, huctvbh
HO_REQ_TCHF_NOT_INCLDR_900_1800	ACCUMULATION	INT8	H3307Y:Outgoing External Inter-Cell Handover Requests (TCHF) (Excluding Directed Retry) (900/850-1800/1900)	B1275071429.C1 278081546	Sum	hucsvbh, huctvbh
HO_REQ_TCHF_NOT_INCLDR_900_900	ACCUMULATION	INT8	H3307W:Outgoing External Inter-Cell Handover Requests (TCHF) (Excluding Directed Retry) (900/850-900/850)	B1275071429.C1 278081544	Sum	hucsvbh, huctvbh
HO_REQ_TCHH_NOT_INCLDR_1800_1800	ACCUMULATION	INT8	H3308X:Outgoing External Inter-Cell Handover Requests (TCHH) (Excluding	B1275071429.C1 278081549	Sum	hucsvbh, huctvbh

			Directed Retry) (1800/1900-18 00/1900)			
HO_REQ_TCHH _NOT_INCLDR_ 1800_900	ACCUMULA TION	INT8	H3308Z:Outg oing External Inter-Cell Handover Requests (TCHH) (Excluding Directed Retry) (1800/1900-90 0/850)	B1275071429.C1 278081551	Sum	hucsvbh, huctvbh
HO_REQ_TCHH _NOT_INCLDR_ 900_1800	ACCUMULA TION	INT8	H3308Y:Outg oing External Inter-Cell Handover Requests (TCHH) (Excluding Directed Retry) (900/850-1800 /1900)	B1275071429.C1 278081550	Sum	hucsvbh, huctvbh
HO_REQ_TCHH _NOT_INCLDR_ 900_900	ACCUMULA TION	INT8	H3308W:Outg oing External Inter-Cell Handover Requests (TCHH) (Excluding Directed Retry) (900/850-900/ 850)	B1275071429.C1 278081548	Sum	hucsvbh, huctvbh
HO_REQ_UL_Q LTY	ACCUMULA TION	INT8	H330A:Outgo ing External	B1275071429.C1 278081453	Sum	hucsvbh, huctvbh

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			Inter-Cell Handover Requests (Uplink Quality)			
HO_REQ_UL_RXL	ACCUMULATION	INT8	H330C:Outgoing External Inter-Cell Handover Requests (Uplink Strength)	B1275071429.C1 278081455	Sum	hucsvbh, huctvbh
HO_RQ_SDCCH_BETTER_CELL_DR	ACCUMULATION	INT8	H3300N: Number of Outgoing External Inter-Cell Handover Requests (SDCCH) (Better Cell Directed Retry)	B1275071429.C1 282412173	Sum	hucsvbh, huctvbh
Out_External_Inte rCellHOCmdTCH	ACCUMULATION	INTEGER	CH3319A: Number of Outgoing External Inter-Cell Handover Commands(TCH)	B1275071429.C1 282448084	Sum	
Out_External_Inte rCellHOReqTCH	ACCUMULATION	INTEGER	CH3309A: Number of Outgoing External Inter-Cell Handover Requests(TCH)	B1275071429.C1 282448083	Sum	

### 7.9.97 Cell.Huawei.GSM.Outgo\_int\_intercell\_HO\_failures

outgoing internal intercell handover failures

KPI	Type	Data Type	Description	Derivation	Default Aggrega	Other Aggrega
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					tor	tors
DUBAND_INNER_OUTTER	ACCUMULATION	INT8	H312N: Number of Intra-BSC Outgoing Cell Handover Failures (Overlaid to Underlaid Subcell Handover in Enhanced Dualband Network)	B1275071427.C12 78079552	Sum	hucsvbh, huctvbh
DUBAND_INNER_USER_MOVE	ACCUMULATION	INT8	H312O: Number of Intra-BSC Outgoing Cell Handover Failures (MS Handover in the Overlaid Subcell Covered by the Enhanced Dualband Network)	B1275071427.C12 78079553	Sum	hucsvbh, huctvbh
DUBAND_OUTTER_INNER	ACCUMULATION	INT8	H312M: Number of Intra-BSC Outgoing Cell Handover Failures (Underlaid to Overlaid Subcell Handover in Enhanced Dualband Network)	B1275071427.C12 78079551	Sum	hucsvbh, huctvbh
EXP_SD_NOT_INCLUDE_DR	ACCUMULATION	INT8	H3120C: Failed Outgoing	B1275071427.C12 78079468	Sum	hucsvbh, huctvbh

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			Internal Inter-Cell Handovers (Timer Expired) (SDCCH) (Excluding Directed Retry)			
EXP_TCHF_SIG_NOT_INCLUDE_DR	ACCUMULATION	INT8	H3127Cb:Failed Outgoing Internal Inter-Cell Handovers (Timer Expired) (TCHF) (Signaling Channel)	B1275071427.C1278079469	Sum	hucsvbh, huctvbh
EXP_TCHF_TRAF_NOT_INCLUDE_DR	ACCUMULATION	INT8	H3127Ca:Failed Outgoing Internal Inter-Cell Handovers (Timer Expired) (TCHF) (Traffic Channel)	B1275071427.C1278079471	Sum	hucsvbh, huctvbh
EXP_TCHH_SIG_NOT_INCLUDE_DR	ACCUMULATION	INT8	H3128Cb:Failed Outgoing Internal Inter-Cell Handovers (Timer Expired) (TCHH) (Signaling Channel)	B1275071427.C1278079470	Sum	hucsvbh, huctvbh
EXP_TCHH_TRAF_NOT_INCLUDE_DR	ACCUMULATION	INT8	H3128Ca:Failed Outgoing Internal Inter-Cell Handovers (Timer Expired) (TCHH) (Traffic Channel)	B1275071427.C1278079472	Sum	hucsvbh, huctvbh

FAIL_HO_OVE RLAID_TO_O VERLAID	ACCUMULA TION	INT8	H312II:Numbe r of Failed Outgoing Internal Inter- Cell Handovers (Overlaid to Overlaid)	B1275071427.C12 78079567	Sum	hucsvbh, huctvbh
FAIL_HO_OVE RLAID_TO_U NDERLAID	ACCUMULA TION	INT8	H312IO:Numbe r of Failed Outgoing Internal Inter- Cell Handovers (Overlaid to Underlaid)	B1275071427.C12 78079566	Sum	hucsvbh, huctvbh
FAIL_HO_SDC CH_BETTER_ CELL_DR	ACCUMULA TION	INT8	H3120N:Numb er of Failed Outgoing Internal Inter- Cell Handovers (SDCCH) (Better Cell Directed Retry)	B1275071427.C12 82412172	Sum	hucsvbh, huctvbh
FAIL_HO_UN DERLAID_TO_ OVERLAID	ACCUMULA TION	INT8	H312OI:Numbe r of Failed Outgoing Internal Inter- Cell Handovers (Underlaid to Overlaid)	B1275071427.C12 78079565	Sum	hucsvbh, huctvbh
FAIL_HO_UN DERLAID_TO_ UNDERLAID	ACCUMULA TION	INT8	H312OO:Numb er of Failed Outgoing Internal Inter- Cell Handovers (Underlaid to Underlaid)	B1275071427.C12 78079564	Sum	hucsvbh, huctvbh
Failed_Out_Int_ InterCellHO	ACCUMULA TION	INTEG ER	CH3129A:Num ber of Failed	B1275071427.C12 82448082	Sum	

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			Outgoing Internal Inter- Cell Handovers(TC H)			
HO_FAIL_A_I NTERF_FAIL	ACCUMULA TION	INT8	H312G:Failed Outgoing Internal Inter- Cell Handovers (A Interface Failure)	B1275071427.C12 78079467	Sum	hucsvbh, huctvbh
HO_FAIL_APP PLY_TRSL_FAI L	ACCUMULA TION	INT8	H312B:Failed Outgoing Internal Inter- Cell Handovers (Terrestrial Resource Request Failed)	B1275071427.C12 78079466	Sum	hucsvbh, huctvbh
HO_FAIL_BET TER_CELL	ACCUMULA TION	INT8	H3122F:Failed Outgoing Internal Inter- Cell Handovers (Better Cell)	B1275071427.C12 78079520	Sum	hucsvbh, huctvbh
HO_FAIL_BSC _LOOP	ACCUMULA TION	INT8	H312Aa:Failed Outgoing Internal Inter- Cell Handovers (BSC LOOP)	B1275071427.C12 78079538	Sum	hucsvbh, huctvbh
HO_FAIL_BTS _LOOP	ACCUMULA TION	INT8	H312Ab:Failed Outgoing Internal Inter- Cell Handovers (BTS LOOP)	B1275071427.C12 78079539	Sum	hucsvbh, huctvbh
HO_FAIL_CH ACT_FAIL	ACCUMULA TION	INT8	H312I:Failed Outgoing Internal Inter- Cell Handovers (Channel Activation Failed)	B1275071427.C12 78079555	Sum	hucsvbh, huctvbh
HO_FAIL_CO	ACCUMULA	INT8	H312A:Failed	B1275071427.C12	Sum	hucsvbh,

NG	TION		Outgoing Internal Inter-Cell Handovers (No Channel Available)	78079465		huctvbh
HO_FAIL_DL_QLTY	ACCUMULATION	INT8	H3122B:Failed Outgoing Internal Inter-Cell Handovers (Downlink Quality)	B1275071427.C12 78079516	Sum	hucsvbh, huctvbh
HO_FAIL_DL_RXL	ACCUMULATION	INT8	H3122D:Failed Outgoing Internal Inter-Cell Handovers (Downlink Strength)	B1275071427.C12 78079518	Sum	hucsvbh, huctvbh
HO_FAIL_DR_1800_1800	ACCUMULATION	INT8	H3121X:Failed Outgoing Internal Inter-Cell Handovers (Directed Retry) (1800/1900-1800/1900)	B1275071427.C12 78079462	Sum	hucsvbh, huctvbh
HO_FAIL_DR_1800_900	ACCUMULATION	INT8	H3121Z:Failed Outgoing Internal Inter-Cell Handovers (Directed Retry) (1800/1900-900/850)	B1275071427.C12 78079464	Sum	hucsvbh, huctvbh
HO_FAIL_DR_900_1800	ACCUMULATION	INT8	H3121Y:Failed Outgoing Internal Inter-Cell Handovers (Directed	B1275071427.C12 78079463	Sum	hucsvbh, huctvbh

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			Retry) (900/850-1800/ 1900)			
HO_FAIL_DR_900_900	ACCUMULATION	INT8	H3121W:Failed Outgoing Internal Inter- Cell Handovers (Directed Retry) (900/850-900/8 50)	B1275071427.C12 78079461	Sum	hucsvbh, huctvbh
HO_FAIL_EDGE_COV	ACCUMULATION	INTEGER	H3122K:Failed Outgoing Internal Inter- Cell Handovers (EDGE cov)	B1275071427.C12 78079525	Sum	hucsvbh, huctvbh
HO_FAIL_EXP_DR	ACCUMULATION	INT8	H3121C:Failed Outgoing Internal Inter- Cell Handovers (Timer Expired) (Directed Retry)	B1275071427.C12 78079473	Sum	hucsvbh, huctvbh
HO_FAIL_LOAD	ACCUMULATION	INT8	H3122G:Failed Outgoing Internal Inter- Cell Handovers (Load)	B1275071427.C12 78079521	Sum	hucsvbh, huctvbh
HO_FAIL_MSC_INTERV	ACCUMULATION	INT8	H3122I:Failed Outgoing Internal Inter- Cell Handovers (MSC Intervention)	B1275071427.C12 78079523	Sum	hucsvbh, huctvbh
HO_FAIL_NO_IDLE_ABIS	ACCUMULATION	INT8	H312L:Number of Intra-BSC Outgoing Cell Handover Failures Due to No Abis Resources	B1275071427.C12 78079544	Sum	hucsvbh, huctvbh

			Available			
HO_FAIL_NO_SPEECH_VER	ACCUMULATION	INT8	H312H:Failed Outgoing Internal Inter-Cell Handovers (Requested Speech Version Unavailable)	B1275071427.C12 78079554	Sum	hucsvbh, huctvbh
HO_FAIL_OM_INTERV	ACCUMULATION	INT8	H3122J:Failed Outgoing Internal Inter-Cell Handovers (OM Intervention)	B1275071427.C12 78079524	Sum	hucsvbh, huctvbh
HO_FAIL_OTHER	ACCUMULATION	INT8	H3122L:Failed Outgoing Internal Inter-Cell Handovers (Other Causes)	B1275071427.C12 78079526	Sum	hucsvbh, huctvbh
HO_FAIL_RAPID_LEV_DROP	ACCUMULATION	INT8	H3122H:Failed Outgoing Internal Inter-Cell Handovers (Rapid Level Drop)	B1275071427.C12 78079522	Sum	hucsvbh, huctvbh
HO_FAIL_TA	ACCUMULATION	INT8	H3122E:Failed Outgoing Internal Inter-Cell Handovers (Timing Advance)	B1275071427.C12 78079519	Sum	hucsvbh, huctvbh
HO_FAIL_UL_QLTY	ACCUMULATION	INT8	H3122A:Failed Outgoing Internal Inter-Cell Handovers (Uplink Quality)	B1275071427.C12 78079515	Sum	hucsvbh, huctvbh

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HO_FAIL_UL_RXL	ACCUMULATION	INT8	H3122C:Failed Outgoing Internal Inter-Cell Handovers (Uplink Strength)	B1275071427.C12 78079517	Sum	hucsvbh, huctvbh
RECON_SUCC_MS_RPT_ABNRM_REL_NO_ACT	ACCUMULATION	INT8	H312Dd:Failed Outgoing Internal Inter-Cell Handovers (Reconnection to Old Channels) (Abnormal Release, No Activity on the Radio Path)	B1275071427.C12 78079477	Sum	hucsvbh, huctvbh
RECONN_SUCC_MS_RPT_ABNORM_REL_CHN	ACCUMULATION	INT8	H312Db:Failed Outgoing Internal Inter-Cell Handovers (Reconnection to Old Channels) (Abnormal Release, Channel Unacceptable)	B1275071427.C12 78079475	Sum	hucsvbh, huctvbh
RECONN_SUCC_MS_RPT_ABNORM_REL_EXP	ACCUMULATION	INT8	H312Dc:Failed Outgoing Internal Inter-Cell Handovers (Reconnection to Old Channels) (Abnormal Release, Timer Expired)	B1275071427.C12 78079476	Sum	hucsvbh, huctvbh
RECONN_SUCC_MS_RPT_ABNORM_REL_UN	ACCUMULATION	INT8	H312Da:Failed Outgoing Internal Inter-Cell Handovers (Reconnection	B1275071427.C12 78079474	Sum	hucsvbh, huctvbh

			to Old Channels) (Abnormal Release, Unspecified)			
RECONN_SUC C_MS_RPT_C_ CLR	ACCUMULA TION	INT8	H312Di:Failed Outgoing Internal Inter- Cell Handovers (Reconnection to Old Channels) (Call Already Cleared)	B1275071427.C12 78079482	Sum	hucsvbh, huctvbh
RECONN_SUC C_MS_RPT_C_ H_MODE	ACCUMULA TION	INT8	H312Dg:Failed Outgoing Internal Inter- Cell Handovers (Reconnection to Old Channels) (Channel Mode Unavailable)	B1275071427.C12 78079480	Sum	hucsvbh, huctvbh
RECONN_SUC C_MS_RPT_C_ ONDIT	ACCUMULA TION	INT8	H312Dn:Failed Outgoing Internal Inter- Cell Handovers (Reconnection to Old Channels) (Conditional IE Error)	B1275071427.C12 78079487	Sum	hucsvbh, huctvbh
RECONN_SUC C_MS_RPT_FR EQ	ACCUMULA TION	INT8	H312Dh:Failed Outgoing Internal Inter- Cell Handovers (Reconnection to Old Channels)	B1275071427.C12 78079481	Sum	hucsvbh, huctvbh

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			(Frequency Unavailable)			
RECONN_SUC C_MS_RPT_H O_TA	ACCUMULA TION	INT8	H312Df:Failed Outgoing Internal Inter- Cell Handovers (Reconnection to Old Channels) (Handover Failed, Timing Advance out of Range)	B1275071427.C12 78079479	Sum	hucsvbh, huctvbh
RECONN_SUC C_MS_RPT_IN V_MAN	ACCUMULA TION	INT8	H312Dk:Failed Outgoing Internal Inter- Cell Handovers (Reconnection to Old Channels) (Invalid Mandatory Information)	B1275071427.C12 78079484	Sum	hucsvbh, huctvbh
RECONN_SUC C_MS_RPT_M _T_NC	ACCUMULA TION	INT8	H312Dm:Failed Outgoing Internal Inter- Cell Handovers (Reconnection to Old Channels) (Message Type Not Compatible with Protocol State)	B1275071427.C12 78079486	Sum	hucsvbh, huctvbh
RECONN_SUC C_MS_RPT_M _T_NE	ACCUMULA TION	INT8	H312Dl:Failed Outgoing Internal Inter- Cell Handovers (Reconnection to Old Channels) (Message Type Non-existent or	B1275071427.C12 78079485	Sum	hucsvbh, huctvbh

			Not Implemented)			
RECONN_SUC C_MS_RPT_N O_CA	ACCUMULA TION	INT8	H312Do:Failed Outgoing Internal Inter- Cell Handovers (Reconnection to Old Channels) (No Cell Allocation Available)	B1275071427.C12 78079488	Sum	hucsvbh, huctvbh
RECONN_SUC C_MS_RPT_O THER	ACCUMULA TION	INT8	H312Dq:Failed Outgoing Internal Inter- Cell Handovers (Reconnection to Old Channels) (Other Causes)	B1275071427.C12 78079490	Sum	hucsvbh, huctvbh
RECONN_SUC C_MS_RPT_PR EEMPT	ACCUMULA TION	INT8	H312De:Failed Outgoing Internal Inter- Cell Handovers (Reconnection to Old Channels) (Preemptive Release)	B1275071427.C12 78079478	Sum	hucsvbh, huctvbh
RECONN_SUC C_MS_RPT_PR OTOCL	ACCUMULA TION	INT8	H312Dp:Failed Outgoing Internal Inter- Cell Handovers (Reconnection to Old Channels) (Protocol Error Unspecified)	B1275071427.C12 78079489	Sum	hucsvbh, huctvbh
RECONN_SUC	ACCUMULA	INT8	H312Dj:Failed	B1275071427.C12	Sum	hucsvbh,

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C_MS_RPT_SEMANT	TION		Outgoing Internal Inter-Cell Handovers (Reconnection to Old Channels) (Semantically Incorrect Message)	78079483		huctvbh
SD_NOT_INCLUDE_DR_1800_1800	ACCUMULATION	INT8	H3120X:Failed Outgoing Internal Inter-Cell Handovers (SDCCH) (Excluding Directed Retry) (1800/1900-1800/1900)	B1275071427.C12 78079450	Sum	hucsvbh, huctvbh
SD_NOT_INCLUDE_DR_1800_900	ACCUMULATION	INT8	H3120Z:Failed Outgoing Internal Inter-Cell Handovers (SDCCH) (Excluding Directed Retry) (1800/1900-900/850)	B1275071427.C12 78079452	Sum	hucsvbh, huctvbh
SD_NOT_INCLUDE_DR_900_1800	ACCUMULATION	INT8	H3120Y:Failed Outgoing Internal Inter-Cell Handovers (SDCCH) (Excluding Directed Retry) (900/850-1800/1900)	B1275071427.C12 78079451	Sum	hucsvbh, huctvbh
SD_NOT_INCLUDE_DR_900_900	ACCUMULATION	INT8	H3120W:Failed Outgoing Internal Inter-Cell Handovers (SDCCH) (Excluding Directed Retry)	B1275071427.C12 78079449	Sum	hucsvbh, huctvbh

			(900/850-900/850)			
TCHF_NOT_INCLUE_DR_1800_1800	ACCUMULATION	INT8	H3127X:Failed Outgoing Internal Inter-Cell Handovers (TCHF) (Excluding Directed Retry) (1800/1900-1800/1900)	B1275071427.C1278079454	Sum	hucsvbh, huctvbh
TCHF_NOT_INCLUE_DR_1800_900	ACCUMULATION	INT8	H3127Z:Failed Outgoing Internal Inter-Cell Handovers (TCHF) (Excluding Directed Retry) (1800/1900-900/850)	B1275071427.C1278079456	Sum	hucsvbh, huctvbh
TCHF_NOT_INCLUE_DR_900_1800	ACCUMULATION	INT8	H3127Y:Failed Outgoing Internal Inter-Cell Handovers (TCHF) (Excluding Directed Retry) (900/850-1800/1900)	B1275071427.C1278079455	Sum	hucsvbh, huctvbh
TCHF_NOT_INCLUE_DR_900_900	ACCUMULATION	INT8	H3127W:Failed Outgoing Internal Inter-Cell Handovers (TCHF) (Excluding Directed Retry) (900/850-900/850)	B1275071427.C1278079453	Sum	hucsvbh, huctvbh

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TCHH_NOT_I NCLUDE_DR_ 1800_1800	ACCUMULA TION	INT8	H3128X:Failed Outgoing Internal Inter- Cell Handovers (TCHH) (Excluding Directed Retry) (1800/1900-180 0/1900)	B1275071427.C12 78079458	Sum	hucsvbh, huctvbh
TCHH_NOT_I NCLUDE_DR_ 1800_900	ACCUMULA TION	INT8	H3128Z:Failed Outgoing Internal Inter- Cell Handovers (TCHH) (Excluding Directed Retry) (1800/1900-900 /850)	B1275071427.C12 78079460	Sum	hucsvbh, huctvbh
TCHH_NOT_I NCLUDE_DR_ 900_1800	ACCUMULA TION	INT8	H3128Y:Failed Outgoing Internal Inter- Cell Handovers (TCHH) (Excluding Directed Retry) (900/850-1800/ 1900)	B1275071427.C12 78079459	Sum	hucsvbh, huctvbh
TCHH_NOT_I NCLUDE_DR_ 900_900	ACCUMULA TION	INT8	H3128W:Failed Outgoing Internal Inter- Cell Handovers (TCHH) (Excluding Directed Retry) (900/850-900/8 50)	B1275071427.C12 78079457	Sum	hucsvbh, huctvbh

### 7.9.98 Cell.Huawei.GSM.Outgo\_int\_intercell\_HO\_overview

Outgoing internal intercell handover overview

KPI	Type	Data Type	Description	Derivation	Default Aggrega tor	Other Aggrega tors
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HO_CMD	ACCUMULATION	INT8	CH311:Outgoing Internal Inter-Cell Handover Commands	B1275071427.C12 78079531	Sum	hucsvbh, huctvbh
HO_FAIL_EXP	ACCUMULATION	INT8	CH312C:Failed Outgoing Internal Inter-Cell Handovers (Timer Expired)	B1275071427.C12 78079532	Sum	hucsvbh, huctvbh
HO_FAIL_RECONN_SUCC	ACCUMULATION	INT8	CH312D:Failed Outgoing Internal Inter-Cell Handovers (Reconnection to Old Channels)	B1275071427.C12 78079533	Sum	hucsvbh, huctvbh
HO_FAIL	ACCUMULATION	INT8	CH312:Failed Outgoing Internal Inter-Cell Handovers	B1275071427.C12 78079529	Sum	hucsvbh, huctvbh
HO_REQ	ACCUMULATION	INT8	CH310:Outgoing Internal Inter-Cell Handover Requests	B1275071427.C12 78079527	Sum	hucsvbh, huctvbh
HO_SUCC_BSC_LOOP	ACCUMULATION	INT8	CH370a: Number of Intra-BSC Outgoing Cell Handover Successes During BSC Loopback	B1275071427.C12 78079540	Sum	hucsvbh, huctvbh
HO_SUCC_BTS_LOOP	ACCUMULATION	INT8	CH370b: Number of Intra-BSC Outgoing Cell Handover Successes During BTS Loopback	B1275071427.C12 78079542	Sum	hucsvbh, huctvbh

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HO_SUCC_RATE_BSC_LOOP	INTENSITY	FLOAT	TH370a:Success Rate of Intra-BSC Outgoing Cell Handover During BSC Loopback	B1275071427.C12 78079541	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
HO_SUCC_RATE_BTS_LOOP	INTENSITY	FLOAT	TH370b:Success Rate of Intra-BSC Outgoing Cell Handover During BTS Loopback	B1275071427.C12 78079543	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
HO_SUCC_RATE	INTENSITY	FLOAT	TH313:Success Rate of Outgoing Internal Inter-Cell Handover	B1275071427.C12 78079530	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
HO_SUCC	ACCUMULATION	INT8	CH313:Successful Outgoing Internal Inter-Cell Handover	B1275071427.C12 78079528	Sum	hucsvbh, huctvbh
SUCC_HO_OVERLAID_TO_OVERLAID	ACCUMULATION	INT8	H313II:Number of Successful Outgoing Internal Inter-Cell Handovers (Overlaid to Overlaid)	B1275071427.C12 78079571	Sum	hucsvbh, huctvbh
SUCC_HO_OVERLAID_TO_UNDERLAID	ACCUMULATION	INT8	H313IO:Number of Successful Outgoing Internal Inter-Cell Handovers (Overlaid to Underlaid)	B1275071427.C12 78079570	Sum	hucsvbh, huctvbh
SUCC_HO_UNDERLAID_TO_OVERLAID	ACCUMULATION	INT8	H313OI:Number of Successful Outgoing	B1275071427.C12 78079569	Sum	hucsvbh, huctvbh

			Internal Inter-Cell Handovers (Underlaid to Overlaid)			
SUCC_HO_UN DERLAID_TO_ UNDERLAID	ACCUMULA TION	INT8	H313OO:Numb er of Successful Outgoing Internal Inter- Cell Handovers (Underlaid to Underlaid)	B1275071427.C12 78079568	Sum	hucsvbh, huctvbh

### 7.9.99 Cell.Huawei.GSM.Outgo\_int\_intercell\_HO\_reqs\_cmds

Outgoing internal intercell handover requests and commands

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
HO_CMD_BETT ER_CELL	ACCUMULA TION	INT8	H311F:Outgoi ng Internal Inter-Cell Handover Commands (Better Cell)	B1275071427.C1 278079508	Sum	hucsvbh, huctvbh
HO_CMD_BSC_ LOOP	ACCUMULA TION	INT8	H311Aa:Outg oing Internal Inter-Cell Handover Command (BSC LOOP)	B1275071427.C1 278079536	Sum	hucsvbh, huctvbh
HO_CMD_BTS_ LOOP	ACCUMULA TION	INT8	H311Ab:Outg oing Internal Inter-Cell Handover Command (BTS LOOP)	B1275071427.C1 278079537	Sum	hucsvbh, huctvbh
HO_CMD_DL_Q	ACCUMULA	INT8	H311B:Outgoi	B1275071427.C1	Sum	hucsvbh,

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LTY	TION		ng Internal Inter-Cell Handover Commands (Downlink Quality)	278079504		huctvbh
HO_CMD_DL_RXL	ACCUMULATION	INT8	H311D:Outgoing Internal Inter-Cell Handover Commands (Downlink Strength)	B1275071427.C1 278079506	Sum	hucsvbh, huctvbh
HO_CMD_DR_1800_1800	ACCUMULATION	INT8	H3111X:Outgoing Internal Inter-Cell Handover Commands (Directed Retry) (1800/1900-1800/1900)	B1275071427.C1 278079446	Sum	hucsvbh, huctvbh
HO_CMD_DR_1800_900	ACCUMULATION	INT8	H3111Z:Outgoing Internal Inter-Cell Handover Commands (Directed Retry) (1800/1900-900/850)	B1275071427.C1 278079448	Sum	hucsvbh, huctvbh
HO_CMD_DR_900_1800	ACCUMULATION	INT8	H3111Y:Outgoing Internal Inter-Cell Handover Commands (Directed Retry) (900/850-1800/1900)	B1275071427.C1 278079447	Sum	hucsvbh, huctvbh
HO_CMD_DR_900_900	ACCUMULATION	INT8	H3111W:Outgoing Internal Inter-Cell	B1275071427.C1 278079445	Sum	hucsvbh, huctvbh

			Handover Commands (Directed Retry) (900/850-900/850)			
HO_CMD_DUBAND_INNER_OUTTER	ACCUMULATION	INT8	H311N: Number of Intra-BSC Outgoing Cell Handover Commands (Overlaid to Underlaid Subcell Handover in Enhanced Dualband Network)	B1275071427.C1 278079549	Sum	hucsvbh, huctvbh
HO_CMD_DUBAND_INNER_USER_MOVE	ACCUMULATION	INT8	H311O: Number of Intra-BSC Outgoing Cell Handover Commands (MS Handover in the Overlaid Subcell Covered by the Enhanced Dualband Network)	B1275071427.C1 278079550	Sum	hucsvbh, huctvbh
HO_CMD_DUBAND_OUTTER_INNER	ACCUMULATION	INT8	H311M: Number of Intra-BSC Outgoing Cell Handover Commands (Underlaid to Overlaid Subcell Handover in	B1275071427.C1 278079548	Sum	hucsvbh, huctvbh

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			Enhanced Dualband Network)			
HO_CMD_LOAD	ACCUMULATION	INT8	H311G:Outgoing Internal Inter-Cell Handover Commands (Load)	B1275071427.C1 278079509	Sum	hucsvbh, huctvbh
HO_CMD_MSC_INTERV	ACCUMULATION	INT8	H311I:Outgoing Internal Inter-Cell Handover Commands (MSC Intervention)	B1275071427.C1 278079511	Sum	hucsvbh, huctvbh
HO_CMD_OM_INTERV	ACCUMULATION	INT8	H311J:Outgoing Internal Inter-Cell Handover Commands (OM Intervention)	B1275071427.C1 278079512	Sum	hucsvbh, huctvbh
HO_CMD_OTHER	ACCUMULATION	INT8	H311L:Outgoing Internal Inter-Cell Handover Commands (Other Causes)	B1275071427.C1 278079514	Sum	hucsvbh, huctvbh
HO_CMD_OVERLAID_TO_OVERLAID	ACCUMULATION	INT8	H311II:Number of Outgoing Internal Inter-Cell Handover Commands (Overlaid to Overlaid)	B1275071427.C1 278079563	Sum	hucsvbh, huctvbh
HO_CMD_OVERLAID_TO_UNDERLAID	ACCUMULATION	INT8	H311IO:Number of Outgoing Internal Inter-Cell Handover	B1275071427.C1 278079562	Sum	hucsvbh, huctvbh

			Commands (Overlaid to Underlaid)			
HO_CMD_RAPID_LEV_DROP	ACCUMULATION	INT8	H311H:Outgoing Internal Inter-Cell Handover Commands (Rapid Level Drop)	B1275071427.C1 278079510	Sum	hucsvbh, huctvbh
HO_CMD_SD_NOT_INCL_DR_1800_1800	ACCUMULATION	INT8	H3110X:Outgoing Internal Inter-Cell Handover Commands (SDCCH) (Excluding Directed Retry) (1800/1900-1800/1900)	B1275071427.C1 278079434	Sum	hucsvbh, huctvbh
HO_CMD_SD_NOT_INCL_DR_1800_900	ACCUMULATION	INT8	H3110Z:Outgoing Internal Inter-Cell Handover Commands (SDCCH) (Excluding Directed Retry) (1800/1900-900/850)	B1275071427.C1 278079436	Sum	hucsvbh, huctvbh
HO_CMD_SD_NOT_INCL_DR_900_1800	ACCUMULATION	INT8	H3110Y:Outgoing Internal Inter-Cell Handover Commands (SDCCH) (Excluding	B1275071427.C1 278079435	Sum	hucsvbh, huctvbh

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			Directed Retry) (900/850-1800 /1900)			
HO_CMD_SD_N OT_INCL_DR_90 0_900	ACCUMULA TION	INT8	H3110W:Outg oing Internal Inter-Cell Handover Command (SDCCH) (Excluding Directed Retry) (900/850-900/ 850)	B1275071427.C1 278079433	Sum	hucsvbh, huctvbh
HO_CMD_SDCC H_BETTER_CEL L_DR	ACCUMULA TION	INT8	H3110N:Num ber of Outgoing Internal Inter- Cell Handover Commands (SDCCH) (Better Cell Directed Retry)	B1275071427.C1 282412171	Sum	hucsvbh, huctvbh
HO_CMD_TA	ACCUMULA TION	INT8	H311E:Outgoi ng Internal Inter-Cell Handover Commands (Timing Advance)	B1275071427.C1 278079507	Sum	hucsvbh, huctvbh
HO_CMD_TCHF _NOT_INCL_DR _1800_1800	ACCUMULA TION	INT8	H3117X:Outg oing Internal Inter-Cell Handover Commands (TCHF) (Excluding Directed Retry) (1800/1900-18 00/1900)	B1275071427.C1 278079438	Sum	hucsvbh, huctvbh

HO_CMD_TCHF _NOT_INCL_DR _1800_900	ACCUMULATION	INT8	H3117Z:Outgoing Internal Inter-Cell Handover Commands (TCHF) (Excluding Directed Retry) (1800/1900-900/850)	B1275071427.C1 278079440	Sum	hucsvbh, huctvbh
HO_CMD_TCHF _NOT_INCL_DR _900_1800	ACCUMULATION	INT8	H3117Y:Outgoing Internal Inter-Cell Handover Commands (TCHF) (Excluding Directed Retry) (900/850-1800/1900)	B1275071427.C1 278079439	Sum	hucsvbh, huctvbh
HO_CMD_TCHF _NOT_INCL_DR _900_900	ACCUMULATION	INT8	H3117W:Outgoing Internal Inter-Cell Handover Commands (TCHF) (Excluding Directed Retry) (900/850-900/850)	B1275071427.C1 278079437	Sum	hucsvbh, huctvbh
HO_CMD_TCHH _NOT_INCL_DR _1800_1800	ACCUMULATION	INT8	H3118X:Outgoing Internal Inter-Cell Handover Commands (TCHH) (Excluding	B1275071427.C1 278079442	Sum	hucsvbh, huctvbh

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			Directed Retry) (1800/1900-18 00/1900)			
HO_CMD_TCHH _NOT_INCL_DR _1800_900	ACCUMULA TION	INT8	H3118Z:Outg oing Internal Inter-Cell Handover Commands (TCHH) (Excluding Directed Retry) (1800/1900-90 0/850)	B1275071427.C1 278079444	Sum	hucsvbh, huctvbh
HO_CMD_TCHH _NOT_INCL_DR _900_1800	ACCUMULA TION	INT8	H3118Y:Outg oing Internal Inter-Cell Handover Commands (TCHH) (Excluding Directed Retry) (900/850-1800 /1900)	B1275071427.C1 278079443	Sum	hucsvbh, huctvbh
HO_CMD_TCHH _NOT_INCL_DR _900_900	ACCUMULA TION	INT8	H3118W:Outg oing Internal Inter-Cell Handover Commands (TCHH) (Excluding Directed Retry) (900/850-900/ 850)	B1275071427.C1 278079441	Sum	hucsvbh, huctvbh
HO_CMD_UL_Q LTY	ACCUMULA TION	INT8	H311A:Outgo ing Internal Inter-Cell Handover Commands (Uplink	B1275071427.C1 278079503	Sum	hucsvbh, huctvbh

			Quality)			
HO_CMD_UL_RXL	ACCUMULATION	INT8	H311C:Outgoing Internal Inter-Cell Handover Commands (Uplink Strength)	B1275071427.C1 278079505	Sum	hucsvbh, huctvbh
HO_CMD_UNDERLAID_TO_OVERLAID	ACCUMULATION	INT8	H311OI: Number of Outgoing Internal Inter-Cell Handover Commands (Underlaid to Overlaid)	B1275071427.C1 278079561	Sum	hucsvbh, huctvbh
HO_CMD_UNDERLAID_TO_UNDERLAID	ACCUMULATION	INT8	H311OO: Number of Outgoing Internal Inter-Cell Handover Commands (Underlaid to Underlaid)	B1275071427.C1 278079560	Sum	hucsvbh, huctvbh
HO_REQ_BETTER_CELL	ACCUMULATION	INT8	H310F:Outgoing Internal Inter-Cell Handover Requests (Better Cell)	B1275071427.C1 278079496	Sum	hucsvbh, huctvbh
HO_REQ_BSC_LOOP	ACCUMULATION	INT8	H370a:Outgoing Internal Inter-Cell Handover Requests (BSC LOOP)	B1275071427.C1 278079534	Sum	hucsvbh, huctvbh
HO_REQ_BTS_LOOP	ACCUMULATION	INT8	H370b:Outgoing Internal	B1275071427.C1 278079535	Sum	hucsvbh, huctvbh

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			Inter-Cell Handover Requests (BTS LOOP)			
HO_REQ_DL_QUALITY	ACCUMULATION	INT8	H310B:Outgoing Internal Inter-Cell Handover Requests (Downlink Quality)	B1275071427.C1 278079492	Sum	hucsvbh, huctvbh
HO_REQ_DL_RXL	ACCUMULATION	INT8	H310D:Outgoing Internal Inter-Cell Handover Requests (Downlink Strength)	B1275071427.C1 278079494	Sum	hucsvbh, huctvbh
HO_REQ_DR_1800_1800	ACCUMULATION	INT8	H3101X:Outgoing Internal Inter-Cell Handover Requests (Directed Retry) (1800/1900-1800/1900)	B1275071427.C1 278079430	Sum	hucsvbh, huctvbh
HO_REQ_DR_1800_900	ACCUMULATION	INT8	H3101Z:Outgoing Internal Inter-Cell Handover Requests (Directed Retry) (1800/1900-900/850)	B1275071427.C1 278079432	Sum	hucsvbh, huctvbh
HO_REQ_DR_900_1800	ACCUMULATION	INT8	H3101Y:Outgoing Internal Inter-Cell Handover Requests (Directed Retry)	B1275071427.C1 278079431	Sum	hucsvbh, huctvbh

			(900/850-1800/1900)			
HO_REQ_DR_900_900	ACCUMULATION	INT8	H3101W:Outgoing Internal Inter-Cell Handover Requests (Directed Retry) (900/850-900/850)	B1275071427.C1 278079429	Sum	hucsvbh, huctvbh
HO_REQ_DUBAND_INNER_OUTTER	ACCUMULATION	INT8	H310N:Number of Intra-BSC Outgoing Cell Handover Requests (Overlaid to Underlaid Subcell in Enhanced Dualband Network)	B1275071427.C1 278079546	Sum	hucsvbh, huctvbh
HO_REQ_DUBAND_INNER_USER_MOVE	ACCUMULATION	INT8	H310O:Number of Intra-BSC Outgoing Cell Handover Requests (MS Handover in the Overlaid Subcell Covered by the Enhanced Dualband Network)	B1275071427.C1 278079547	Sum	hucsvbh, huctvbh
HO_REQ_DUBAND_OUTTER_INNER	ACCUMULATION	INT8	H310M:Number of Intra-BSC Outgoing Cell Handover Requests	B1275071427.C1 278079545	Sum	hucsvbh, huctvbh

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			(Underlaid to Overlaid Subcell in Enhanced Dualband Network)			
HO_REQ_LOAD	ACCUMULATION	INT8	H310G:Outgoing Internal Inter-Cell Handover Requests (Load)	B1275071427.C1 278079497	Sum	hucsvbh, huctvbh
HO_REQ_MSC_INTERV	ACCUMULATION	INT8	H310I:Outgoing Internal Inter-Cell Handover Requests (MSC Intervention)	B1275071427.C1 278079499	Sum	hucsvbh, huctvbh
HO_REQ_OM_INTERV	ACCUMULATION	INT8	H310J:Outgoing Internal Inter-Cell Handover Requests (OM Intervention)	B1275071427.C1 278079500	Sum	hucsvbh, huctvbh
HO_REQ_OTHER	ACCUMULATION	INT8	H310L:Outgoing Internal Inter-Cell Handover Requests (Other Causes)	B1275071427.C1 278079502	Sum	hucsvbh, huctvbh
HO_REQ_RAPID_LEV_DROP	ACCUMULATION	INT8	H310H:Outgoing Internal Inter-Cell Handover Requests (Rapid Level Drop)	B1275071427.C1 278079498	Sum	hucsvbh, huctvbh
HO_REQ_SD_NOT_INCL_DR_1800_1800	ACCUMULATION	INT8	H3100X:Outgoing Internal Inter-Cell	B1275071427.C1 278079418	Sum	hucsvbh, huctvbh

			Handover Requests (SDCCH) (Excluding Directed Retry) (1800/1900-1800/1900)			
HO_REQ_SD_NOT_INCL_DR_1800_900	ACCUMULATION	INT8	H3100Z:Outgoing Internal Inter-Cell Handover Requests (SDCCH) (Excluding Directed Retry) (1800/1900-900/850)	B1275071427.C1 278079420	Sum	hucsvbh, huctvbh
HO_REQ_SD_NOT_INCL_DR_900_1800	ACCUMULATION	INT8	H3100Y:Outgoing Internal Inter-Cell Handover Requests (SDCCH) (Excluding Directed Retry) (900/850-1800/1900)	B1275071427.C1 278079419	Sum	hucsvbh, huctvbh
HO_REQ_SD_NOT_INCL_DR_900_900	ACCUMULATION	INT8	H3100W:Outgoing Internal Inter-Cell Handover Requests (SDCCH) (Excluding Directed Retry) (900/850-900/	B1275071427.C1 278079417	Sum	hucsvbh, huctvbh

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			850)			
HO_REQ_TA	ACCUMULATION	INT8	H310E:Outgoing Internal Inter-Cell Handover Requests (Timing Advance)	B1275071427.C1 278079495	Sum	hucsvbh, huctvbh
HO_REQ_TCHF_NOT_INCL_DR_1800_1800	ACCUMULATION	INT8	H3107X:Outgoing Internal Inter-Cell Handover Requests (TCHF) (Excluding Directed Retry) (1800/1900-1800/1900)	B1275071427.C1 278079422	Sum	hucsvbh, huctvbh
HO_REQ_TCHF_NOT_INCL_DR_1800_900	ACCUMULATION	INT8	H3107Z:Outgoing Internal Inter-Cell Handover Requests (TCHF) (Excluding Directed Retry) (1800/1900-900/850)	B1275071427.C1 278079424	Sum	hucsvbh, huctvbh
HO_REQ_TCHF_NOT_INCL_DR_900_1800	ACCUMULATION	INT8	H3107Y:Outgoing Internal Inter-Cell Handover Requests (TCHF) (Excluding Directed Retry) (900/850-1800/1900)	B1275071427.C1 278079423	Sum	hucsvbh, huctvbh
HO_REQ_TCHF_NOT_INCL_DR_	ACCUMULATION	INT8	H3107W:Outgoing Internal	B1275071427.C1 278079421	Sum	hucsvbh, huctvbh

900_900			Inter-Cell Handover Requests (TCHF) (Excluding Directed Retry) (900/850-900/850)			
HO_REQ_TCHH_NOT_INCL_DR_1800_1800	ACCUMULATION	INT8	H3108X:Outgoing Internal Inter-Cell Handover Requests (TCHH) (Excluding Directed Retry) (1800/1900-1800/1900)	B1275071427.C1 278079426	Sum	hucsvbh, huctvbh
HO_REQ_TCHH_NOT_INCL_DR_1800_900	ACCUMULATION	INT8	H3108Z:Outgoing Internal Inter-Cell Handover Requests (TCHH) (Excluding Directed Retry) (1800/1900-900/850)	B1275071427.C1 278079428	Sum	hucsvbh, huctvbh
HO_REQ_TCHH_NOT_INCL_DR_900_1800	ACCUMULATION	INT8	H3108Y:Outgoing Internal Inter-Cell Handover Requests (TCHH) (Excluding Directed Retry)	B1275071427.C1 278079427	Sum	hucsvbh, huctvbh

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			(900/850-1800/1900)			
HO_REQ_TCHH_NOT_INCL_DR_900_900	ACCUMULATION	INT8	H3108W:Outgoing Internal Inter-Cell Handover Requests (TCHH) (Excluding Directed Retry) (900/850-900/850)	B1275071427.C1 278079425	Sum	hucsvbh, huctvbh
HO_REQ_UL_QUALITY	ACCUMULATION	INT8	H310A:Outgoing Internal Inter-Cell Handover Requests (Uplink Quality)	B1275071427.C1 278079491	Sum	hucsvbh, huctvbh
HO_REQ_UL_RXL	ACCUMULATION	INT8	H310C:Outgoing Internal Inter-Cell Handover Requests (Uplink Strength)	B1275071427.C1 278079493	Sum	hucsvbh, huctvbh
HO_RQ_OVERLAID_TO_OVERLAID	ACCUMULATION	INT8	H310II: Number of Outgoing Internal Inter-Cell Handover Requests (Overlaid to Overlaid)	B1275071427.C1 278079559	Sum	hucsvbh, huctvbh
HO_RQ_OVERLAID_TO_UNDERLAID	ACCUMULATION	INT8	H310IO: Number of Outgoing Internal Inter-Cell Handover Requests (Overlaid to Underlaid)	B1275071427.C1 278079558	Sum	hucsvbh, huctvbh

HO_RQ_SDCCH_BETTER_CELL_DR	ACCUMULATION	INT8	H3100N: Number of Outgoing Internal Inter-Cell Handover Requests (SDCCH) (Better Cell Directed Retry)	B1275071427.C1 282412170	Sum	hucsvbh, huctvbh
HO_RQ_UNDERLAID_TO_OVERLAID	ACCUMULATION	INT8	H3100I: Number of Outgoing Internal Inter-Cell Handover Requests (Underlaid to Overlaid)	B1275071427.C1 278079557	Sum	hucsvbh, huctvbh
HO_RQ_UNDERLAID_TO_UNDERLAID	ACCUMULATION	INT8	H3100O: Number of Outgoing Internal Inter-Cell Handover Requests (Underlaid to Underlaid)	B1275071427.C1 278079556	Sum	hucsvbh, huctvbh
Out_int_Inter_HO_cmds_EDGE_cov	ACCUMULATION	INTEGER	H311K: Outgoing Internal Inter-Cell Handover Commands (EDGE cov)	B1275071427.C1 278079513	Sum	hucsvbh, huctvbh
Out_int_Inter_HO_reqs_EDGE_cov	ACCUMULATION	INTEGER	H310K: Outgoing Internal Inter-Cell Handover Requests (EDGE cov)	B1275071427.C1 278079501	Sum	hucsvbh, huctvbh

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Out_Internal_InterCellHOCmdTCH	ACCUMULATION	INTEGER	CH3119A: Number of Outgoing Internal Inter-Cell Handover Commands(TCH)	B1275071427.C1282448081	Sum	
Out_Internal_InterCellHOReqTCH	ACCUMULATION	INTEGER	CH3109A: Number of Outgoing Internal Inter-Cell Handover Requests(TCH)	B1275071427.C1282448080	Sum	

### 7.9.100Cell.Huawei.GSM.Outgo\_interrat\_HO\_reqs\_cmds\_TDD

Outgoing interRAT handover requests, commands for TDD

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
HO_CMD_NOT_INCLUDE_DR_SD	ACCUMULATION	INT8	H35101:Outgoing Inter-RAT Inter-Cell Handover Commands (SDCCH) (Excluding Directed Retry) (TDD)	B1275071440.C1278092420	Sum	
HO_CMD_TCHF	ACCUMULATION	INT8	H35171:Outgoing Inter-RAT Inter-Cell Handover Commands (TCHF) (TDD)	B1275071440.C1278092421	Sum	
HO_CMD_TCHH	ACCUMULATION	INT8	H35181:Outgoing Inter-RAT Inter-Cell Handover Commands (TCHH) (TDD)	B1275071440.C1278092422	Sum	

HO_REQ_NOT_INCLUDE_DR_SD	ACCUMULATION	INT8	H35001:Outgoing Inter-RAT Inter-Cell Handover Requests (SDCCH) (Excluding Directed Retry) (TDD)	B1275071440.C1278092417	Sum	
HO_REQ_TCHF	ACCUMULATION	INT8	H35071:Outgoing Inter-RAT Inter-Cell Handover Requests (TCHF) (TDD)	B1275071440.C1278092418	Sum	
HO_REQ_TCHH	ACCUMULATION	INT8	H35081:Outgoing Inter-RAT Inter-Cell Handover Requests (TCHH) (TDD)	B1275071440.C1278092419	Sum	
MS_SUPPORT_FDD	ACCUMULATION	INT8	CH354A: Number Of MS support FDD	B1275071440.C1278092477	Sum	
SUPPORT_TDD_MS_NUM	ACCUMULATION	INT8	CH353A1: Number Of MS support TDD	B1275071440.C1278092476	Sum	

### 7.9.101 Cell.Huawei.GSM.Outgo\_interrat\_HO\_reqs\_cmds

Outgoing interRAT handover requests and commands

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
HO_CMD_BSC_LOOP	ACCUMULATION	INT8	H351Aa: Number of Inter-System	B1275071431.C1278083478	Sum	hucsvbh, huctvbh

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			Outgoing Cell Handovers During BSC Loopback			
HO_CMD_BTS_LOOP	ACCUMULATION	INT8	H351Ab: Number of Inter-System Outgoing Cell Handovers During BTS Loopback	B1275071431.C127 8083479	Sum	hucsvbh, huctvbh
HO_CMD_NO_T_INCLUDE_DR_SD	ACCUMULATION	INT8	H3510: Outgoing Inter-RAT Inter-Cell Handover Commands (SDCCH) (Excluding Directed Retry)	B1275071431.C127 8083420	Sum	hucsvbh, huctvbh
HO_CMD_SD_CCH_DR	ACCUMULATION	INT8	H3510A: Outgoing Inter-RAT Inter-Cell Handover Commands (SDCCH) (Directed Retry)	B1275071431.C127 8083493	Sum	hucsvbh, huctvbh
HO_CMD_TCHF	ACCUMULATION	INT8	H3517: Outgoing Inter-RAT Inter-Cell Handover Commands (TCHF)	B1275071431.C127 8083421	Sum	hucsvbh, huctvbh
HO_CMD_TCHH	ACCUMULATION	INT8	H3518: Outgoing Inter-RAT Inter-Cell Handover Commands (TCHH)	B1275071431.C127 8083422	Sum	hucsvbh, huctvbh
HO_REQ_BSC_LOOP	ACCUMULATION	INT8	H353a: Number of Inter-RAT Outgoing Cell Handover	B1275071431.C127 8083476	Sum	hucsvbh, huctvbh

			Requests During BSC Loopback			
HO_REQ_BTS_LOOP	ACCUMULATION	INT8	H353b: Number of Inter-RAT Outgoing Cell Handover Requests During BTS Loopback	B1275071431.C1278083477	Sum	hucsvbh, huctvbh
HO_REQ_NOT_INCLUDE_DR_SD	ACCUMULATION	INT8	H3500: Outgoing Inter-RAT Inter-Cell Handover Requests (SDCCH) (Excluding Directed Retry)	B1275071431.C1278083417	Sum	hucsvbh, huctvbh
HO_REQ_TCHF	ACCUMULATION	INT8	H3507: Outgoing Inter-RAT Inter-Cell Handover Requests (TCHF)	B1275071431.C1278083418	Sum	hucsvbh, huctvbh
HO_REQ_TCHH	ACCUMULATION	INT8	H3508: Outgoing Inter-RAT Inter-Cell Handover Requests (TCHH)	B1275071431.C1278083419	Sum	hucsvbh, huctvbh
HO_RQ_SDCCH_DR	ACCUMULATION	INT8	H3500A: Outgoing Inter-RAT Inter-Cell Handover Requests (SDCCH) (Directed Retry)	B1275071431.C1278083492	Sum	hucsvbh, huctvbh

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### 7.9.102Cell.Huawei.GSM.Outgoing\_inter\_BSC\_handovers

Measurement counters related to VGCS outgoing inter-BSC handovers.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ATT_OG_VGCS_TCH_HO	ACCUMULATION	INT8	A03486:Attempted Outgoing Inter-BSC Inter-Cell VGCS TCH Handovers	B1275071528.C1278180417	Sum	huctvbh
SUCC_OG_VGCS_TCH_HO_RATE	INTENSITY	FLOAT	A03489:Successful Inter-BSC Outgoing Cell VGCS TCH Handover Rate	B1275071528.C1278180420	Average	huctvbh, Sum, Minimum, Maximum
SUCC_OG_VGCS_TCH_HO	ACCUMULATION	INT8	A03487:Successful Outgoing Inter-BSC Inter-Cell VGCS TCH Handovers	B1275071528.C1278180418	Sum	huctvbh
SUCC_OG_VGCS_TCH_RHO_RATE	INTENSITY	FLOAT	A03490:Successful Inter-BSC Outgoing Cell VGCS TCH Radio Handover Rate	B1275071528.C1278180421	Average	huctvbh, Sum, Minimum, Maximum
VGCS_TCH_HO	ACCUMULATION	INT8	A03488:Inter-BSC Inter-Cell VGCS TCH Handovers	B1275071528.C1278180419	Sum	huctvbh

### 7.9.103Cell.Huawei.GSM.Outgoing\_interrat\_HO\_fails\_TDD

Outgoing interRAT handover failures for TDD

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CLR_CMD_EQUIP_FAIL	ACCUMULATION	INT8	H352Hd1:Failed Outgoing	B1275071440.C1278092460	Sum	

			Inter-RAT Inter-Cell Handovers (Clear Commands Sent By MSC) (Equipment Failure) (TDD)			
CLR_CMD_IN VALID_MSG	ACCUMULA TION	INT8	H352Hf1:Failed Outgoing Inter- RAT Inter-Cell Handovers (Clear Commands Sent By MSC) (Invalid Message) (TDD)	B1275071440.C12 78092462	Sum	
CLR_CMD_PR EEMPTION	ACCUMULA TION	INT8	H352He1:Failed Outgoing Inter- RAT Inter-Cell Handovers (Clear Commands Sent By MSC) (Preemption) (TDD)	B1275071440.C12 78092461	Sum	
CLR_CMD_PR OTOCOL_ERR	ACCUMULA TION	INT8	H352Hg1:Faile d Outgoing Inter-RAT Inter-Cell Handovers (Clear Commands Sent By MSC) (Protocol Error between BSS and MSC) (TDD)	B1275071440.C12 78092463	Sum	

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CLR_CMD_RADIO_INTF_FAIL	ACCUMULATION	INT8	H352Hb1:Failed Outgoing Inter-RAT Inter-Cell Handovers (Clear Commands Sent By MSC) (Radio Interface Failure) (TDD)	B1275071440.C1278092458	Sum	
CLR_CMD_RADIO_INTF_MSG_FAIL	ACCUMULATION	INT8	H352Ha1:Failed Outgoing Inter-RAT Inter-Cell Handovers (Clear Commands Sent By MSC) (Radio Interface Message Failure) (TDD)	B1275071440.C1278092457	Sum	
HO_FAIL_A_INTERFACE_FAIL	ACCUMULATION	INT8	H352G1:Failed Outgoing Inter-RAT Inter-Cell Handovers (A Interface Failure) (TDD)	B1275071440.C1278092465	Sum	
HO_FAIL_CLR_CMD_OM_INTERV	ACCUMULATION	INT8	H352Hc1:Failed Outgoing Inter-RAT Inter-Cell Handovers (Clear Commands Sent By MSC) (OM Intervention) (TDD)	B1275071440.C1278092459	Sum	
HO_FAIL_CLR_CMD_OTHER	ACCUMULATION	INT8	H352Hh1:Failed Outgoing Inter-RAT Inter-Cell Handovers (Clear Commands Sent By MSC)	B1275071440.C1278092464	Sum	

			(Other Causes) (TDD)			
HO_FAIL_HO_REJ_EQUIP_FAILURE	ACCUMULATION	INT8	H352Kb1:Failed Outgoing Inter-RAT Inter-Cell Handovers (Handover Request Rejected) (Equipment Failure) (TDD)	B1275071440.C12 78092444	Sum	
HO_FAIL_HO_REJ_OM_INTERV	ACCUMULATION	INT8	H352Ka1:Failed Outgoing Inter-RAT Inter-Cell Handovers (Handover Request Rejected) (OM Intervention) (TDD)	B1275071440.C12 78092443	Sum	
HO_FAIL_HO_REJ_OTHER	ACCUMULATION	INT8	H352Kn1:Failed Outgoing Inter-RAT Inter-Cell Handovers (Handover Request Rejected) (Other Causes) (TDD)	B1275071440.C12 78092456	Sum	
HO_FAIL_HO_REJ_REQ_NO_SV	ACCUMULATION	INT8	H352Ki1:Failed Outgoing Inter-RAT Inter-Cell Handovers (Handover Request Rejected) (Requested Speech Version)	B1275071440.C12 78092451	Sum	

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			Unavailable) (TDD)			
HO_FAIL_MS_RPT_CALL_CLR	ACCUMULATION	INT8	H352Di1:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Call Already Cleared) (TDD)	B1275071440.C12 78092434	Sum	
HO_FAIL_MS_RPT_FREQ	ACCUMULATION	INT8	H352Dh1:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Frequency Unavailable) (TDD)	B1275071440.C12 78092433	Sum	
HO_FAIL_MS_RPT_HO_TA	ACCUMULATION	INT8	H352Df1:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Handover Failed, Timing Advance out of Range) (TDD)	B1275071440.C12 78092431	Sum	
HO_FAIL_MS_RPT_INV_MAND	ACCUMULATION	INT8	H352Dk1:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Invalid Mandatory	B1275071440.C12 78092436	Sum	

			Information) (TDD)			
HO_FAIL_MS_RPT_NO_CA	ACCUMULATION	INT8	H352Do1:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (No Cell Allocation Available) (TDD)	B1275071440.C12 78092440	Sum	
HO_FAIL_MS_RPT_NO_CH_MODE	ACCUMULATION	INT8	H352Dg1:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Channel Mode Unavailable) (TDD)	B1275071440.C12 78092432	Sum	
HO_FAIL_MS_RPT_OTHER	ACCUMULATION	INT8	H352Dq1:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Other Causes) (TDD)	B1275071440.C12 78092442	Sum	
HO_FAIL_MS_RPT_PROTOCL	ACCUMULATION	INT8	H352Dp1:Failed Outgoing Inter-RAT Inter-Cell Handovers	B1275071440.C12 78092441	Sum	

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			(Reconnection to Old Channels) (Protocol Error Unspecified) (TDD)			
HO_FAIL_MS_RPT_SEMANT	ACCUMULATION	INT8	H352Dj1:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Semantically Incorrect Message) (TDD)	B1275071440.C12 78092435	Sum	
HO_FAIL_NOT_INCLUDE_DR_SD	ACCUMULATION	INT8	H35201:Failed Outgoing Inter-RAT Inter-Cell Handovers (SDCCH) (Excluding Directed Retry) (TDD)	B1275071440.C12 78092423	Sum	
HO_FAIL_T7_EXP	ACCUMULATION	INT8	H352L1:Failed Outgoing Inter-RAT Inter-Cell Handovers (T7 Expired) (TDD)	B1275071440.C12 78092466	Sum	
HO_FAIL_T8_EXP	ACCUMULATION	INT8	H352C1:Failed Outgoing Inter-RAT Inter-Cell Handovers (T8 Expired) (TDD)	B1275071440.C12 78092467	Sum	
HO_FAIL_TCHF	ACCUMULATION	INT8	H35271:Failed Outgoing Inter-RAT Inter-Cell Handovers (TCHF) (TDD)	B1275071440.C12 78092424	Sum	
HO_FAIL_TCHH	ACCUMULATION	INT8	H35281:Failed Outgoing Inter-	B1275071440.C12 78092425	Sum	

			RAT Inter-Cell Handovers (TCHH) (TDD)			
HO_REJ_BSS_NOT_EQUIP	ACCUMULATION	INT8	H352Ke1:Failed Outgoing Inter-RAT Inter-Cell Handovers (Handover Request Rejected) (BSS not Equipped) (TDD)	B1275071440.C1278092447	Sum	
HO_REJ_CIPH_ALG_NOT_SUPPORTED	ACCUMULATION	INT8	H352Kj1:Failed Outgoing Inter-RAT Inter-Cell Handovers (Handover Request Rejected) (Ciphering Algorithm not Supported) (TDD)	B1275071440.C1278092452	Sum	
HO_REJ_CIR_POOL_MISMATCH	ACCUMULATION	INT8	H352Kh1:Failed Outgoing Inter-RAT Inter-Cell Handovers (Handover Request Rejected) (Circuit Pool Mismatch) (TDD)	B1275071440.C1278092450	Sum	
HO_REJ_INVALID_CELL	ACCUMULATION	INT8	H352Kf1:Failed Outgoing Inter-RAT Inter-Cell Handovers (Handover	B1275071440.C1278092448	Sum	

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			Request Rejected) (Invalid Cell) (TDD)			
HO_REJ_INV ILD_MSG	ACCUMULA TION	INT8	H352K11:Failed Outgoing Inter- RAT Inter-Cell Handovers (Handover Request Rejected) (Invalid Message) (TDD)	B1275071440.C12 78092454	Sum	
HO_REJ_NO_R ADIO_RES	ACCUMULA TION	INT8	H352Kc1:Failed Outgoing Inter- RAT Inter-Cell Handovers (Handover Request Rejected) (No Radio Resource Available) (TDD)	B1275071440.C12 78092445	Sum	
HO_REJ_PROT OCOL_ERR	ACCUMULA TION	INT8	H352Km1:Faile d Outgoing Inter-RAT Inter-Cell Handovers (Handover Request Rejected) (Protocol Error between BSS and MSC) (TDD)	B1275071440.C12 78092455	Sum	
HO_REJ_REQ NO_TER_RES	ACCUMULA TION	INT8	H352Kd1:Faile d Outgoing Inter-RAT Inter-Cell Handovers (Handover Request	B1275071440.C12 78092446	Sum	

			Rejected) (Requested Terrestrial Resource Unavailable) (TDD)			
HO_REJ_REQ_TRANS_UNAVL	ACCUMULATION	INT8	H352Kg1:Failed Outgoing Inter-RAT Inter-Cell Handovers (Handover Request Rejected) (Requested Transcoding/Rate Adaption Unavailable) (TDD)	B1275071440.C12 78092449	Sum	
HO_REJ_TERRCIR_ALRDY_ALLOC	ACCUMULATION	INT8	H352Kk1:Failed Outgoing Inter-RAT Inter-Cell Handovers (Handover Request Rejected) (Terrestrial circuit already allocated) (TDD)	B1275071440.C12 78092453	Sum	
MS_RPT_ABNORM_REL_CHN	ACCUMULATION	INT8	H352Db1:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Abnormal	B1275071440.C12 78092427	Sum	

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			Release, Channel Unacceptable) (TDD)			
MS_RPT_ABN ORM_REL_NO _ACT	ACCUMULA TION	INT8	H352Dd1:Faile d Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Abnormal Release, No Activity on the Radio Path) (TDD)	B1275071440.C12 78092429	Sum	
MS_RPT_ABN ORM_REL_T_E	ACCUMULA TION	INT8	H352Dc1:Failed Outgoing Inter- RAT Inter-Cell Handovers (Reconnection to Old Channels) (Abnormal Release, Timer Expired) (TDD)	B1275071440.C12 78092428	Sum	
MS_RPT_ABN ORM_REL_UN S	ACCUMULA TION	INT8	H352Da1:Failed Outgoing Inter- RAT Inter-Cell Handovers (Reconnection to Old Channels) (Abnormal Release, Unspecified) (TDD)	B1275071440.C12 78092426	Sum	
MS_RPT_CON DITION_IE_ER R	ACCUMULA TION	INT8	H352Dn1:Faile d Outgoing Inter-RAT Inter-Cell Handovers	B1275071440.C12 78092439	Sum	

			(Reconnection to Old Channels) (Conditional IE Error) (TDD)			
MS_RPT_MSG _TYPE_NEXIS _TENT	ACCUMULA TION	INT8	H352D11:Failed Outgoing Inter- RAT Inter-Cell Handovers (Reconnection to Old Channels) (Message Type Non-existent or Not Implemented) (TDD)	B1275071440.C12 78092437	Sum	
MS_RPT_MSG _TYPE_NOT_C OMPATIBLE	ACCUMULA TION	INT8	H352Dm1:Faile d Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Message Type Not Compatible with Protocol State) (TDD)	B1275071440.C12 78092438	Sum	
MS_RPT_PREE MPT_RLS	ACCUMULA TION	INT8	H352De1:Failed Outgoing Inter- RAT Inter-Cell Handovers (Reconnection to Old Channels) (Preemptive Release) (TDD)	B1275071440.C12 78092430	Sum	

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### 7.9.104Cell.Huawei.GSM.Outgoing\_interrat\_HO\_failures

Outgoing interRAT handover failures

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CLR_CMD_EQUIP_FAIL	ACCUMULATION	INT8	H352Hd:Failed Outgoing Inter-RAT Inter-Cell Handovers (Clear Commands Sent By MSC) (Equipment Failure)	B1275071431.C1278083460	Sum	hucsvbh, huctvbh
CLR_CMD_INVALID_MSG	ACCUMULATION	INT8	H352Hf:Failed Outgoing Inter-RAT Inter-Cell Handovers (Clear Commands Sent By MSC) (Invalid Message)	B1275071431.C1278083462	Sum	hucsvbh, huctvbh
CLR_CMD_PREEMPTION	ACCUMULATION	INT8	H352He:Failed Outgoing Inter-RAT Inter-Cell Handovers (Clear Commands Sent By MSC) (Preemption)	B1275071431.C1278083461	Sum	hucsvbh, huctvbh
CLR_CMD_PROTOCOL_ERR	ACCUMULATION	INT8	H352Hg:Failed Outgoing Inter-RAT Inter-Cell Handovers (Clear Commands Sent By MSC) (Protocol Error between BSS and MSC)	B1275071431.C1278083463	Sum	hucsvbh, huctvbh
CLR_CMD_RA	ACCUMULATION	INT8	H352Hb:Failed	B1275071431.C127	Sum	hucsvbh,

DIO_INTF_FAIL	TION		Outgoing Inter-RAT Inter-Cell Handovers (Clear Commands Sent By MSC) (Radio Interface Failure)	8083458		huctvbh
CLR_CMD_RADIO_INTF_MSG_FAIL	ACCUMULATION	INT8	H352Ha:Failed Outgoing Inter-RAT Inter-Cell Handovers (Clear Commands Sent By MSC) (Radio Interface Message Failure)	B1275071431.C127 8083457	Sum	hucsvbh, huctvbh
FAIL_HO_SDCCH_DR	ACCUMULATION	INT8	H3520A:Failed Outgoing Inter-RAT Inter-Cell Handovers (SDCCH) (Directed Retry)	B1275071431.C127 8083494	Sum	hucsvbh, huctvbh
HO_FAIL_A_INTERFACE_FAIL	ACCUMULATION	INT8	H352G:Failed Outgoing Inter-RAT Inter-Cell Handovers (A Interface Failure)	B1275071431.C127 8083465	Sum	hucsvbh, huctvbh
HO_FAIL_BSC_LOOP	ACCUMULATION	INT8	H352Aa:Number of Inter-System Outgoing Cell Handover Failures During BSC Loopback	B1275071431.C127 8083480	Sum	hucsvbh, huctvbh
HO_FAIL_BTS	ACCUMULATION	INT8	H352Ab:Numb	B1275071431.C127	Sum	hucsvbh,

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_LOOP	TION		er of Inter-System Outgoing Cell Handover Failures During BTS Loopback	8083481		huctvbh
HO_FAIL_CLR_CMD_OM_INTERV	ACCUMULATION	INT8	H352Hc:Failed Outgoing Inter-RAT Inter-Cell Handovers (Clear Commands Sent By MSC) (OM Intervention)	B1275071431.C127 8083459	Sum	hucsvbh, huctvbh
HO_FAIL_CLR_CMD_OTHER	ACCUMULATION	INT8	H352Hh:Failed Outgoing Inter-RAT Inter-Cell Handovers (Clear Commands Sent By MSC) (Other Causes)	B1275071431.C127 8083464	Sum	hucsvbh, huctvbh
HO_FAIL_HO_REJ_EQUIP_FAILURE	ACCUMULATION	INT8	H352Kb:Failed Outgoing Inter-RAT Inter-Cell Handovers (Handover Request Rejected) (Equipment Failure)	B1275071431.C127 8083444	Sum	hucsvbh, huctvbh
HO_FAIL_HO_REJ_OM_INTERV	ACCUMULATION	INT8	H352Ka:Failed Outgoing Inter-RAT Inter-Cell Handovers (Handover Request Rejected) (OM Intervention)	B1275071431.C127 8083443	Sum	hucsvbh, huctvbh
HO_FAIL_HO_REJ_OTHER	ACCUMULATION	INT8	H352Kn:Failed Outgoing Inter-RAT Inter-Cell Handovers	B1275071431.C127 8083456	Sum	hucsvbh, huctvbh

			(Handover Request Rejected) (Other Causes)			
HO_FAIL_HO_REJ_REQ_NO_SV	ACCUMULATION	INT8	H352Ki:Failed Outgoing Inter-RAT Inter-Cell Handovers (Handover Request Rejected) (Requested Speech Version Unavailable)	B1275071431.C127 8083451	Sum	hucsvbh, huctvbh
HO_FAIL_MS_RPT_CALL_CLR	ACCUMULATION	INT8	H352Di:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Call Already Cleared)	B1275071431.C127 8083434	Sum	hucsvbh, huctvbh
HO_FAIL_MS_RPT_FREQ	ACCUMULATION	INT8	H352Dh:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Frequency Unavailable)	B1275071431.C127 8083433	Sum	hucsvbh, huctvbh
HO_FAIL_MS_RPT_HO_TA	ACCUMULATION	INT8	H352Df:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels)	B1275071431.C127 8083431	Sum	hucsvbh, huctvbh

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			(Handover Failed, Timing Advance out of Range)			
HO_FAIL_MS_RPT_INV_MANN	ACCUMULATION	INT8	H352Dk:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Invalid Mandatory Information)	B1275071431.C127 8083436	Sum	hucsvbh, huctvbh
HO_FAIL_MS_RPT_NO_CA	ACCUMULATION	INT8	H352Do:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (No Cell Allocation Available)	B1275071431.C127 8083440	Sum	hucsvbh, huctvbh
HO_FAIL_MS_RPT_NO_CH_MODE	ACCUMULATION	INT8	H352Dg:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Channel Mode Unavailable)	B1275071431.C127 8083432	Sum	hucsvbh, huctvbh
HO_FAIL_MS_RPT_OTHER	ACCUMULATION	INT8	H352Dq:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Other Causes)	B1275071431.C127 8083442	Sum	hucsvbh, huctvbh
HO_FAIL_MS_RPT_PROTOCOL	ACCUMULATION	INT8	H352Dp:Failed Outgoing Inter-RAT Inter-Cell	B1275071431.C127 8083441	Sum	hucsvbh, huctvbh

			Handovers (Reconnection to Old Channels) (Protocol Error Unspecified)			
HO_FAIL_MS_RPT_SEMANT	ACCUMULATION	INT8	H352Dj:Failed Outgoing Inter- RAT Inter-Cell Handovers (Reconnection to Old Channels) (Semantically Incorrect Message)	B1275071431.C127 8083435	Sum	hucsvbh, huctvbh
HO_FAIL_NOT_INCLUDE_DR_SD	ACCUMULATION	INT8	H3520:Failed Outgoing Inter- RAT Inter-Cell Handovers (SDCCH) (Excluding Directed Retry)	B1275071431.C127 8083423	Sum	hucsvbh, huctvbh
HO_FAIL_T7_EXP	ACCUMULATION	INT8	H352L:Failed Outgoing Inter- RAT Inter-Cell Handovers (T7 Expired)	B1275071431.C127 8083466	Sum	hucsvbh, huctvbh
HO_FAIL_T8_EXP	ACCUMULATION	INT8	H352C:Failed Outgoing Inter- RAT Inter-Cell Handovers (T8 Expired)	B1275071431.C127 8083467	Sum	hucsvbh, huctvbh
HO_FAIL_TCHF	ACCUMULATION	INT8	H3527:Failed Outgoing Inter- RAT Inter-Cell Handovers (TCHF)	B1275071431.C127 8083424	Sum	hucsvbh, huctvbh

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HO_FAIL_TCHH	ACCUMULATION	INT8	H3528:Failed Outgoing Inter-RAT Inter-Cell Handovers (TCHH)	B1275071431.C1278083425	Sum	hucsvbh, huctvbh
HO_REJ_BSS_NOT_EQUIP	ACCUMULATION	INT8	H352Ke:Failed Outgoing Inter-RAT Inter-Cell Handovers (Handover Request Rejected) (BSS not Equipped)	B1275071431.C1278083447	Sum	hucsvbh, huctvbh
HO_REJ_CIPH_ALG_NOT_SUPPORT	ACCUMULATION	INT8	H352Kj:Failed Outgoing Inter-RAT Inter-Cell Handovers (Handover Request Rejected) (Ciphering Algorithm not Supported)	B1275071431.C1278083452	Sum	hucsvbh, huctvbh
HO_REJ_CIR_POOL_MISMATCH	ACCUMULATION	INT8	H352Kh:Failed Outgoing Inter-RAT Inter-Cell Handovers (Handover Request Rejected) (Circuit Pool Mismatch)	B1275071431.C1278083450	Sum	hucsvbh, huctvbh
HO_REJ_INVALID_CELL	ACCUMULATION	INT8	H352Kf:Failed Outgoing Inter-RAT Inter-Cell Handovers (Handover Request Rejected) (Invalid Cell)	B1275071431.C1278083448	Sum	hucsvbh, huctvbh
HO_REJ_INVALID_MSG	ACCUMULATION	INT8	H352Kl:Failed Outgoing Inter-RAT Inter-Cell	B1275071431.C1278083454	Sum	hucsvbh, huctvbh

			Handovers (Handover Request Rejected) (Invalid Message)			
HO_REJ_NO_RADIO_RES	ACCUMULATION	INT8	H352Kc:Failed Outgoing Inter- RAT Inter-Cell Handovers (Handover Request Rejected) (No Radio Resource Available)	B1275071431.C127 8083445	Sum	hucsvbh, huctvbh
HO_REJ_PROTOCOL_ERR	ACCUMULATION	INT8	H352Km:Failed Outgoing Inter- RAT Inter-Cell Handovers (Handover Request Rejected) (Protocol Error between BSS and MSC)	B1275071431.C127 8083455	Sum	hucsvbh, huctvbh
HO_REJ_REQ_NO_TER_RES	ACCUMULATION	INT8	H352Kd:Failed Outgoing Inter- RAT Inter-Cell Handovers (Handover Request Rejected) (Requested Terrestrial Resource Unavailable)	B1275071431.C127 8083446	Sum	hucsvbh, huctvbh
HO_REJ_REQ_TRANSC_UNAVL	ACCUMULATION	INT8	H352Kg:Failed Outgoing Inter- RAT Inter-Cell	B1275071431.C127 8083449	Sum	hucsvbh, huctvbh

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			Handovers (Handover Request Rejected) (Requested Transcoding/Ra te Adaption Unavailable)			
HO_REJ_TER_CIR_ALRDY_A LLOC	ACCUMULA TION	INT8	H352Kk:Failed Outgoing Inter- RAT Inter-Cell Handovers (Handover Request Rejected) (Terrestrial circuit already allocated)	B1275071431.C127 8083453	Sum	hucsvbh, huctvbh
MS_RPT_ABN ORM_REL_CH N	ACCUMULA TION	INT8	H352Db:Failed Outgoing Inter- RAT Inter-Cell Handovers (Reconnection to Old Channels) (Abnormal Release, Channel Unacceptable)	B1275071431.C127 8083427	Sum	hucsvbh, huctvbh
MS_RPT_ABN ORM_REL_NO _ACT	ACCUMULA TION	INT8	H352Dd:Failed Outgoing Inter- RAT Inter-Cell Handovers (Reconnection to Old Channels) (Abnormal Release, No Activity on the Radio Path)	B1275071431.C127 8083429	Sum	hucsvbh, huctvbh
MS_RPT_ABN ORM_REL_T_ E	ACCUMULA TION	INT8	H352Dc:Failed Outgoing Inter- RAT Inter-Cell	B1275071431.C127 8083428	Sum	hucsvbh, huctvbh

			Handovers (Reconnection to Old Channels) (Abnormal Release, Timer Expired)			
MS_RPT_ABNORM_REL_UN S	ACCUMULA TION	INT8	H352Da:Failed Outgoing Inter- RAT Inter-Cell Handovers (Reconnection to Old Channels) (Abnormal Release, Unspecified)	B1275071431.C127 8083426	Sum	hucsvbh, huctvbh
MS_RPT_CON DITION_IE_ER R	ACCUMULA TION	INT8	H352Dn:Failed Outgoing Inter- RAT Inter-Cell Handovers (Reconnection to Old Channels) (Conditional IE Error)	B1275071431.C127 8083439	Sum	hucsvbh, huctvbh
MS_RPT_MSG _TYPE_NEXIS TENT	ACCUMULA TION	INT8	H352DI:Failed Outgoing Inter- RAT Inter-Cell Handovers (Reconnection to Old Channels) (Message Type Non-existent or Not Implemented)	B1275071431.C127 8083437	Sum	hucsvbh, huctvbh
MS_RPT_MSG _TYPE_NOT_C	ACCUMULA TION	INT8	H352Dm:Failed Outgoing Inter-	B1275071431.C127 8083438	Sum	hucsvbh, huctvbh

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OMPATIBLE			RAT Inter-Cell Handovers (Reconnection to Old Channels) (Message Type Not Compatible with Protocol State)			
MS_RPT_PREE MPT_RLS	ACCUMULATION	INT8	H352De:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (Preemptive Release)	B1275071431.C127 8083430	Sum	hucsvbh, huctvbh
TOT_FAIL_IR AT_HO_CCMD	ACCUMULATION	INT8	Total Failed Outgoing Inter-RAT Inter-Cell Handovers (Clear Commands Sent By MSC)	B1275071431.C127 8083457 + C1278083458 + C1278083459 + C1278083460 + C1278083461 + C1278083462 + C1278083463 + C1278083464	Sum	hucsvbh, huctvbh
TOT_FAIL_IR AT_HO_RECO N_OLD	ACCUMULATION	INT8	Total Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels)	B1275071431.C127 8083426 + C1278083427 + C1278083428 + C1278083429 + C1278083430 + C1278083431 + C1278083432 + C1278083433 + C1278083434 + C1278083435 + C1278083436 + C1278083437 + C1278083438 + C1278083439 + C1278083440 + C1278083441 +	Sum	hucsvbh, huctvbh

				C1278083442		
TOT_FAIL_IR AT_HO_REJRQ	ACCUMULATION	INT8	Total Failed Outgoing Inter- RAT Inter-Cell Handovers (Handover Request Rejected)	B1275071431.C127 8083443 + C1278083444 + C1278083445 + C1278083446 + C1278083447 + C1278083448 + C1278083449 + C1278083450 + C1278083451 + C1278083452 + C1278083453 + C1278083454 + C1278083455 + C1278083456	Sum	hucsvbh, huctvbh

### 7.9.105Cell.Huawei.GSM.Outgoing\_interrat\_HO\_overview\_TDD

Outgoing interRAT handovers overview for TDD

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
FAIL_HO_SD CCH_DR_TDD	ACCUMULATION	INT8	H35201A:Failed Outgoing Inter- RAT Inter-Cell Handovers (SDCCH) (Directed Retry) (TDD)	B1275071440.C12 78092480	Sum	
HO_CMD_SD CCH_DR_TDD	ACCUMULATION	INT8	H35101A:Outgo ing Inter-RAT Inter-Cell Handover Commands (SDCCH) (Directed Retry) (TDD)	B1275071440.C12 78092479	Sum	

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HO_CMD	ACCUMULATION	INT8	CH3511:Outgoing Inter-RAT Inter-Cell Handover Commands (TDD)	B1275071440.C12 78092471	Sum	
HO_FAIL_MS C_CLR	ACCUMULATION	INT8	CH352H1:Failed Outgoing Inter-RAT Inter-Cell Handovers (Clear Commands Sent By MSC) (TDD)	B1275071440.C12 78092475	Sum	
HO_FAIL_RE CONN_SUCC	ACCUMULATION	INT8	CH352D1:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels) (TDD)	B1275071440.C12 78092473	Sum	
HO_FAIL_RE Q_REJ	ACCUMULATION	INT8	CH352K1:Failed Outgoing Inter-RAT Inter-Cell Handovers (Handover Request Rejected) (TDD)	B1275071440.C12 78092474	Sum	
HO_FAIL	ACCUMULATION	INT8	CH3521:Failed Outgoing Inter-RAT Inter-Cell Handovers (TDD)	B1275071440.C12 78092472	Sum	
HO_REQ	ACCUMULATION	INT8	CH3501:Outgoing Inter-RAT Inter-Cell Handover Requests (TDD)	B1275071440.C12 78092468	Sum	
HO_RQ_SDC CH_DR_TDD	ACCUMULATION	INT8	H35001A:Outgoing Inter-RAT	B1275071440.C12 78092478	Sum	

			Inter-Cell Handover Requests (SDCCH) (Directed Retry) (TDD)			
HO_SUCC_RATE	INTENSITY	FLOAT	TH3531:Success Rate of Outgoing Inter-RAT Inter-Cell Handover (TDD)	B1275071440.C1278092470	Average	Average, Maximum, Minimum, Sum
HO_SUCC	ACCUMULATION	INT8	CH3531:Successful Outgoing Inter-RAT Inter-Cell Handovers (TDD)	B1275071440.C1278092469	Sum	

**7.9.106Cell.Huawei.GSM.Outgoing\_interrat\_HO\_overview**

Outgoing interRAT handover overview

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
FAIL_HO_SVC_BASED_HO	ACCUMULATION	INT8	H352M:Failed Outgoing Inter-RAT Inter-Cell Handovers(service based handover)	B1275071431.C1278083491	Sum	hucsvbh, huctvbh
FAIL_HO_TARGET_TRAFF_LOAD_HI	ACCUMULATION	INT8	H352N:Number of Failed Outgoing Inter-RAT Inter-Cell Handovers (Target Cell Traffic Load Higher)	B1275071431.C1278083488	Sum	hucsvbh, huctvbh

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HO_CMD_LOAD_BASED_HO	ACCUMULATION	INT8	H351G:Outgoing Inter-RAT Inter-Cell Handover Commands(load based handover)	B1275071431.C12 78083487	Sum	hucsvbh, huctvbh
HO_CMD_SVC_BASED_HO	ACCUMULATION	INT8	H351M:Outgoing Inter-RAT Inter-Cell Handover Commands(service based handover)	B1275071431.C12 78083490	Sum	hucsvbh, huctvbh
HO_CMD	ACCUMULATION	INT8	CH351:Outgoing Inter-RAT Inter-Cell Handover Commands	B1275071431.C12 78083471	Sum	hucsvbh, huctvbh
HO_FAIL_MSCLR	ACCUMULATION	INT8	CH352H:Failed Outgoing Inter-RAT Inter-Cell Handovers (Clear Commands Sent By MSC)	B1275071431.C12 78083475	Sum	hucsvbh, huctvbh
HO_FAIL_RECONN_SUCC	ACCUMULATION	INT8	CH352D:Failed Outgoing Inter-RAT Inter-Cell Handovers (Reconnection to Old Channels)	B1275071431.C12 78083473	Sum	hucsvbh, huctvbh
HO_FAIL_REQ_REJ	ACCUMULATION	INT8	CH352K:Failed Outgoing Inter-RAT Inter-Cell Handovers (Handover Request Rejected)	B1275071431.C12 78083474	Sum	hucsvbh, huctvbh
HO_FAIL	ACCUMULATION	INT8	CH352:Failed Outgoing Inter-RAT Inter-Cell	B1275071431.C12 78083472	Sum	hucsvbh, huctvbh

			Handovers			
HO_REQ	ACCUMULATION	INT8	CH350:Outgoing Inter-RAT Inter-Cell Handover Requests	B1275071431.C12 78083468	Sum	hucsvbh, huctvbh
HO_RQ_LOAD_BASED_HO	ACCUMULATION	INT8	H350G:Outgoing Inter-RAT Inter-Cell Handover Requests(load based handover)	B1275071431.C12 78083486	Sum	hucsvbh, huctvbh
HO_RQ_SVC_BASED_HO	ACCUMULATION	INT8	H350M:Outgoing Inter-RAT Inter-Cell Handover Requests(service based handover)	B1275071431.C12 78083489	Sum	hucsvbh, huctvbh
HO_SUCC_BSC_LOOP	ACCUMULATION	INT8	CH353a:Number of Inter-System Outgoing Cell Handover Successes During BSC Loopback	B1275071431.C12 78083482	Sum	hucsvbh, huctvbh
HO_SUCC_BTS_LOOP	ACCUMULATION	INT8	CH353b:Number of Inter-System Outgoing Cell Handover Successes During BTS Loopback	B1275071431.C12 78083484	Sum	hucsvbh, huctvbh
HO_SUCC_RATE_BSC_LOOP	INTENSITY	FLOAT	TH353a:Success Rate of Inter-System	B1275071431.C12 78083483	Average	Average, hucsvbh, huctvbh,

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			Outgoing Cell Handover During BSC Loopback			Maximum, Minimum, Sum
HO_SUCC_RATE_BTS_LOOP	INTENSITY	FLOAT	TH353b:Success Rate of Inter-System Outgoing Cell Handover During BTS Loopback	B1275071431.C1278083485	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
HO_SUCC_RATE	INTENSITY	FLOAT	TH353:Success Rate of Outgoing Inter-RAT Inter-Cell Handover	B1275071431.C1278083470	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
HO_SUCC	ACCUMULATION	INT8	CH353:Successful Outgoing Inter-RAT Inter-Cell Handovers	B1275071431.C1278083469	Sum	hucsvbh, huctvbh

### 7.9.107Cell.Huawei.GSM.Packet\_access\_capability

Packet access capability

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CCCH_11BIT_PS_CHAN_REQ	ACCUMULATION	INT8	A9404:Number of 11-Bit Packet Channel Requests Received on CCCH	B1275072517.C1279169420	Sum	hucsvbh, huctvbh
CCCH_8BIT_PS_CHAN_REQ	ACCUMULATION	INT8	A9401:Number of 8-Bit Packet Channel Requests Received on CCCH	B1275072517.C1279169417	Sum	hucsvbh, huctvbh

CCCH_PS_ACCESS_REQ_AVG_REACH_TIME	INTENSITY	FLOAT	AA9407:Average Interval of Packet Access Requests on CCCH (s)	B1275072517.C127 9169423	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
DOWN_PACCH_UPLINK_RESOURCES_REQ	ACCUMULATION	INT8	A9411:Number of Resource Requests Received on Downlink PACCH	B1275072517.C127 9169427	Sum	hucsvbh, huctvbh
PCCCH_PS_ACCESS_REQ_AVG_REACH_TIME	INTENSITY	FLOAT	AA9409:Average Interval of Packet Access Requests on PCCCH(s)	B1275072517.C127 9169425	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
PCCCH_PS_CHANNEL_REQ	ACCUMULATION	INT8	A9408:Number of Packet Channel Requests Received on PCCCH	B1275072517.C127 9169424	Sum	hucsvbh, huctvbh
RACH_11BIT_SINGLE_BLOCK_REQ	ACCUMULATION	INT8	A9406:Number of 11-Bit Single Block Channel Requests Received on RACH	B1275072517.C127 9169422	Sum	hucsvbh, huctvbh
RACH_8BIT_1PHASE_ACCESS_CHAN_REQ	ACCUMULATION	INT8	A9402:Number of 8-Bit One Phase Access Requests Received on RACH	B1275072517.C127 9169418	Sum	hucsvbh, huctvbh

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RACH_8BIT_SINGLE_BLK_REQ	ACCUMULATION	INT8	A9403: Number of 8-Bit Single Block Channel Requests Received on RACH	B1275072517.C127 9169419	Sum	hucsvbh, huctvbh
RACH_E11BIT_1PHASE_ACCESS_REQ	ACCUMULATION	INT8	A9405: Number of 11-Bit One Phase Access Requests Received on RACH	B1275072517.C127 9169421	Sum	hucsvbh, huctvbh
UP_PACCH_ULINK_RES_REQ	ACCUMULATION	INT8	A9410: Number of Resource Requests Received on Uplink PACCH	B1275072517.C127 9169426	Sum	hucsvbh, huctvbh

### 7.9.108 Cell.Huawei.GSM.Packet\_assignment\_capability

Packet assignment capability

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
DOWN_ASS	ACCUMULATION	INT8	A9507: Number of Downlink Assignments	B1275072518.C127 9170423	Sum	hucsvbh, huctvbh
DOWN_IMM_ASS	ACCUMULATION	INT8	A9509: Number of Downlink PS Immediate Assignments	B1275072518.C127 9170425	Sum	hucsvbh, huctvbh
DOWN_PACCH_ULINK_RES_REQ	ACCUMULATION	INT8	A9511: Number of Downlink Assignments on PACCH	B1275072518.C127 9170427	Sum	hucsvbh, huctvbh
PACCH_SUCCESS_DOWN_ASS	ACCUMULATION	INT8	A9512: Number of Successful Downlink Assignments on PACCH	B1275072518.C127 9170428	Sum	hucsvbh, huctvbh

PACCH_UPLINK_ASS	ACCUMULATION	INT8	A9505: Number of Uplink Assignments on PACCH	B1275072518.C127 9170421	Sum	hucsvbh, huctvbh
SUCC_DL_ASSG_RATE	INTENSITY	FLOAT	A9514: Successful Downlink Assignment Rate(%)	B1275072518.C127 9170430	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
SUCC_DOWN_ASS	ACCUMULATION	INT8	A9508: Number of Successful Downlink Assignments	B1275072518.C127 9170424	Sum	hucsvbh, huctvbh
SUCC_DOWN_IMM_ASS	ACCUMULATION	INT8	A9510: Number of Successful Downlink PS Immediate Assignments	B1275072518.C127 9170426	Sum	hucsvbh, huctvbh
SUCC_PACCH_UPLINK_ASS	ACCUMULATION	INT8	A9506: Number of Successful Uplink Assignments on PACCH	B1275072518.C127 9170422	Sum	hucsvbh, huctvbh
SUCC_UL_ASSG_RATE	INTENSITY	FLOAT	A9513: Successful Uplink Assignment Rate(%)	B1275072518.C127 9170429	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
SUCC_UPLINK_ASS	ACCUMULATION	INT8	A9502: Number of Successful Uplink Assignments	B1275072518.C127 9170418	Sum	hucsvbh, huctvbh
SUCC_UPLINK_ASS	ACCUMULATION	INT8	A9504: Number	B1275072518.C127	Sum	hucsvbh,

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K_IMM_ASS	TION		of Successful Uplink PS Immediate Assignments	9170420		huctvbh
UPLINK_ASS	ACCUMULATION	INT8	A9501: Number of Uplink Assignments	B1275072518.C127 9170417	Sum	hucsvbh, huctvbh
UPLINK_IMM_ASS	ACCUMULATION	INT8	A9503: Number of Uplink PS Immediate Assignments	B1275072518.C127 9170419	Sum	hucsvbh, huctvbh

### 7.9.109Cell.Huawei.GSM.PDCH\_resource\_cap\_GPRS

PDCH resource capability for GPRS

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
AVG_ACT_GPDCH_NUM	INTENSITY	FLOAT	AR9309: Average Number of GPRS PDCHs Activated	B1275072618.C12 79270425	Average	Average, hucedvbh, hucevbh, hucgdvbh, hucguvbh, hucpevbh, Maximum, Minimum, Sum
AVG_ALL_GPRS_TBF_HO_GPRS_PDCH_NUMBER	INTENSITY	FLOAT	AR9329: Average Number of GPRS PDCHs Occupied by GPRS TBF	B1275072618.C12 79270445	Average	Average, hucedvbh, hucevbh, hucgdvbh, hucguvbh,

						hucpcvb h, Maximum, Minimum, Sum
AVG_AVAILABLE_GPRS_PDCH	INTENSITY	FLOAT	AR9383:Average Number of Available GPRS PDCHs	B1275072618.C12 79270499	Average	hucdvb h, hucevb h, hucgdvb h, hucguvb h, hucpcvb h, Sum, Minimum, Maximum
AVG_CCURL_GPRS_TBF	INTENSITY	FLOAT	AR9371:Average Number of Concurrent Downlink GPRS TBFs on Per GPRS PDCH	B1275072618.C12 79270487	Average	hucdvb h, hucevb h, hucgdvb h, hucguvb h, hucpcvb h, Sum, Minimum, Maximum
AVG_CCURL_GPRS_TBF	INTENSITY	FLOAT	AR9369:Average Number of Concurrent Uplink GPRS TBFs on Per GPRS PDCH	B1275072618.C12 79270485	Average	hucdvb h, hucevb h, hucgdvb h,

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						hucgvb h, hucpcvb h, Sum, Minimu m, Maximu m
AVG_GPRS_P DCH_DL_GPR S_TBF	INTENSITY	FLOA T	AR9351:Avera ge Number of GPRS PDCHs Occupied by Downlink GPRS TBFs	B1275072618.C12 79270467	Average	hucedvb h, hucevb h, hucgdvb h, hucgvb h, hucpcvb h, Sum, Minimu m, Maximu m
AVG_GPRS_P DCH_UL_GPR S_TBF	INTENSITY	FLOA T	AR9349:Avera ge Number of GPRS PDCHs Occupied by Uplink GPRS TBFs	B1275072618.C12 79270465	Average	hucedvb h, hucevb h, hucgdvb h, hucgvb h, hucpcvb h, Sum, Minimu m, Maximu m
AVG_OCCU_G PDCH_NUM	INTENSITY	FLOA T	AR9319:Avera ge Number of Occupied GPRS PDCHs	B1275072618.C12 79270435	Average	Average, hucedvb h, hucevb h, hucgdvb h, hucgvb

						h, hucpcvb h, Maximum, Minimum, Sum
CCUR_DL_GPRS_TBF	ACCUMULATION	INT8	R9370: Number of Concurrent Downlink GPRS TBFs on Per GPRS PDCH	B1275072618.C1279270486	Sum	hucedvb h, hucevb h, hucgdvb h, hucguvb h, hucpcvb h
CCUR_UL_GPRS_TBF	ACCUMULATION	INT8	R9368: Number of Concurrent Uplink GPRS TBFs on Per GPRS PDCH	B1275072618.C1279270484	Sum	hucedvb h, hucevb h, hucgdvb h, hucguvb h, hucpcvb h
GPRS_PDCH_AVG_GPRS_THRPUT_TBF	INTENSITY	FLOAT	AR9335: Average Number of Concurrent GPRS TBFs on GPRS PDCH	B1275072618.C1279270451	Average	Average, hucedvb h, hucevb h, hucgdvb h, hucguvb h, hucpcvb h, Maximum, Sum

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						Minimum, Sum
GPRS_PDCH_CARRY_DL_GPRS_TBF	ACCUMULATION	INT8	R9388: Number of GPRS PDCHs carrying downlink GPRS TBFs	B1275072618.C12 82411893	Sum	hucedvbh, huceuvbh, hucgdvbh, hucguvbh, hucpcvbh
GPRS_PDCH_CARRY_GPRS_TBF	ACCUMULATION	INT8	R9384: Number of GPRS PDCHs carrying GPRS TBFs	B1275072618.C12 82411889	Sum	hucedvbh, huceuvbh, hucgdvbh, hucguvbh, hucpcvbh
GPRS_PDCH_CARRY_UL_GPRS_TBF	ACCUMULATION	INT8	R9387: Number of GPRS PDCHs carrying uplink GPRS TBFs	B1275072618.C12 82411892	Sum	hucedvbh, huceuvbh, hucgdvbh, hucguvbh, hucpcvbh
GPRS_PDCH_NUM_GPRS_THRPUT_TBF	ACCUMULATION	INT8	R9334: Number of Concurrent GPRS TBFs on GPRS PDCH	B1275072618.C12 79270450	Sum	hucedvbh, huceuvbh, hucgdvbh, hucguvbh, hucpcvbh
TOT_ALL_GPR	ACCUMULATION	FLOA	R9328: Total	B1275072618.C12	Sum	hucedvb

S_TBF_HO_GPRS_PDCH	TION	T	Number of Sampled GPRS PDCHs Occupied by GPRS TBF	79270444		h, hucevb h, hucgdvb h, hucguvb h, hucpcvb h
TOT_SAMPLED_AVAILABLE_GPRS_PDCH	ACCUMULATION	INT8	R9382:Total Number of Sampled Available GPRS PDCHs	B1275072618.C12 79270498	Sum	hucedvb h, hucevb h, hucgdvb h, hucguvb h, hucpcvb h
TOT_SMPL_GPRS_PDCH_DL_GPRS_TBF	ACCUMULATION	INT8	R9350:Total Number of Sampled GPRS PDCHs Occupied by Downlink GPRS TBFs	B1275072618.C12 79270466	Sum	hucedvb h, hucevb h, hucgdvb h, hucguvb h, hucpcvb h
TOT_SMPL_GPRS_PDCH_UL_GPRS_TBF	ACCUMULATION	INT8	R9348:Total Number of Sampled GPRS PDCHs Occupied by Uplink GPRS TBFs	B1275072618.C12 79270464	Sum	hucedvb h, hucevb h, hucgdvb h, hucguvb h, hucpcvb h

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TOTAL_ACT_GPDCH_NUM	ACCUMULATION	FLOAT	R9308:Total Number of Sampled GPRS PDCHs Activated	B1275072618.C1279270424	Sum	hucedvbh, huceuvbh, hucgdvbh, hucguvbh, hucpcvbh
TOTAL_OCCU_GPDCH_NUM	ACCUMULATION	FLOAT	R9318:Total Number of Occupied GPRS PDCHs	B1275072618.C1279270434	Sum	hucedvbh, huceuvbh, hucgdvbh, hucguvbh, hucpcvbh

### 7.9.110Cell.Huawei.GSM.PDCH\_resource\_cap\_overview

PDCH resource capability overview

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
AVG_ALL_TBF_IN_CELL_OCCU_PDCH_NUM	INTENSITY	FLOAT	AR9327:Average Number of PDCHs Occupied by TBF	B1275072618.C1279270443	Average	Average, hucpcvbh, hucsvbh, huctvbh, Maximum, Minimum, Sum
AVG_DOWNLINK_OCCU_PDCH	INTENSITY	FLOAT	AR9315:Average Number of PDCHs Occupied by Downlink TBF	B1275072618.C1279270431	Average	Average, hucpcvbh, hucsvbh, huctvbh, Maximum,

						Minimum, Sum
AVG_UPLINK_OCCU_PDCH	INTENSITY	FLOAT	AR9313:Average Number of PDCHs Occupied by Uplink TBF	B1275072618.C1279270429	Average	Average, hucpcvbh, hucsvbh, huctvbh, Maximum, Minimum, Sum
AVR_ALL_AVAIL_PDCH_ALLOC_TIME	INTENSITY	FLOAT	AR9325:Average Allocated Seizure Duration of All Available PDCHs (s)	B1275072618.C1279270441	Average	Average, hucpcvbh, hucsvbh, huctvbh, Maximum, Minimum, Sum
AVR_AVAIL_PDCH	INTENSITY	FLOAT	AR9303:Average Number of Available PDCHs	B1275072618.C1279270419	Average	Average, hucpcvbh, hucsvbh, huctvbh, Maximum, Minimum, Sum
AVR_OCCU_PDCH	INTENSITY	FLOAT	AR9311:Average Number of Occupied PDCHs	B1275072618.C1279270427	Average	Average, hucpcvbh, hucsvbh, huctvbh, Maximum, Minimum, Sum

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DYN_RQ_NOA PP_ATT_NO_A BIS_TS	ACCUMULATION	INT8	R9347: Number of Dynamic PDCH Requests Without Application Attempts Because No Abis Timeslot is Available for Use	B1275072618.C12 79270463	Sum	hucpcv h, hucsvbh, huctvbh
DYN_RQ_NOA PP_ATT_REAC H	ACCUMULATION	INT8	R9346: Number of Dynamic PDCH Requests Without Application Attempts Because the Number of Activated PDCHs Reaches Board Specification	B1275072618.C12 79270462	Sum	hucpcv h, hucsvbh, huctvbh
MAX_AVAIL_ PDCH	INTENSITY	INT8	R9304: Maximum Number of Available PDCHs	B1275072618.C12 79270420	Constant	Average, hucpcv h, hucsvbh, huctvbh, Maximum, Minimum, Sum
MAX_OCCU_ PDCH	INTENSITY	INT8	R9316: Maximum Number of Occupied PDCHs	B1275072618.C12 79270432	Constant	Average, hucpcv h, hucsvbh, huctvbh, Maximum, Minimum, Sum
MIN_AVAIL_ PDCH	INTENSITY	INT8	R9305: Minimum Number of Available	B1275072618.C12 79270421	Minimum	Average, hucpcv h,

			PDCHs			hucsvbh, huctvbh, Maximum, Minimum, Sum
MIN_OCCU_P DCH	INTENSITY	INT8	R9317:Minimum Number of Occupied PDCHs	B1275072618.C12 79270433	Minimum	Average, hucpcvbh, hucsvbh, huctvbh, Maximum, Minimum, Sum
PDCH_APP_A TT	ACCUMULA TION	INT8	R9393:Number Of PDCH Application Attempts	B1275072618.C12 82411898	Sum	hucpcvbh, hucsvbh, huctvbh
PDCH_APP_FA IL_NO_CONV ERT_TCH	ACCUMULA TION	INT8	R9394:Number of PDCH Application Failures due to no Convertable TCHs	B1275072618.C12 82411899	Sum	hucpcvbh, hucsvbh, huctvbh
PDCH_APP_FA IL_PDCH_RAT IO_THRES	ACCUMULA TION	INT8	R9395:Number of PDCH Application failures For CELL PDCH Ratio Thresh	B1275072618.C12 82411900	Sum	hucpcvbh, hucsvbh, huctvbh
PDCH_SAMPL E_PDCH	ACCUMULA TION	INT8	R9301:Samplin g Times of PDCH Measurement	B1275072618.C12 79270417	Sum	hucpcvbh, hucsvbh, huctvbh
RECLAIM_DY N_LOAD_PDC H	ACCUMULA TION	INT8	R9344:Number of Reclaimed Busy Dynamic	B1275072618.C12 79270460	Sum	hucpcvbh, hucsvbh,

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			PDCHs			huctvbh
RECLAIM_DY N_PDCH	ACCUMULA TION	INT8	R9343: Number of Reclaimed Dynamic PDCHs	B1275072618.C12 79270459	Sum	hucpcvb h, hucsvbh, huctvbh
SAMPLE_NUM _ALL_AV_PD CH_ALLOC_TI ME	ACCUMULA TION	INT8	R9324: Total Allocated Seizure Duration of All Available PDCHs (ms)	B1275072618.C12 79270440	Sum	hucpcvb h, hucsvbh, huctvbh
SAMPLE_NUM _AVAIL_PDCH	ACCUMULA TION	INT8	R9302: Total Number of Sampled Available PDCHs	B1275072618.C12 79270418	Sum	hucpcvb h, hucsvbh, huctvbh
SUCC_RATE_P DPTCH_DISTRI B	INTENSITY	FLOA T	AR9345: Succes sful Rate of PDTCH Distribution	B1275072618.C12 79270461	Average	hucpcvb h, hucsvbh, huctvbh, Sum, Minimu m, Maximu m
TCH_TO_PDT CH_ATMPT	ACCUMULA TION	INT8	R9341: Number of TCH to PDTCH Conversion Attempts	B1275072618.C12 79270457	Sum	hucpcvb h, hucsvbh, huctvbh
TCH_TO_PDT CH_SUCC	ACCUMULA TION	INT8	R9342: Number of Successful TCH to PDTCH Conversions	B1275072618.C12 79270458	Sum	hucpcvb h, hucsvbh, huctvbh
TOT_ALL_TBF _IN_CELL_OC CU_PDCH	ACCUMULA TION	INT8	R9326: Total Number of Sampled PDCHs Occupied by TBF	B1275072618.C12 79270442	Sum	hucpcvb h, hucsvbh, huctvbh

TOTAL_DOWNLINK_OCCU_PDCH	ACCUMULATION	INT8	R9314:Total Number of Sampled PDCHs Occupied by Downlink TBF	B1275072618.C1279270430	Sum	hucpevbh, hucsvbh, huctvbh
TOTAL_NUM_OCCU_PDCH	ACCUMULATION	INT8	R9310:Total Number of Sampled PDCHs Occupied	B1275072618.C1279270426	Sum	hucpevbh, hucsvbh, huctvbh
TOTAL_UPLINK_OCCU_PDCH	ACCUMULATION	INT8	R9312:Total Number of Sampled PDCHs Occupied by Uplink TBF	B1275072618.C1279270428	Sum	hucpevbh, hucsvbh, huctvbh

**7.9.111Cell.Huawei.GSM.PDCH\_resource\_capability\_EGPRS**

PDCH resource capability for EGPRS

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
AVG_ACT_EP_DCH_NUM	INTENSITY	FLOAT	AR9307:Average Number of EGPRS PDCHs Activated	B1275072618.C1279270423	Average	Average, hucedvbh, hucevbh, hucpevbh, Maximum, Minimum, Sum
AVG_AVAILABLE_EGPRS_PDCH	INTENSITY	FLOAT	AR9381:Average Number of Available	B1275072618.C1279270497	Average	hucedvbh, hucevbh

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			EGPRS PDCHs			h, hucpcvvh, Sum, Minimum, Maximum
AVG_CCUR_DL_EGPRS_TBF	INTENSITY	FLOAT	AR9379:Average Number of Concurrent Downlink EGPRS TBFs on Per EGPRS PDCH	B1275072618.C1279270495	Average	hucedvvh, hucevvh, hucpcvvh, Sum, Minimum, Maximum
AVG_CCUR_DL_GPRS_TBF_EPGRS_PDCH	INTENSITY	FLOAT	AR9375:Average Number of Concurrent Downlink GPRS TBFs on Per EGPRS PDCH	B1275072618.C1279270491	Average	hucedvvh, hucevvh, hucpcvvh, Sum, Minimum, Maximum
AVG_CCUR_UL_EGPRS_TBF	INTENSITY	FLOAT	AR9377:Average Number of Concurrent Uplink EGPRS TBFs on Per EGPRS PDCH	B1275072618.C1279270493	Average	hucedvvh, hucevvh, hucpcvvh, Sum, Minimum, Maximum
AVG_CCUR_UL_GPRS_TBF_EPGRS_PDCH	INTENSITY	FLOAT	AR9373:Average Number of Concurrent Uplink GPRS TBFs on Per EGPRS PDCH	B1275072618.C1279270489	Average	hucedvvh, hucevvh, hucpcvvh, Sum,

						Minimum, Maximum
AVG_D_EGPRS_PDCH_DL_EGPRS_TBF	INTENSITY	FLOAT	AR9367:Average Number of Dynamic EGPRS PDCHs Occupied by Downlink EGPRS TBFs	B1275072618.C1279270483	Average	hucedvbh, huceuvbh, hucpcvbh, Sum, Minimum, Maximum
AVG_D_EGPRS_PDCH_DL_GPRS_TBF	INTENSITY	FLOAT	AR9359:Average Number of Dynamic EGPRS PDCHs Occupied by Downlink GPRS TBFs	B1275072618.C1279270475	Average	hucedvbh, huceuvbh, hucpcvbh, Sum, Minimum, Maximum
AVG_D_EGPRS_PDCH_UL_EGPRS_TBF	INTENSITY	FLOAT	AR9363:Average Number of Dynamic EGPRS PDCHs Occupied by Uplink EGPRS TBFs	B1275072618.C1279270479	Average	hucedvbh, huceuvbh, hucpcvbh, Sum, Minimum, Maximum
AVG_D_EGPRS_PDCH_UL_GPRS_TBF	INTENSITY	FLOAT	AR9355:Average Number of Dynamic EGPRS PDCHs	B1275072618.C1279270471	Average	hucedvbh, huceuvbh, hucpcvbh

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			Occupied by Uplink GPRS TBFs			h, Sum, Minimum, Maximum
AVG_EDGE_TBF_OCCU_EDGE_PDCH_NUM	INTENSITY	FLOAT	AR9333:Average Number of EGPRS PDCHs Occupied by EGPRS TBF	B1275072618.C1279270449	Average	Average, hucedvbh, hucevvh, hucpcvvh, Maximum, Minimum, Sum
AVG_GPRS_TBF_HO_EDGE_PDCH_NUM	INTENSITY	FLOAT	AR9331:Average Number of EGPRS PDCHs Occupied by GPRS TBF	B1275072618.C1279270447	Average	Average, hucedvbh, hucevvh, hucpcvvh, Maximum, Minimum, Sum
AVG_OCCU_DYN_EPDCH_NUM	INTENSITY	FLOAT	AR9323:Average Number of Occupied Dynamic EGPRS PDCHs	B1275072618.C1279270439	Average	Average, hucedvbh, hucevvh, hucpcvvh, Maximum, Minimum, Sum
AVG_OCCU_STATIC_EPDCH_NUM	INTENSITY	FLOAT	AR9321:Average Number of Occupied Static EGPRS PDCHs	B1275072618.C1279270437	Average	Average, hucedvbh, hucevvh,

						hucpcvb h, Maximum, Minimum, Sum
AVG_S_EGPRS _PDCH_DL_EG PRS_TBF	INTENSITY	FLOA T	AR9365:Avera ge Number of Static EGPRS PDCHs Occupied by Downlink EGPRS TBFs	B1275072618.C12 79270481	Average	hucdvb h, hucevb h, hucpcvb h, Sum, Minimum, Maximum
AVG_S_EGPRS _PDCH_DL_GP RS_TBF	INTENSITY	FLOA T	AR9357:Avera ge Number of Static EGPRS PDCHs Occupied by Downlink GPRS TBFs	B1275072618.C12 79270473	Average	hucdvb h, hucevb h, hucpcvb h, Sum, Minimum, Maximum
AVG_S_EGPRS _PDCH_UL_EG PRS_TBF	INTENSITY	FLOA T	AR9361:Avera ge Number of Static EGPRS PDCHs Occupied by Uplink EGPRS TBFs	B1275072618.C12 79270477	Average	hucdvb h, hucevb h, hucpcvb h, Sum, Minimum, Maximum
AVG_S_EGPRS _PDCH_UL_GP RS_TBF	INTENSITY	FLOA T	AR9353:Avera ge Number of Static EGPRS	B1275072618.C12 79270469	Average	hucdvb h, hucevb

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			PDCHs Occupied by Uplink GPRS TBFs			h, hupevbh, Sum, Minimum, Maximum
CCUR_DL_EGPRS_TBF	ACCUMULATION	INT8	R9378: Number of Concurrent Downlink EGPRS TBFs on Per EGPRS PDCH	B1275072618.C1279270494	Sum	hucedvbh, hupevbh, hupevbh
CCUR_DL_GPRS_TBF_EGPRS_PDCH	ACCUMULATION	INT8	R9374: Number of Concurrent Downlink GPRS TBFs on Per EGPRS PDCH	B1275072618.C1279270490	Sum	hucedvbh, hupevbh, hupevbh
CCUR_UL_EGPRS_TBF	ACCUMULATION	INT8	R9376: Number of Concurrent Uplink EGPRS TBFs on Per EGPRS PDCH	B1275072618.C1279270492	Sum	hucedvbh, hupevbh, hupevbh
CCUR_UL_GPRS_TBF_EPGRS_PDCH	ACCUMULATION	INT8	R9372: Number of Concurrent Uplink GPRS TBFs on Per EGPRS PDCH	B1275072618.C1279270488	Sum	hucedvbh, hupevbh, hupevbh
EDGE_PDCH_AVG_EDGE_T_HRPUT_TBF	INTENSITY	FLOAT	AR9337: Average Number of Concurrent EGPRS TBFs on EGPRS PDCH	B1275072618.C1279270453	Average	Average, hucedvbh, hupevbh, hupevbh, Maximum, Minimum, Sum

EDGE_PDCH_AVG_GPRS_T_HRPUT_TBF	INTENSITY	FLOAT	AR9339:Average Number of Concurrent GPRS TBFs on EGPRS PDCH	B1275072618.C1279270455	Average	Average, hucedvbh, hucevvh, hucpcvvh, Maximum, Minimum, Sum
EDGE_PDCH_NUM_EDGE_T_HRPUT_TBF	ACCUMULATION	INT8	R9336:Number of Concurrent EGPRS TBFs on EGPRS PDCH	B1275072618.C1279270452	Sum	hucedvbh, hucevvh, hucpcvvh
EDGE_PDCH_NUM_GPRS_T_HRPUT_TBF	ACCUMULATION	INT8	R9338:Number of Concurrent GPRS TBFs on EGPRS PDCH	B1275072618.C1279270454	Sum	hucedvbh, hucevvh, hucpcvvh
EGPRS_PDCH_CARRY_DL_EGPRS_TBF	ACCUMULATION	INT8	R9390:Number of EGPRS PDCHs carrying downlink EGPRS TBFs	B1275072618.C1282411895	Sum	hucedvbh, hucevvh, hucpcvvh
EGPRS_PDCH_CARRY_DL_GPRS_TBF	ACCUMULATION	INT8	R9392:Number of EGPRS PDCHs carrying downlink GPRS TBFs	B1275072618.C1282411897	Sum	hucedvbh, hucevvh, hucpcvvh
EGPRS_PDCH_CARRY_EGPRS_TBF	ACCUMULATION	INT8	R9385:Number of EGPRS PDCHs	B1275072618.C1282411890	Sum	hucedvbh, hucevvh

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			carrying EGPRS TBFs			h, hucpcvb h
EGPRS_PDCH_CARRY_GPRS_TBF	ACCUMULATION	INT8	R9386: Number of EGPRS PDCHs carrying GPRS TBFs	B1275072618.C12 82411891	Sum	hucedvb h, huceuvb h, hucpcvb h
EGPRS_PDCH_CARRY_UL_EGPRS_TBF	ACCUMULATION	INT8	R9389: Number of EGPRS PDCHs carrying uplink EGPRS TBFs	B1275072618.C12 82411894	Sum	hucedvb h, huceuvb h, hucpcvb h
EGPRS_PDCH_CARRY_UL_GPRS_TBF	ACCUMULATION	INT8	R9391: Number of EGPRS PDCHs carrying uplink GPRS TBFs	B1275072618.C12 82411896	Sum	hucedvb h, huceuvb h, hucpcvb h
SHARE_TBF_NUM_PER_EPDCCH	ACCUMULATION	INT8	R9340: Number of Shared Downlink TBFs on EGPRS PDCH	B1275072618.C12 79270456	Sum	hucedvb h, huceuvb h, hucpcvb h
TOT_S_EGPRS_PDCH_DL_EGPRS_TBF	ACCUMULATION	INT8	R9364: Total Number of Static EGPRS PDCHs Occupied by Downlink EGPRS TBFs	B1275072618.C12 79270480	Sum	hucedvb h, huceuvb h, hucpcvb h
TOT_S_EGPRS_PDCH_DL_GPRS_TBF	ACCUMULATION	INT8	R9356: Total Number of Static EGPRS PDCHs Occupied by Downlink GPRS TBFs	B1275072618.C12 79270472	Sum	hucedvb h, huceuvb h, hucpcvb h

TOT_SMPL_A VAIL_EGPRS_ PDCH	ACCUMULA TION	INT8	R9380:Total Number of Sampled Available EGPRS PDCHs	B1275072618.C12 79270496	Sum	hucedvb h, huceuvb h, hucpcvb h
TOT_SMPL_D_ EGPRS_PDCH_ DL_EGPRS_TB F	ACCUMULA TION	INT8	R9366:Total Number of Sampled Dynamic EGPRS PDCHs Occupied by Downlink EGPRS TBFs	B1275072618.C12 79270482	Sum	hucedvb h, huceuvb h, hucpcvb h
TOT_SMPL_D_ EGPRS_PDCH_ DL_GPRS_TBF	ACCUMULA TION	INT8	R9358:Total Number of Sampled Dynamic EGPRS PDCHs Occupied by Downlink GPRS TBFs	B1275072618.C12 79270474	Sum	hucedvb h, huceuvb h, hucpcvb h
TOT_SMPL_D_ EGPRS_PDCH_ UL_EGPRS_TB F	ACCUMULA TION	INT8	R9362:Total Number of Sampled Dynamic EGPRS PDCHs Occupied by Uplink EGPRS TBFs	B1275072618.C12 79270478	Sum	hucedvb h, huceuvb h, hucpcvb h
TOT_SMPL_D_ EGPRS_PDCH_ UL_GPRS_TBF	ACCUMULA TION	INT8	R9354:Total Number of Sampled Dynamic EGPRS PDCHs	B1275072618.C12 79270470	Sum	hucedvb h, huceuvb h, hucpcvb h

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			Occupied by Uplink GPRS TBFs			
TOT_SMPL_S_EGPRS_PDCH_UL_EGPRS_TBF	ACCUMULATION	INT8	R9360:Total Number of Sampled Static EGPRS PDCHs Occupied by Uplink EGPRS TBFs	B1275072618.C1279270476	Sum	hucedvbh, huceuvbh, hucpcvvh
TOT_SMPL_S_EGPRS_PDCH_UL_GPRS_TBF	ACCUMULATION	INT8	R9352:Total Number of Sampled Static EGPRS PDCHs Occupied by Uplink GPRS TBFs	B1275072618.C1279270468	Sum	hucedvbh, huceuvbh, hucpcvvh
TOTAL_ACT_EPDCH_NUM	ACCUMULATION	INT8	R9306:Total Number of Sampled EGPRS PDCHs Activated	B1275072618.C1279270422	Sum	hucedvbh, huceuvbh, hucpcvvh
TOTAL_EDGE_TBF_OCCU_EDGE_PDCH_NUM	ACCUMULATION	INT8	R9332:Total Number of Sampled EGPRS PDCHs Occupied by EGPRS TBF	B1275072618.C1279270448	Sum	hucedvbh, huceuvbh, hucpcvvh
TOTAL_GPRS_TBF_HO_EDGE_PDCH_NUM	ACCUMULATION	INT8	R9330:Total Number of Sampled EGPRS PDCHs Occupied by GPRS TBF	B1275072618.C1279270446	Sum	hucedvbh, huceuvbh, hucpcvvh
TOTAL_OCCU_DYN_EPDCH_NUM	ACCUMULATION	INT8	R9322:Total Number of Sampled	B1275072618.C1279270438	Sum	hucedvbh, huceuvbh

			Dynamic EGPRS PDCHs Occupied			h, hucpcvb h
TOTAL_OCCU_STATIC_EPDC_NUM	ACCUMULATION	INT8	R9320:Total Number of Sampled Static EGPRS PDCHs Occupied	B1275072618.C1279270436	Sum	hucedvb h, hucevb h, hucpcvb h

**7.9.112Cell.Huawei.GSM.PDCH\_user\_capability**

PDCH user capability KPIs.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
AVG_DL_BW_PER_EGPRS_PDCH	INTENSITY	FLOAT	AR9619:Average Downlink Bandwidth per EGPRS PDCH .	B1275072619.C1279271435 or B1290793486.C1279271435	Average	hucedvb h, hucevb h, hucgdvb h, hucguvb h, hucpcvb h, Sum, Minimum, Maximum
AVG_DL_BW_PER_EGPRS_USER	INTENSITY	FLOAT	AR9620:Average Downlink Bandwidth per EGPRS User .	B1275072619.C1279271436 or B1290793486.C1279271436	Average	hucedvb h, hucevb h, hucgdvb h, hucguvb

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						h, hucpcvb h, Sum, Minimum, Maximum
AVG_DL_BW _PER_GPRS_ _PDCH	INTENSITY	FLOA T	AR9609:Avera ge Downlink Bandwidth per GPRS PDCH .	B1275072619.C127 9271425 or B1290793486.C127 9271425	Average	hucedvb h, hucevb h, hucgdvb h, hucguvb h, hucpcvb h, Sum, Minimum, Maximum
AVG_DL_BW _PER_GPRS_ _USER	INTENSITY	FLOA T	AR9610:Avera ge Downlink Bandwidth per GPRS User .	B1275072619.C127 9271426 or B1290793486.C127 9271426	Average	hucedvb h, hucevb h, hucgdvb h, hucguvb h, hucpcvb h, Sum, Minimum, Maximum
AVG_UL_BW _PER_EGPRS_ _PDCH	INTENSITY	FLOA T	AR9614:Avera ge Uplink Bandwidth per EGPRS PDCH .	B1275072619.C127 9271430 or B1290793486.C127 9271430	Average	hucedvb h, hucevb h, hucgdvb h, hucguvb h, hucpcvb

						h, Sum, Minimum, Maximum
AVG_UL_BW_PER_EGPRS_USER	INTENSITY	FLOAT	AR9615:Average Uplink Bandwidth per EGPRS User .	B1275072619.C1279271431 or B1290793486.C1279271431	Average	hucedvbh, hucevvh, hucgdvh, hucguvh, hucpcvh, Sum, Minimum, Maximum
AVG_UL_BW_PER_GPRS_PDCH	INTENSITY	FLOAT	AR9604:Average Uplink Bandwidth per GPRS PDCH .	B1275072619.C1279271420 or B1290793486.C1279271420	Average	hucedvbh, hucevvh, hucgdvh, hucguvh, hucpcvh, Sum, Minimum, Maximum
AVG_UL_BW_PER_GPRS_USER	INTENSITY	FLOAT	AR9605:Average Uplink Bandwidth per GPRS User .	B1275072619.C1279271421 or B1290793486.C1279271421	Average	hucedvbh, hucevvh, hucgdvh, hucguvh

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						h, hucpcvb h, Sum, Minimum, Maximum
DL_PDCH_P ER_EGPRS_U SER_ORGN	ACCUMULA TION	INTEG ER	R9616: Number of Actually Used Downlink PDCHs per EGPRS User (Original) .Obsolete in V900R011.	B1275072619.C127 9271432	Sum	hucdvb h, hucevb h, hucgdvb h, hucguvb h, hucpcvb h
DL_PDCH_P ER_EGPRS_U SER	ACCUMULA TION	FLOA T	AR9618: Numb er of Actually Used Downlink PDCHs per EGPRS User (User) .	B1275072619.C127 9271434 or B1290793486.C127 9271434	Sum	hucdvb h, hucevb h, hucgdvb h, hucguvb h, hucpcvb h
DL_PDCH_P ER_GPRS_US ER_ORGN	ACCUMULA TION	INTEG ER	R9606: Number of Actually Used Downlink PDCHs per GPRS User (Original) .Obsolete in V900R011.	B1275072619.C127 9271422	Sum	hucdvb h, hucevb h, hucgdvb h, hucguvb h, hucpcvb h
DL_PDCH_P ER_GPRS_US ER	ACCUMULA TION	FLOA T	AR9608: Numb er of Actually Used Downlink PDCHs per GPRS User (User) .	B1275072619.C127 9271424 or B1290793486.C127 9271424	Sum	hucdvb h, hucevb h, hucgdvb h,

						hucgvb h, hucpevb h
SMPL_TIMES _GPRS_DL_P RIOR_SVC	ACCUMULA TION	INTEG ER	R9607:Samplin g Times of GPRS Downlink Priority Service .Obsolete in V900R011.	B1275072619.C127 9271423	Sum	hucedvb h, hucevb h, hucgdvb h, hucgvb h, hucpevb h
SMPL_TIMES _GPRS_UL_P RIOR_SVC	ACCUMULA TION	INTEG ER	R9602:Samplin g Times of GPRS Uplink Priority Service .Obsolete in V900R011.	B1275072619.C127 9271418	Sum	hucedvb h, hucevb h, hucgdvb h, hucgvb h, hucpevb h
SMPL_TIMES _OF_EGPRS_ DL_PRIOR_S VC	ACCUMULA TION	INTEG ER	R9617:Samplin g Times of EGPRS Downlink Priority Service .Obsolete in V900R011.	B1275072619.C127 9271433	Sum	hucedvb h, hucevb h, hucgdvb h, hucgvb h, hucpevb h
SMPL_TIMES _OF_EGPRS_ UL_PRIOR_S VC	ACCUMULA TION	INTEG ER	R9612:Samplin g Times of EGPRS Uplink Priority Service .Obsolete in	B1275072619.C127 9271428	Sum	hucedvb h, hucevb h, hucgdvb

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			V900R011.			h, hucgvb h, hucpcvb h
UL_PDCH_P ER_EGPRS_U SER_ORGN	ACCUMULA TION	INTEG ER	R9611: Number of Actually Used Uplink PDCHs per EGPRS User (Original) .Obsolete in V900R011.	B1275072619.C127 9271427	Sum	hucedvb h, hucevb h, hucgdvb h, hucgvb h, hucpcvb h
UL_PDCH_P ER_EGPRS_U SER	ACCUMULA TION	FLOA T	AR9613: Numb er of Actually Used Uplink PDCHs per EGPRS User (User) .	B1275072619.C127 9271429 or B1290793486.C127 9271429	Sum	hucedvb h, hucevb h, hucgdvb h, hucgvb h, hucpcvb h
UL_PDCH_P ER_GPRS_US ER_ORGN	ACCUMULA TION	INTEG ER	R9601: Number of Actually Used Uplink PDCHs per GPRS User (Original) .Obsolete in V900R011.	B1275072619.C127 9271417	Sum	hucedvb h, hucevb h, hucgdvb h, hucgvb h, hucpcvb h
UL_PDCH_P ER_GPRS_US ER	ACCUMULA TION	FLOA T	AR9603: Numb er of Actually Used Uplink PDCHs per GPRS User (User) .	B1275072619.C127 9271419 or B1290793486.C127 9271419	Sum	hucedvb h, hucevb h, hucgdvb h, hucgvb h,

						hucpcv h
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**7.9.113Cell.Huawei.GSM.Power\_control\_messages**

Power control counters

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
AMR_BTS_POWER_LEVEL	ACCUMULATION	INT8	S3241A:BTS Power Level of AMR Call	B1275071619.C1278271446	Sum	hucsvbh, huctvbh
AMR_MS_POWER_LEVEL_AVE	INTENSITY	FLOAT	AS3240A:The Average MS Power Level of AMR Call	B1275071619.C1278271449	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
AMR_MS_POWER_LEVEL	ACCUMULATION	INT8	S3240A:MS Power Level of AMR Call	B1275071619.C1278271445	Sum	hucsvbh, huctvbh
Avg_BTS_Power_lvl_of_AMR_Call	INTENSITY	FLOAT	AS3241A :The Average BTS Power Level of AMR Call	B1275071619.C1278271450	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
BTS_POWER_MR_NUM	ACCUMULATION	INT8	S3291B:Total Number of Measurement Reports with BTS Power Level	B1275071619.C1278271443	Sum	hucsvbh, huctvbh
BTS_PWR_DE	ACCUMULATION	INT8	S3231B:Numbe	B1275071619.C12	Sum	hucsvbh,

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CREASE_CM D_TIMES	TION		r of Power Control Decrease Messages Sent to BTS	78271420		huctvbh
BTS_PWR_IN CREASE_CM D_TIMES	ACCUMULA TION	INT8	S3231A:Numb er of Power Control Increase Messages Sent to BTS	B1275071619.C12 78271419	Sum	hucsvbh, huctvbh
BTS_PWR_LE V_AVR	INTENSITY	FLOA T	AS3241:The Average Power Level of BTS	B1275071619.C12 78271424	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
BTS_PWR_LE V	ACCUMULA TION	INT8	S3241:BTS Power Rank	B1275071619.C12 78271422	Sum	hucsvbh, huctvbh
DL_SIG_QLT Y_AVR	INTENSITY	FLOA T	AS326B:Mean Quality of Downlink Signals	B1275071619.C12 78271431	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
DL_SIG_QLT Y	ACCUMULA TION	INT8	S326B:Quality of Downlink Signals	B1275071619.C12 78271429	Sum	hucsvbh, huctvbh
DL_SIG_STRE NGTH_AVR	INTENSITY	FLOA T	AS325B:Mean Strength of Downlink Signals	B1275071619.C12 78271427	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
DL_SIG_STRE NGTH	INTENSITY	INT8	S325B:Strength of Downlink Signals	B1275071619.C12 78271425	Average	Average, hucsvbh, huctvbh, Maximum

						m, Minimum, Sum
MAX_MS_BTS_DIST	INTENSITY	INT8	S3281:Maximum Distance Between MS and BTS	B1275071619.C12 78271440	Constant	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
MR_AMR_BTS_POWER_NUM	ACCUMULATION	INT8	S3291A:Total Number of Measurement Reports for AMR with BTS Power Level	B1275071619.C12 78271447	Sum	hucsvbh, huctvbh
MR_AMR_MS_POWER_NUM	ACCUMULATION	INT8	S3290A:Total Number of Measurement Reports for AMR with MS Power Level	B1275071619.C12 78271448	Sum	hucsvbh, huctvbh
MS_BTS_DIST_AVR	INTENSITY	FLOAT	AS3280:Mean Distance Between MS and BTS	B1275071619.C12 78271442	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
MS_BTS_DIST	ACCUMULATION	INT8	S3280:Distance Between MS and BTS	B1275071619.C12 78271439	Sum	hucsvbh, huctvbh
MS_POWER_MR_NUM	ACCUMULATION	INT8	S3290B:Total Number of Measurement Reports with MS Power Level	B1275071619.C12 78271444	Sum	hucsvbh, huctvbh

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MS_PWR_DECREASE_CMD_TIMES	ACCUMULATION	INT8	S3230B: Number of Power Control Decrease Messages Sent to MS	B1275071619.C12 78271418	Sum	hucsvbh, huctvbh
MS_PWR_INCREASE_CMD_TIMES	ACCUMULATION	INT8	S3230A: Number of Power Control Increase Messages Sent to MS	B1275071619.C12 78271417	Sum	hucsvbh, huctvbh
MS_PWR_LEV_AVR	INTENSITY	FLOAT	AS3240: The Average Power Level of MS	B1275071619.C12 78271423	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
MS_PWR_LEV	ACCUMULATION	INT8	S3240: MS Power Rank	B1275071619.C12 78271421	Sum	hucsvbh, huctvbh
NONAMR_BTS_PWR_LEV_AVE	INTENSITY	FLOAT	AS3241NA: The Average BTS Power Level of Non-AMR Call	B1275071619.C12 78271454	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
NONAMR_BTS_PWR_LEV	ACCUMULATION	INT8	S3241NA: The BTS Power Level of Non-AMR Call	B1275071619.C12 78271452	Sum	hucsvbh, huctvbh
NONAMR_MS_PWR_LEV_AVE	INTENSITY	FLOAT	AS3240NA: The Average MS Power Level of Non-AMR Call	B1275071619.C12 78271453	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
NONAMR_MS_PWR_LEV	ACCUMULATION	INT8	S3240NA: The MS Power	B1275071619.C12 78271451	Sum	hucsvbh, huctvbh

			Level of Non-AMR Call			
PWR_CTRL_MR_NUM	ACCUMULATION	INT8	S329: Number of Power Control Messages	B1275071619.C1278271441	Sum	hucsvbh, huctvbh
REALTIME_WHEN_MAX_DOWN_PWR	ACCUMULATION	FLOAT	TS327B: Duration of Maximum Downlink Power	B1275071619.C1278271437	Sum	hucsvbh, huctvbh
REALTIME_WHEN_MAX_UP_PWR	ACCUMULATION	FLOAT	TS327A: Duration of Maximum Uplink Power	B1275071619.C1278271438	Sum	hucsvbh, huctvbh
TIME_WHEN_MAX_DOWN_PWR_AVR	INTENSITY	FLOAT	RS327B: Ratio of Maximum Downlink Power Duration (%)	B1275071619.C1278271435	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
TIME_WHEN_MAX_DOWN_PWR	ACCUMULATION	INTEGER	S327B: Number of Times (Maximum Downlink Transmit Power)	B1275071619.C1278271433	Sum	hucsvbh, huctvbh
TIME_WHEN_MAX_UP_PWR_AVR	INTENSITY	FLOAT	RS327A: Ratio of Maximum Uplink Power Duration (%)	B1275071619.C1278271436	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
TIME_WHEN_MAX_UP_PWR	ACCUMULATION	INTEGER	S327A: Number of Times	B1275071619.C1278271434	Sum	hucsvbh, huctvbh

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R			(Maximum Uplink Transmit Power)			
UL_SIG_QTY_AVR	INTENSITY	FLOAT	AS326A:Mean Quality of Uplink Signals	B1275071619.C1278271432	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
UL_SIG_QTY	ACCUMULATION	INT8	S326A:Quality of Uplink Signals	B1275071619.C1278271430	Sum	hucsvbh, huctvbh
UL_SIG_STRENGTH_AVR	INTENSITY	FLOAT	AS325A:Mean Strength of Uplink Signals	B1275071619.C1278271428	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
UL_SIG_STRENGTH	INTENSITY	INT8	S325A:Strength of Uplink Signals	B1275071619.C1278271426	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum

#### 7.9.114Cell.Huawei.GSM.Power\_saving

Measurement of the power-saving performance of the cell.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
DUR_OF_USING_ICB	ACCUMULATION	INT8	P3415:Duration of Using ICB	B1275071831.C1278483417	Sum	

#### 7.9.115Cell.Huawei.GSM.Power\_statistic

Power levels and overloads

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CALL_DROPS_HO_PWR_DEFICIT	ACCUMULATION	INT8	R3197: Number of Call Drops in the Handover due to Power Deficit	B1275071828.C12 82411789	Sum	hucsvbh, huctvbh
HO_CMD_PWR_DEFICIT	ACCUMULATION	INT8	R3195: Number of Handover Commands due to Power Deficit	B1275071828.C12 82411787	Sum	hucsvbh, huctvbh
Power_OverLoad_HO_req	ACCUMULATION	INT8	R3192: Number of Times Power OverLoad Handover Request	B1275071828.C12 78480418	Sum	hucsvbh, huctvbh
Power_OverLoad	ACCUMULATION	INT8	R3191: Number of Times Power OverLoad	B1275071828.C12 78480417	Sum	hucsvbh, huctvbh
SUCC_HO_PWR_DEFICIT	ACCUMULATION	INT8	R3196: Number of Successful Handovers due to Power Deficit	B1275071828.C12 82411788	Sum	hucsvbh, huctvbh
Up_RxLev_Merge_HO_req	ACCUMULATION	INTEGER	R3194: Number of Times Up RxLev Merge Handover Request	B1275071828.C12 78480420	Sum	hucsvbh, huctvbh
Up_RxLev_Merge	ACCUMULATION	INTEGER	R3193: Number of Times Up RxLev Merge	B1275071828.C12 78480419	Sum	hucsvbh, huctvbh

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### 7.9.116Cell.Huawei.GSM.PS\_MS\_radio\_access\_capability

This group provides the number of times that the MSs with radio access capability process the PS services in a cell.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
PROC_TIME_DL_ADV_RCVR_PERF	ACCUMULATION	INT8	A9705:Processing Times of PS Services by MSs Supporting Downlink Advanced Receiver Performance	B1275072535.C1279187421	Sum	
PROC_TIME_DL_EGPRS2_A	ACCUMULATION	INT8	A9736:Processing Times of PS Services by MSs Supporting downlink EGPRS2-A	B1275072535.C1282411762	Sum	
PROC_TIME_EGPRS_EXT_DYN_ALLOC	ACCUMULATION	INT8	A9702:Processing Times of PS Services by MSs Supporting EGPRS Extended Dynamic Allocation	B1275072535.C1279187418	Sum	
PROC_TIME_EXT_RLC_MAC_C_MSG_SEG_M	ACCUMULATION	INT8	A9706:Processing Times of PS Services by MSs Supporting Extended RLC/MAC Control Message Segmentation	B1275072535.C1279187422	Sum	
PROC_TIME_GPRS_EXT_DYN_ALLOC	ACCUMULATION	INT8	A9701:Processing Times of PS Services by MSs Supporting GPRS Extended Dynamic	B1275072535.C1279187417	Sum	

			Allocation			
PROC_TIME_MOD_BASED_MSLOT_CLS	ACCUMULATION	INT8	A9703:Processing Times of PS Services by MSs Supporting Modulation Based Multislot Class	B1275072535.C127 9187419	Sum	
PROC_TIME_MSLOT_CLS10_EGPRS	ACCUMULATION	INT8	A9717:Processing Times of PS Services by MSs Supporting Multislot Class 10 in DTM EGPRS	B1275072535.C127 9187433	Sum	
PROC_TIME_MSLOT_CLS10_GPRS	ACCUMULATION	INT8	A9712:Processing Times of PS Services by MSs Supporting Multislot Class 10 in DTM GPRS	B1275072535.C127 9187428	Sum	
PROC_TIME_MSLOT_CLS11_EGPRS	ACCUMULATION	INT8	A9718:Processing Times of PS Services by MSs Supporting Multislot Class 11 in DTM EGPRS	B1275072535.C127 9187434	Sum	
PROC_TIME_MSLOT_CLS11_GPRS	ACCUMULATION	INT8	A9713:Processing Times of PS Services by MSs Supporting Multislot Class 11 in DTM GPRS	B1275072535.C127 9187429	Sum	
PROC_TIME_MSLOT_CLS3	ACCUMULATION	INT8	A9719:Processing Times of PS	B1275072535.C127 9187435	Sum	

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0			Services by MSs Supporting Multislot Class 30			
PROC_TIME_MSLOT_CLS31_36_EGPRS	ACCUMULATION	INT8	A9728:Processing Times of PS Services by MSs Supporting Multislot Class 31 or 36 in DTM EGPRS	B1275072535.C1279187444	Sum	
PROC_TIME_MSLOT_CLS31_36_GPRS	ACCUMULATION	INT8	A9721:Processing Times of PS Services by MSs Supporting Multislot Class 31 or 36 in DTM GPRS	B1275072535.C1279187437	Sum	
PROC_TIME_MSLOT_CLS32_37_EGPRS	ACCUMULATION	INT8	A9729:Processing Times of PS Services by MSs Supporting Multislot Class 32 or 37 in DTM EGPRS	B1275072535.C1279187445	Sum	
PROC_TIME_MSLOT_CLS32_37_GPRS	ACCUMULATION	INT8	A9722:Processing Times of PS Services by MSs Supporting Multislot Class 32 or 37 in DTM GPRS	B1275072535.C1279187438	Sum	
PROC_TIME_MSLOT_CLS33_38_EGPRS	ACCUMULATION	INT8	A9730:Processing Times of PS Services by MSs Supporting Multislot Class 33 or 38 in DTM EGPRS	B1275072535.C1279187446	Sum	
PROC_TIME_MSLOT_CLS33_38_GPRS	ACCUMULATION	INT8	A9723:Processing Times of PS Services by MSs	B1275072535.C1279187439	Sum	

			Supporting Multislot Class 33 or 38 in DTM GPRS			
PROC_TIME_MSLOT_CLS41_EGPRS	ACCUMULATION	INT8	A9731:Processing Times of PS Services by MSs Supporting Multislot Class 41 in DTM EGPRS	B1275072535.C1279187447	Sum	
PROC_TIME_MSLOT_CLS41_GPRS	ACCUMULATION	INT8	A9724:Processing Times of PS Services by MSs Supporting Multislot Class 41 in DTM GPRS	B1275072535.C1279187440	Sum	
PROC_TIME_MSLOT_CLS42_EGPRS	ACCUMULATION	INT8	A9732:Processing Times of PS Services by MSs Supporting Multislot Class 42 in DTM EGPRS	B1275072535.C1279187448	Sum	
PROC_TIME_MSLOT_CLS42_GPRS	ACCUMULATION	INT8	A9725:Processing Times of PS Services by MSs Supporting Multislot Class 42 in DTM GPRS	B1275072535.C1279187441	Sum	
PROC_TIME_MSLOT_CLS43_EGPRS	ACCUMULATION	INT8	A9733:Processing Times of PS Services by MSs Supporting Multislot Class 43 in DTM EGPRS	B1275072535.C1279187449	Sum	

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			EGPRS			
PROC_TIME_MSLOT_CLS4_3_GPRS	ACCUMULATION	INT8	A9726:Processing Times of PS Services by MSs Supporting Multislot Class 43 in DTM GPRS	B1275072535.C1279187442	Sum	
PROC_TIME_MSLOT_CLS4_4_EGPRS	ACCUMULATION	INT8	A9734:Processing Times of PS Services by MSs Supporting Multislot Class 44 in DTM EGPRS	B1275072535.C1279187450	Sum	
PROC_TIME_MSLOT_CLS4_4_GPRS	ACCUMULATION	INT8	A9727:Processing Times of PS Services by MSs Supporting Multislot Class 44 in DTM GPRS	B1275072535.C1279187443	Sum	
PROC_TIME_MSLOT_CLS4_5	ACCUMULATION	INT8	A9720:Processing Times of PS Services by MSs Supporting Multislot Class 45	B1275072535.C1279187436	Sum	
PROC_TIME_MSLOT_CLS5_EGPRS	ACCUMULATION	INT8	A9714:Processing Times of PS Services by MSs Supporting Multislot Class 5 in DTM EGPRS	B1275072535.C1279187430	Sum	
PROC_TIME_MSLOT_CLS5_GPRS	ACCUMULATION	INT8	A9709:Processing Times of PS Services by MSs Supporting Multislot Class 5 in DTM GPRS	B1275072535.C1279187425	Sum	

PROC_TIME_MSLOT_CLS6_EGPRS	ACCUMULATION	INT8	A9715:Processing Times of PS Services by MSs Supporting Multislot Class 6 in DTM EGPRS	B1275072535.C1279187431	Sum	
PROC_TIME_MSLOT_CLS6_GPRS	ACCUMULATION	INT8	A9710:Processing Times of PS Services by MSs Supporting Multislot Class 6 in DTM GPRS	B1275072535.C1279187426	Sum	
PROC_TIME_MSLOT_CLS9_EGPRS	ACCUMULATION	INT8	A9716:Processing Times of PS Services by MSs Supporting Multislot Class 9 in DTM EGPRS	B1275072535.C1279187432	Sum	
PROC_TIME_MSLOT_CLS9_GPRS	ACCUMULATION	INT8	A9711:Processing Times of PS Services by MSs Supporting Multislot Class 9 in DTM GPRS	B1275072535.C1279187427	Sum	
PROC_TIME_MULTI_TBF_A_GB_MODE	ACCUMULATION	INT8	A9704:Processing Times of PS Services by MSs Supporting Multiple TBF Procedures in A/Gb Mode	B1275072535.C1279187420	Sum	
PROC_TIME_PS_HO	ACCUMULATION	INT8	A9707:Processing Times of PS Services by MSs Supporting PS Handover	B1275072535.C1279187423	Sum	

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PROC_TIME_SINGLE_SLOT_DTM	ACCUMULATION	INT8	A9708:Processing Times of PS Services by MSs Supporting Single Slot DTM	B1275072535.C1279187424	Sum	
PROC_TIME_UL_EGPRS2_A	ACCUMULATION	INT8	A9735:Processing Times of PS Services by MSs Supporting uplink EGPRS2-A	B1275072535.C1282411761	Sum	

### 7.9.117Cell.Huawei.GSM.Radio\_channel\_capability

Radio channel capability

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
RADIO_DL_PDTCH_CHANNEL_USE_TOTAL	ACCUMULATION	INT8	R9207:Total Number of Downlink PDTCH/PACCH Blocks	B1275072617.C1279269423	Sum	hucpcvbh, hucsvbh, huctvbh
RADIO_DOWN_PDTCH_CHANNEL_USE_RATE	INTENSITY	FLOAT	RR9209:Downlink PDTCH/PACCH Utilization (%)	B1275072617.C1279269425	Average	Average, hucpcvbh, hucsvbh, huctvbh, Maximum, Minimum, Sum
RADIO_PAGCH_AVG_QUEUE_LEN	INTENSITY	FLOAT	AR9214:Average PAGCH Queue Length	B1275072617.C1279269430	Average	Average, hucpcvbh, hucsvbh, huctvbh, Maximum, Minimum, Sum

RADIO_PAGCH_TOTAL_QUEUE_LEN	ACCUMULATION	INT8	R9213:Total Sampled PAGCH Queue Lengths	B1275072617.C1279269429	Sum	hucpcvvh, hucsvbh, huctvbh
RADIO_PDCH_AVG_USE_RATE	INTENSITY	FLOAT	RR9203:Average PDCH Utilization (%)	B1275072617.C1279269419	Average	Average, hucpcvvh, hucsvbh, huctvbh, Maximum, Minimum, Sum
RADIO_PDCH_IN_USE_BLK	ACCUMULATION	INT8	R9201:Number of RLC Data Blocks Used on PDCH	B1275072617.C1279269417	Sum	hucpcvvh, hucsvbh, huctvbh
RADIO_PDCH_QUEUE	ACCUMULATION	INT8	R9210:Sampling Times of PDCH Queue Length	B1275072617.C1279269426	Sum	hucpcvvh, hucsvbh, huctvbh
RADIO_PDCH_TOTAL_BLOCK	ACCUMULATION	INT8	R9202:Total Number of RLC Data Blocks on PDCH	B1275072617.C1279269418	Sum	hucsvbh, huctvbh
RADIO_PDTCH_AVG_QUEUE_LEN	INTENSITY	FLOAT	AR9216:Average PDTCH Queue Length	B1275072617.C1279269432	Average	Average, hucpcvvh, hucsvbh, huctvbh, Maximum, Minimum, Sum
RADIO_PDTCH_DOWNLINK_TX_BLK	ACCUMULATION	INT8	R9205:Number of RLC Data Blocks Sent on	B1275072617.C1279269421	Sum	hucpcvvh, hucsvbh,

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			Downlink PDTCH/PACC H			huctvbh
RADIO_PDTCH_TOTAL_QUEUE_LEN	ACCUMULATION	INT8	R9215:Total Sampled PDTCH Queue Lengths	B1275072617.C12 79269431	Sum	hucpcvbh, hucsvbh, huctvbh
RADIO_PDTCH_UPLINK_RX_BLK	ACCUMULATION	INT8	R9204:Number of RLC Data Blocks Received on Uplink PDTCH/PACC H	B1275072617.C12 79269420	Sum	hucpcvbh, hucsvbh, huctvbh
RADIO_PPCH_AVG_QUEUE_LEN	INTENSITY	FLOAT	AR9212:Avera ge PPCH Queue Length	B1275072617.C12 79269428	Average	Average, hucpcvbh, hucsvbh, huctvbh, Maximum, Minimum, Sum
RADIO_PPCH_TOTAL_QUEUE_LEN	ACCUMULATION	INT8	R9211:Total Sampled PPCH Queue Lengths	B1275072617.C12 79269427	Sum	hucpcvbh, hucsvbh, huctvbh
RADIO_UP_PDTCH_CHAN_USAGE_RATE	INTENSITY	FLOAT	RR9208:Uplink PDTCH/PACC H Utilization (%)	B1275072617.C12 79269424	Average	Average, hucpcvbh, hucsvbh, huctvbh, Maximum, Minimum, Sum
RADIO_UP_PDTCH_CHAN_USAGE_TOTAL	ACCUMULATION	INT8	R9206:Total Number of Uplink PDTCH/PACC H Blocks	B1275072617.C12 79269422	Sum	hucpcvbh, hucsvbh, huctvbh

**7.9.118Cell.Huawei.GSM.Rate\_of\_SDCCH\_call\_failures**

Call drops on SDCCH

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CALL_DROP_CONN_FAIL_ORIGIN_CALL_SD	ACCUMULATION	INTEGER	M3001F:Call Drops due to Connection Failure Received on SDCCH in Stable State (Call Initiation) (SDCCH)	B1275071438.C1278090422	Sum	hucsvbh, huctvbh
CALL_DROP_CONN_FAIL_RE_ESTAB_SD	ACCUMULATION	INTEGER	M3001H:Call Drops due to Connection Failure Received on SDCCH in Stable State (Call Re-establishment) (SDCCH)	B1275071438.C1278090424	Sum	hucsvbh, huctvbh
CALL_DROP_OTH_ORIGIN_CALL_SD	ACCUMULATION	INTEGER	M3003A:Call Drops due to Other Causes Received on SDCCH in Stable State (Call Initiation) (SDCCH)	B1275071438.C1278090432	Sum	hucsvbh, huctvbh
CALL_DROP_OTH_RE_ESTABLISH_SD	ACCUMULATION	INTEGER	M3003C:Call Drops due to Other Causes Received on SDCCH in Stable State	B1275071438.C1278090434	Sum	hucsvbh, huctvbh

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			(Call Re-establishment) (SDCCH)			
CALL_DROPS_CONN_FAIL_EMERGENCY_S D	ACCUMULATION	INTEGER	M3001I:Call Drops due to Connection Failure Received on SDCCH in Stable State (Emergency Call)(SDCCH)	B1275071438.C12 78090425	Sum	hucsvbh, huctvbh
CALL_DROPS_CONN_FAIL_NO_CALL_SD	ACCUMULATION	INTEGER	M3001J:Call Drops due to Connection Failure Received on SDCCH in Stable State (Non-Call Part) (SDCCH)	B1275071438.C12 78090426	Sum	hucsvbh, huctvbh
CALL_DROPS_CONN_FAIL_PAGING_RES_S D	ACCUMULATION	INTEGER	M3001G:Call Drops due to Connection Failure Received on SDCCH in Stable State (Paging Response) (SDCCH)	B1275071438.C12 78090423	Sum	hucsvbh, huctvbh
CALL_DROPS_ERR_IND_EMERGENCY_SD	ACCUMULATION	INTEGER	M3000G:Call Drops due to ERR IND Received on SDCCH in Stable State (Emergency Call)(SDCCH)	B1275071438.C12 78090420	Sum	hucsvbh, huctvbh
CALL_DROPS_ERR_IND_NO_CALL_SD	ACCUMULATION	INTEGER	M3000H:Call Drops due to ERR IND Received on	B1275071438.C12 78090421	Sum	hucsvbh, huctvbh

			SDCCH in Stable State (Non-Call Part) (SDCCH)			
CALL_DROPS_ERR_IND_ORIGIN_CALL_SD	ACCUMULATION	INTEGER	M3000D:Call Drops due to ERR IND Received on SDCCH in Stable State (Call Initiation) (SDCCH)	B1275071438.C1278090417	Sum	hucsvbh, huctvbh
CALL_DROPS_ERR_IND_PAGING_RES_SD	ACCUMULATION	INTEGER	M3000E:Call Drops due to ERR IND Received on SDCCH in Stable State (Paging Response) (SDCCH)	B1275071438.C1278090418	Sum	hucsvbh, huctvbh
CALL_DROPS_ERR_IND_RE_ESTABLISH_SD	ACCUMULATION	INTEGER	M3000F:Call Drops due to ERR IND Received on SDCCH in Stable State (Call Re-establishment) (SDCCH)	B1275071438.C1278090419	Sum	hucsvbh, huctvbh
CALL_DROPS_OTH_CAUSE_EMERGENCY_SD	ACCUMULATION	INTEGER	M3003D:Call Drops due to Other Causes Received on SDCCH in Stable State (Emergency Call)(SDCCH)	B1275071438.C1278090435	Sum	hucsvbh, huctvbh

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CALL_DROPS_OTH_CAUSE_PAGING_RES_SD	ACCUMULATION	INTEGER	M3003B:Call Drops due to Other Causes Received on SDCCH in Stable State (Paging Response) (SDCCH)	B1275071438.C12 78090433	Sum	hucsvbh, huctvbh
CALL_DROPS_OTHER_CAUSE_NO_CALL_SD	ACCUMULATION	INTEGER	M3003E:Call Drops due to Other Causes Received on SDCCH in Stable State (Non-Call Part) (SDCCH)	B1275071438.C12 78090436	Sum	hucsvbh, huctvbh
CALL_DROPS_REL_IND_EMERGENCY_SD	ACCUMULATION	INTEGER	M3002D:Call Drops due to Release Indication Received on SDCCH in Stable State (Emergency Call)(SDCCH)	B1275071438.C12 78090430	Sum	hucsvbh, huctvbh
CALL_DROPS_REL_IND_NO_CALL_SD	ACCUMULATION	INTEGER	M3002E:Call Drops due to Release Indication Received on SDCCH in Stable State (Non-Call Part) (SDCCH)	B1275071438.C12 78090431	Sum	hucsvbh, huctvbh
CALL_DROPS_REL_IND_ORIGIN_CALL_SD	ACCUMULATION	INTEGER	M3002A:Call Drops due to Release Indication Received on SDCCH in Stable State (Call Initiation)	B1275071438.C12 78090427	Sum	hucsvbh, huctvbh

			(SDCCH)			
CALL_DROPS_REL_IND_PAGING_RES_SD	ACCUMULATION	INTEGER	M3002B:Call Drops due to Release Indication Received on SDCCH in Stable State (Paging Response) (SDCCH)	B1275071438.C1278090428	Sum	hucsvbh, huctvbh
CALL_DROPS_REL_IND_RE_ESTABLISH_SD	ACCUMULATION	INTEGER	M3002C:Call Drops due to Release Indication Received on SDCCH in Stable State (Call Re-establishment) (SDCCH)	B1275071438.C1278090429	Sum	hucsvbh, huctvbh
CD_SDCCH_OTHER	ACCUMULATION	INT8	M3020D:Call Drops on SDCCH(Other)	B1275071438.C1278090444	Sum	hucsvbh, huctvbh
CD_SDCCH_QUALITY	ACCUMULATION	INT8	M3020C:Call Drops on SDCCH(Quality)	B1275071438.C1278090443	Sum	hucsvbh, huctvbh
CD_SDCCH_RX_LEVEL	ACCUMULATION	INT8	M3020B:Call Drops on SDCCH(Received Level)	B1275071438.C1278090442	Sum	hucsvbh, huctvbh
CD_SDCCH_TA	ACCUMULATION	INT8	M3020A:Call Drops on SDCCH(TA)	B1275071438.C1278090441	Sum	hucsvbh, huctvbh
SD_CALL_DROP_CALL	INTENSITY	FLOAT	ZTR104B:Call Drop Rate on	B1275071438.C1278090440	Average	Average, hucsvbh,

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			SDCCH (Call Type)			huctvbh, Maximum, Minimum, Sum
SD_CALL_DROPS_CALL	ACCUMULATION	INT8	CM30C:Call Drops on SDCCH (Call Type)	B1275071438.C1278090437	Sum	hucsvbh, huctvbh
SD_SUCC_CALL	ACCUMULATION	INT8	K3003A:Successful SDCCH Seizures (Call Type)	B1275071438.C1278090439	Sum	hucsvbh, huctvbh
SD_UM_CALL_DROPS_CALL	ACCUMULATION	INT8	CM30D:Call Drops on Radio Interface (SDCCH)(Call Type)	B1275071438.C1278090438	Sum	hucsvbh, huctvbh

### 7.9.119Cell.Huawei.GSM.Resource\_maintenance\_capability

Resource maintenance capability

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
BLOCK_FROM_BSC	ACCUMULATION	INT8	R9002:Number of Packet Cells Blocked by BSC	B1275072533.C1279185418	Sum	hucsvbh, huctvbh
CHAN_BLOCK_FROM_BSC	ACCUMULATION	INT8	R9006:Number of Packet Channels Blocked by BSC	B1275072533.C1279185422	Sum	hucsvbh, huctvbh
CHAN_UNLOCK_FROM_BSC	ACCUMULATION	INT8	R9007:Number of Packet Channels Unblocked by BSC	B1275072533.C1279185423	Sum	hucsvbh, huctvbh
PDCHS_OUT_	ACCUMULATION	INT8	R9008:Numble	B1275072533.C127	Sum	hucsvbh,

OF_STEP	TION		of PDCHs Out of Step	9185424		huctvbh
RESET_FROM_BSC	ACCUMULATION	INT8	R9001: Number of Packet Cell Resets by BSC	B1275072533.C1279185417	Sum	hucsvbh, huctvbh
UNLOCK_BLOCK_FROM_BSC	ACCUMULATION	INT8	R9003: Number of Packet Cells Unlocked by BSC	B1275072533.C1279185419	Sum	hucsvbh, huctvbh

**7.9.120Cell.Huawei.GSM.RLC\_data\_transfer\_cap**

Release Complete data transfer capability

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
DAS10_RLC_DATA_BLK	ACCUMULATION	INT8	L9346: Total Number of Downlink EGPRS DAS10 RLC Data Blocks	B1275072528.C1282411739	Sum	hucedvbh, hucevvh, hucgdvvh, hucguvvh
DAS11_RLC_DATA_BLK	ACCUMULATION	INT8	L9347: Total Number of Downlink EGPRS DAS11 RLC Data Blocks	B1275072528.C1282411740	Sum	hucedvbh, hucevvh, hucgdvvh, hucguvvh
DAS12_RLC_DATA_BLK	ACCUMULATION	INT8	L9348: Total Number of Downlink EGPRS DAS12 RLC Data	B1275072528.C1282411741	Sum	hucedvbh, hucevvh, hucgdvvh

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			Blocks			h, hucgvb h
DAS5_RLC_DATA_BLK	ACCUMULATION	INT8	L9341:Total Number of Downlink EGPRS DAS5 RLC Data Blocks	B1275072528.C12 82411734	Sum	hucedvb h, huceuvb h, hucgdvb h, hucgvb h
DAS6_RLC_DATA_BLK	ACCUMULATION	INT8	L9342:Total Number of Downlink EGPRS DAS6 RLC Data Blocks	B1275072528.C12 82411735	Sum	hucedvb h, huceuvb h, hucgdvb h, hucgvb h
DAS7_RLC_DATA_BLK	ACCUMULATION	INT8	L9343:Total Number of Downlink EGPRS DAS7 RLC Data Blocks	B1275072528.C12 82411736	Sum	hucedvb h, huceuvb h, hucgdvb h, hucgvb h
DAS8_RLC_DATA_BLK	ACCUMULATION	INT8	L9344:Total Number of Downlink EGPRS DAS8 RLC Data Blocks	B1275072528.C12 82411737	Sum	hucedvb h, huceuvb h, hucgdvb h, hucgvb h
DAS9_RLC_DATA_BLK	ACCUMULATION	INT8	L9345:Total Number of Downlink EGPRS DAS9 RLC Data Blocks	B1275072528.C12 82411738	Sum	hucedvb h, huceuvb h, hucgdvb h, hucgvb h

DOWN_EGPRS_MCS1_RLC_DATA_BLK	ACCUMULATION	INT8	L9302:Total Number of Downlink EGPRS MCS1 RLC Data Blocks	B1275072528.C1279180418	Sum	hucedvbh, huceuvbh, hucgdvvh, hucguvbh
DOWN_EGPRS_MCS2_RLC_DATA_BLK	ACCUMULATION	INT8	L9303:Total Number of Downlink EGPRS MCS2 RLC Data Blocks	B1275072528.C1279180419	Sum	hucedvbh, huceuvbh, hucgdvvh, hucguvbh
DOWN_EGPRS_MCS3_RLC_DATA_BLK	ACCUMULATION	INT8	L9304:Total Number of Downlink EGPRS MCS3 RLC Data Blocks	B1275072528.C1279180420	Sum	hucedvbh, huceuvbh, hucgdvvh, hucguvbh
DOWN_EGPRS_MCS4_RLC_DATA_BLK	ACCUMULATION	INT8	L9305:Total Number of Downlink EGPRS MCS4 RLC Data Blocks	B1275072528.C1279180421	Sum	hucedvbh, huceuvbh, hucgdvvh, hucguvbh
DOWN_EGPRS_MCS5_RLC_DATA_BLK	ACCUMULATION	INT8	L9306:Total Number of Downlink EGPRS MCS5 RLC Data Blocks	B1275072528.C1279180422	Sum	hucedvbh, huceuvbh, hucgdvvh, hucguvbh

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						h
DOWN_EGPRS_MCS6_RLC_DATA_BLK	ACCUMULATION	INT8	L9307:Total Number of Downlink EGPRS MCS6 RLC data blocks	B1275072528.C1279180423	Sum	hucedvbh, huceuvbh, hucgdvbh, hucguvbh
DOWN_EGPRS_MCS7_RLC_DATA_BLK	ACCUMULATION	INT8	L9308:Total Number of Downlink EGPRS MCS7 RLC Data Blocks	B1275072528.C1279180424	Sum	hucedvbh, huceuvbh, hucgdvbh, hucguvbh
DOWN_EGPRS_MCS8_RLC_DATA_BLK	ACCUMULATION	INT8	L9309:Total Number of Downlink EGPRS MCS8 RLC Data Blocks	B1275072528.C1279180425	Sum	hucedvbh, huceuvbh, hucgdvbh, hucguvbh
DOWN_EGPRS_MCS9_RLC_DATA_BLK	ACCUMULATION	INT8	L9310:Total Number of Downlink EGPRS MCS9 RLC Data Blocks	B1275072528.C1279180426	Sum	hucedvbh, huceuvbh, hucgdvbh, hucguvbh
DOWN_EGPRS_RLC_AVG_THRPUT_RATE	INTENSITY	FLOAT	TL9333:Average Throughput of Downlink EGPRS RLC (kbit/s)	B1275072528.C1279180449	Average	Average, hucedvbh, huceuvbh, hucgdvbh, hucguvbh, Maximu

						m, Minimu m, Sum
DOWN_EGPRS _RLC_NULL_B LK_NUM	ACCUMULA TION	INT8	L9332: Number of Downlink EGPRS RLC Dummy Blocks	B1275072528.C12 79180448	Sum	hucedvb h, huceuvb h, hucgdvb h, hucguvb h
DOWN_EGPRS _RLC_SIG_B LK_NUM	ACCUMULA TION	INT8	L9331: Number of Downlink EGPRS RLC Control Blocks	B1275072528.C12 79180447	Sum	hucedvb h, huceuvb h, hucgdvb h, hucguvb h
DOWN_EGPRS _TBF_MCS_DE GRADE_NUM	ACCUMULA TION	INT8	L9330: Number of MCS Degrades on Downlink EGPRS TBF	B1275072528.C12 79180446	Sum	hucedvb h, huceuvb h, hucgdvb h, hucguvb h
DOWN_EGPRS _TBF_MCS_UP GRADE_NUM	ACCUMULA TION	INT8	L9329: Number of MCS Upgrades on Downlink EGPRS TBF	B1275072528.C12 79180445	Sum	hucedvb h, huceuvb h, hucgdvb h, hucguvb h
MCS1_RLC_D ATA_BLK_RES END_RATE	INTENSITY	FLOA T	RL9320: Retran smission Rate of Downlink	B1275072528.C12 79180436	Average	Average, hucedvb h,

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			EGPRS MCS1 RLC Data Blocks (%)			hucevbh, hucgdvbh, hucguvbh, Maximum, Minimum, Sum
MCS1_RLC_DATA_BLK_VALID_TOTAL	ACCUMULATION	INT8	L9311:Total Number of Valid Downlink EGPRS MCS1 RLC Data Blocks	B1275072528.C1279180427	Sum	hucedvbh, hucevbh, hucgdvbh, hucguvbh
MCS2_RLC_DATA_BLK_RESEND_RATE	INTENSITY	FLOAT	RL9321:Retransmission Rate of Downlink EGPRS MCS2 RLC Data Blocks (%)	B1275072528.C1279180437	Average	Average, hucedvbh, hucevbh, hucgdvbh, hucguvbh, Maximum, Minimum, Sum
MCS2_RLC_DATA_BLK_VALID_TOTAL	ACCUMULATION	INT8	L9312:Total Number of Valid Downlink EGPRS MCS2 RLC Data Blocks	B1275072528.C1279180428	Sum	hucedvbh, hucevbh, hucgdvbh, hucguvbh
MCS3_RLC_DATA_BLK_RESEND_RATE	INTENSITY	FLOAT	RL9322:Retransmission Rate of Downlink EGPRS MCS3	B1275072528.C1279180438	Average	Average, hucedvbh, hucevbh

			RLC Data Blocks (%)			h, hucgdvb h, hucguvb h, Maximum, Minimum, Sum
MCS3_RLC_DATA_BLK_VALID_TOTAL	ACCUMULATION	INT8	L9313:Total Number of Valid Downlink EGPRS MCS3 RLC Data Blocks	B1275072528.C1279180429	Sum	hucedvb h, huceuvb h, hucgdvb h, hucguvb h
MCS4_RLC_DATA_BLK_RESEND_RATE	INTENSITY	FLOAT	RL9323:Retransmission Rate of Downlink EGPRS MCS4 RLC Data Blocks (%)	B1275072528.C1279180439	Average	Average, hucedvb h, huceuvb h, hucgdvb h, hucguvb h, Maximum, Minimum, Sum
MCS4_RLC_DATA_BLK_VALID_TOTAL	ACCUMULATION	INT8	L9314:Total Number of Valid Downlink EGPRS MCS4 RLC Data Blocks	B1275072528.C1279180430	Sum	hucedvb h, huceuvb h, hucgdvb h, hucguvb h
MCS5_RLC_D	INTENSITY	FLOA	RL9324:Retran	B1275072528.C12	Average	Average,

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ATA_BLK_RES END_RATE		T	Transmission Rate of Downlink EGPRS MCS5 RLC Data Blocks (%)	79180440		hucdvb h, hucevb h, hucgdvb h, hucguvb h, Maximum, Minimum, Sum
MCS5_RLC_D ATA_BLK_VA LID_TOTAL	ACCUMULA TION	INT8	L9315:Total Number of Valid Downlink EGPRS MCS5 RLC Data Blocks	B1275072528.C12 79180431	Sum	hucdvb h, hucevb h, hucgdvb h, hucguvb h
MCS6_RLC_D ATA_BLK_RES END_RATE	INTENSITY	FLOA T	RL9325:Retran smission Rate of Downlink EGPRS MCS6 RLC Data Blocks (%)	B1275072528.C12 79180441	Average	Average, hucdvb h, hucevb h, hucgdvb h, hucguvb h, Maximum, Minimum, Sum
MCS6_RLC_D ATA_BLK_VA LID_TOTAL	ACCUMULA TION	INT8	L9316:Total Number of Valid Downlink EGPRS MCS6 RLC Data Blocks	B1275072528.C12 79180432	Sum	hucdvb h, hucevb h, hucgdvb h, hucguvb h
MCS7_RLC_D ATA_BLK_RES	INTENSITY	FLOA T	RL9326:Retran smission Rate	B1275072528.C12 79180442	Average	Average, hucdvb

END_RATE			of Downlink EGPRS MCS7 RLC Data Blocks (%)			h, hucevvh, hucgdvh, hucguvh, Maximum, Minimum, Sum
MCS7_RLC_DATA_BLK_VALID_TOTAL	ACCUMULATION	INT8	L9317:Total Number of Valid Downlink EGPRS MCS7 RLC Data Blocks	B1275072528.C1279180433	Sum	hucedvvh, hucevvh, hucgdvh, hucguvh
MCS8_RLC_DATA_BLK_RESEND_RATE	INTENSITY	FLOAT	RL9327:Retransmission Rate of Downlink EGPRS MCS8 RLC Data Blocks (%)	B1275072528.C1279180443	Average	Average, hucedvvh, hucevvh, hucgdvh, hucguvh, Maximum, Minimum, Sum
MCS8_RLC_DATA_BLK_VALID_TOTAL	ACCUMULATION	INT8	L9318:Total Number of Valid Downlink EGPRS MCS8 RLC Data Blocks	B1275072528.C1279180434	Sum	hucedvvh, hucevvh, hucgdvh, hucguvh

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MCS9_RLC_DATA_BLK_RES END_RATE	INTENSITY	FLOAT	RL9328:Retran mission Rate of Downlink EGPRS MCS9 RLC Data Blocks (%)	B1275072528.C12 79180444	Average	Average, hucedvb h, huceuvb h, hucgdvb h, hucguvb h, Maximum, Minimum, Sum
MCS9_RLC_DATA_BLK_VALID_TOTAL	ACCUMULATION	INT8	L9319:Total Number of Valid Downlink EGPRS MCS9 RLC Data Blocks	B1275072528.C12 79180435	Sum	hucedvb h, huceuvb h, hucgdvb h, hucguvb h
RETX_RATE_DAS10_RLC_DATA_BLK	INTENSITY	FLOAT	RL9362:Retran mission Rate of Downlink EGPRS DAS10 RLC Data Blocks	B1275072528.C12 82423945	Average	hucedvb h, huceuvb h, hucgdvb h, hucguvb h, Sum, Minimum, Maximum
RETX_RATE_DAS11_RLC_DATA_BLK	INTENSITY	FLOAT	RL9363:Retran mission Rate of Downlink EGPRS DAS11 RLC Data Blocks	B1275072528.C12 82423946	Average	hucedvb h, huceuvb h, hucgdvb h, hucguvb h, Sum, Minimum, Maximum

						m
RETX_RATE_DAS12_RLC_DATA_BLK	INTENSITY	FLOAT	RL9364:Retransmission Rate of Downlink EGPRS DAS12 RLC Data Blocks	B1275072528.C1282423947	Average	hucdvb h, hucevvh, hucgdvh, hucguvh, Sum, Minimum, Maximum
RETX_RATE_DAS5_RLC_DATA_BLK	INTENSITY	FLOAT	RL9357:Retransmission Rate of Downlink EGPRS DAS5 RLC Data Blocks	B1275072528.C1282423940	Average	hucdvb h, hucevvh, hucgdvh, hucguvh, Sum, Minimum, Maximum
RETX_RATE_DAS6_RLC_DATA_BLK	INTENSITY	FLOAT	RL9358:Retransmission Rate of Downlink EGPRS DAS6 RLC Data Blocks	B1275072528.C1282423941	Average	hucdvb h, hucevvh, hucgdvh, hucguvh, Sum, Minimum, Maximum
RETX_RATE_DAS7_RLC_DATA_BLK	INTENSITY	FLOAT	RL9359:Retransmission Rate	B1275072528.C1282423942	Average	hucdvb h,

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A_BLK			of Downlink EGPRS DAS7 RLC Data Blocks			hucevvh, hucgdvh, hucguvh, Sum, Minimum, Maximum
RETX_RATE_D AS8_RLC_DATA A_BLK	INTENSITY	FLOAT	RL9360:Retran mission Rate of Downlink EGPRS DAS8 RLC Data Blocks	B1275072528.C12 82423943	Average	hucedvvh, hucevvh, hucgdvh, hucguvh, Sum, Minimum, Maximum
RETX_RATE_D AS9_RLC_DATA A_BLK	INTENSITY	FLOAT	RL9361:Retran mission Rate of Downlink EGPRS DAS9 RLC Data Blocks	B1275072528.C12 82423944	Average	hucedvvh, hucevvh, hucgdvh, hucguvh, Sum, Minimum, Maximum
RETX_RATE_O F_RLC_DATA_ BLK	INTENSITY	FLOAT	RL9337:Retran mission Rate of Downlink EGPRS RLC Data Blocks	B1275072528.C12 79180453	Average	hucedvvh, hucevvh, hucgdvh, hucguvh, Sum, Minimum,

						Maximum
RLC_DATA_BLOCK_TOTAL	ACCUMULATION	INT8	L9301:Total Number of Downlink EGPRS RLC Data Blocks	B1275072528.C1279180417	Sum	hucevbh, hucgdvbh, hucguvbh
RLC_SGL_TBF_AVG_THRPUT	INTENSITY	FLOAT	TL9334:Average Payload of Single Downlink EGPRS TBF (KB)	B1275072528.C1279180450	Average	Average, hucedvbh, hucevvh, hucgdvbh, hucguvbh, Maximum, Minimum, Sum
THROUGHPUT_OF_RLC_DATA_BLK	INTENSITY	FLOAT	TL9338:Throughput of Downlink EGPRS RLC Data Blocks	B1275072528.C1279180454	Average	hucedvbh, hucevvh, hucgdvbh, hucguvbh, Sum, Minimum, Maximum
TOT_DUR_DL_EGPRS_TBF	ACCUMULATION	INT8	L9336:Total Duration of Downlink EGPRS TBFs (s)	B1275072528.C1279180452	Sum	hucedvbh, hucevvh, hucgdvbh,

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						hucgvb h
TOT_V_DL_EG PRS_DAS_RLC	ACCUMULA TION	INT8	Total Number of Valid Downlink EGPRS DAS RLC Data Blocks	B1275072528.C12 82411743 + C1282411744 + C1282411745 + C1282411746 + C1282411747 + C1282411748 + C1282411749 + C1282411750	Sum	hucedvb h, huceuvb h, hucgdvb h, hucgvb h
TOT_V_DL_EG PRS_MCS_RLC	ACCUMULA TION	INT8	Total Number of Valid Downlink EGPRS MCS RLC Data Blocks	B1275072528.C12 79180427 + C1279180428 + C1279180429 + C1279180430 + C1279180431 + C1279180432 + C1279180433 + C1279180434 + C1279180435	Sum	hucedvb h, huceuvb h, hucgdvb h, hucgvb h
TOTAL_TBF	ACCUMULA TION	INT8	L9335:Total Number of Downlink EGPRS TBFs	B1275072528.C12 79180451	Sum	hucedvb h, huceuvb h, hucgdvb h, hucgvb h
VALID_DAS10 _RLC_DATA_B LK	ACCUMULA TION	INT8	L9354:Total Number of Valid Downlink EGPRS DAS10 RLC Data Blocks	B1275072528.C12 82411748	Sum	hucedvb h, huceuvb h, hucgdvb h, hucgvb h
VALID_DAS11 _RLC_DATA_B LK	ACCUMULA TION	INT8	L9355:Total Number of Valid Downlink EGPRS DAS11 RLC Data Blocks	B1275072528.C12 82411749	Sum	hucedvb h, huceuvb h, hucgdvb h,

						hucgvb h
VALID_DAS12_RLC_DATA_BLOCK	ACCUMULATION	INT8	L9356:Total Number of Valid Downlink EGPRS DAS12 RLC Data Blocks	B1275072528.C12 82411750	Sum	hucedvb h, huceuvb h, hucgdvb h, hucgvb h
VALID_DAS5_RLC_DATA_BLOCK	ACCUMULATION	INT8	L9349:Total Number of Valid Downlink EGPRS DAS5 RLC Data Blocks	B1275072528.C12 82411743	Sum	hucedvb h, huceuvb h, hucgdvb h, hucgvb h
VALID_DAS6_RLC_DATA_BLOCK	ACCUMULATION	INT8	L9350:Total Number of Valid Downlink EGPRS DAS6 RLC Data Blocks	B1275072528.C12 82411744	Sum	hucedvb h, huceuvb h, hucgdvb h, hucgvb h
VALID_DAS7_RLC_DATA_BLOCK	ACCUMULATION	INT8	L9351:Total Number of Valid Downlink EGPRS DAS7 RLC Data Blocks	B1275072528.C12 82411745	Sum	hucedvb h, huceuvb h, hucgdvb h, hucgvb h
VALID_DAS8_RLC_DATA_BLOCK	ACCUMULATION	INT8	L9352:Total Number of Valid Downlink EGPRS DAS8	B1275072528.C12 82411746	Sum	hucedvb h, huceuvb h,

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			RLC Data Blocks			hucgdvb h, hucguvb h
VALID_DAS9_RLC_DATA_BLOCK	ACCUMULATION	INT8	L9353:Total Number of Valid Downlink EGPRS DAS9 RLC Data Blocks	B1275072528.C1282411747	Sum	hucedvb h, huceuvb h, hucgdvb h, hucguvb h

### 7.9.121Cell.Huawei.GSM.Short\_message

Short Message messages

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
DL_Pt_to_Pt_SMS_SD	ACCUMULATION	INT8	A3340B:Downlink Point-to-Point Short Messages on SDCCH	B1275071419.C1278071418	Sum	hucsvbh, huctvbh
DL_Pt_to_Pt_SMS_TCH	ACCUMULATION	INT8	A3349B:Downlink Point-to-Point Short Messages on TCH	B1275071419.C1278071420	Sum	hucsvbh, huctvbh
DL_Pt_to_Pt_SMS	ACCUMULATION	INT8	CA334B:Total Downlink Point-to-Point Short Messages	B1275071419.C1278071422	Sum	hucsvbh, huctvbh
Pt_to_Pt_SMS_SD	ACCUMULATION	INT8	CA3340:Point-to-Point Short Messages on SDCCH	B1275071419.C1278071423	Sum	hucsvbh, huctvbh
Pt_to_Pt_SMS_TCH	ACCUMULATION	INT8	CA3349:Point-to-Point Short Messages on TCH	B1275071419.C1278071424	Sum	hucsvbh, huctvbh

UL_Pt_to_Pt_SMS_SD	ACCUMULATION	INT8	A3340A:Uplink Point-to-Point Short Messages on SDCCH	B1275071419.C1278071417	Sum	hucsvbh, huctvbh
UL_Pt_to_Pt_SMS_TCH	ACCUMULATION	INT8	A3349A:Uplink Point-to-Point Short Messages on TCH	B1275071419.C1278071419	Sum	hucsvbh, huctvbh
UL_Pt_to_Pt_SMS	ACCUMULATION	INT8	CA334A:Total Uplink Point-to-Point Short Messages	B1275071419.C1278071421	Sum	hucsvbh, huctvbh

### 7.9.122Cell.Huawei.GSM.Speech\_disconnections\_per\_cell

Measurement of the proportion of speech disconnections because of bad quality, after the BSC receives the Clear CMD message from the MSC.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
BAD_SPCH_QUALITY_DISCONN	ACCUMULATION	INT8	A03702:Bad Speech Quality Disconnections	B1275071532.C1278184418	Sum	hucsvbh, huctvbh
Disc_Messages_Rcvd_from_MS_C_MO	ACCUMULATION	INTEGER	A3712:Number of Disconnect Messages Received from MSC (Mobile Originated)	B1275071532.C1282429857	Sum	
Disc_Messages_Rcvd_from_MS_C_MT	ACCUMULATION	INTEGER	A3713:Number of Disconnect Messages Received from MSC (Mobile Terminated)	B1275071532.C1282429858	Sum	
NORMAL_SPC	ACCUMULATION	INT8	A03701:Normal	B1275071532.C12	Sum	hucsvbh,

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H_DISCONN	TION		Speech Disconnections	78184417		huctvbh
RATIO_BAD_S PCH_QUAL_DI SCONN	INTENSITY	FLOA T	A03703:Ratio of Bad Speech Quality Disconnections .Obsolete in V900R011.	B1275071532.C12 78184419	Average	hucsvbh, huctvbh, Sum, Minimu m, Maximu m
SPCH_DISCON N_CIRCUIT_U NAVL	ACCUMULA TION	INT8	A03707:Numbe r of Speech Disconnections (Circuit Unavailable)	B1275071532.C12 82412163	Sum	hucsvbh, huctvbh
SPCH_DISCON N_NORMAL	ACCUMULA TION	INT8	A03705:Numbe r of Speech Disconnections (Normal )	B1275071532.C12 82412168	Sum	hucsvbh, huctvbh
SPCH_DISCON N_ODB_TIME X	ACCUMULA TION	INT8	A03710:Numbe r of Speech Disconnections (Operator Determined Barring or Timer Expiry)	B1275071532.C12 82412166	Sum	hucsvbh, huctvbh
SPCH_DISCON N_RES_UNAV L	ACCUMULA TION	INT8	A03708:Numbe r of Speech Disconnections (Resource Unavailable)	B1275071532.C12 82412164	Sum	hucsvbh, huctvbh
SPCH_DISCON N_RQ_CKT_U NAVL	ACCUMULA TION	INT8	A03711:Numbe r of Speech Disconnections (Requested Circuit Unavailable)	B1275071532.C12 82412167	Sum	hucsvbh, huctvbh
SPCH_DISCON N_TEMPORAR Y_FAIL	ACCUMULA TION	INT8	A03706:Numbe r of Speech Disconnections (Temporary Failure)	B1275071532.C12 82412162	Sum	hucsvbh, huctvbh

SPCH_DISCON N_UNSPECIFI ED	ACCUMULA TION	INT8	A03709:Numbe r of Speech Disconnections (Unspecified)	B1275071532.C12 82412165	Sum	hucsvbh, huctvbh
SPCH_DISCON N	ACCUMULA TION	INT8	A03704:Numbe r of Speech Disconnections	B1275071532.C12 82412161	Sum	hucsvbh, huctvbh

### 7.9.123Cell.Huawei.GSM.TBF\_estab\_and\_RLS\_cap

TBF establishment and Release capability

KPI	Type	Data Type	Description	Derivation	Default Aggrega tor	Other Aggrega tors
DL_ABNRM_ REL_ABIS_RE S_PREEMPT	ACCUMULA TION	INT8	A9336:Number of Abnormal Downlink EGPRS TBF Releases due to Abis Resource Preemption	B1275072524.C12 82411783	Sum	hucedvb h, huceuvb h, hucgdvb h, hucguvb h
DL_ABNRM_ REL_CS_HO	ACCUMULA TION	INT8	A9335:Number of Abnormal downlink EGPRS TBF Releases due to CS Handover	B1275072524.C12 79176451	Sum	hucedvb h, huceuvb h, hucgdvb h, hucguvb h
DL_EGPRS_T BF_AB_REL_ OTH_FLOW_ CTRL	ACCUMULA TION	INTEG ER	A9329:Number of Downlink EGPRS TBF Abnormal Releases due to other cause(flow ctrl) .Obsolete	B1275072524.C12 79176445	Sum	hucedvb h, huceuvb h, hucgdvb h, hucguvb h

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			in V900R011.			
DL_EGPRS_T BF_AB_REL_ OTH_GRRM_ REL_RQ	ACCUMULA TION	INTEG ER	A9331:Number of Downlink EGPRS TBF Abnormal Releases due to other cause(grrm tbf rel req) .Obsolete in V900R011.	B1275072524.C12 79176447	Sum	hucedvb h, huceuvb h, hucgdvb h, hucguvb h
DL_EGPRS_T BF_AB_REL_ OTH_INTRA_ REL	ACCUMULA TION	INTEG ER	A9330:Number of Downlink EGPRS TBF Abnormal Releases due to other cause(intra rel) .Obsolete in V900R011.	B1275072524.C12 79176446	Sum	hucedvb h, huceuvb h, hucgdvb h, hucguvb h
DL_EGPRS_T BF_ABNRM_ REL_OTHCA US	ACCUMULA TION	INT8	A9317:Number of Downlink EGPRS TBF Abnormal Releases due to other cause	B1275072524.C12 79176433	Sum	hucedvb h, huceuvb h, hucgdvb h, hucguvb h
DL_EGPRS_T BF_ABNRM_ REL_PREEMP T	ACCUMULA TION	INT8	A9316:Number of Downlink EGPRS TBF Abnormal Releases due to channel preempt	B1275072524.C12 79176432	Sum	hucedvb h, huceuvb h, hucgdvb h, hucguvb h
DL_EGPRS_T BF_ESTB_FAI L_OTHCAUS	ACCUMULA TION	INT8	A9315:Number of Failed Downlink EGPRS TBF Establishments due to other cause	B1275072524.C12 79176431	Sum	hucedvb h, huceuvb h, hucgdvb h, hucguvb

						h
DL_EGPRS_TRANS_INTERRUPT	ACCUMULATION	INT8	A9318: Number of Downlink EGPRS intermit transfers	B1275072524.C1279176434	Sum	hucedvbh, huceuvbh, hucgdvbh, hucguvbh
DL_ESTB_FAIL_OTH_FLOW_CTRL	ACCUMULATION	INTEGER	A9321: Number of Failed Downlink EGPRS TBF Establishments due to other cause(flow ctrl) .Obsolete in V900R011.	B1275072524.C1279176437	Sum	hucedvbh, huceuvbh, hucgdvbh, hucguvbh
DL_ESTB_FAIL_OTH_GRRM_REL_RQ	ACCUMULATION	INTEGER	A9320: Number of Failed Downlink EGPRS TBF Establishments due to other cause(grm tbf rel req) .Obsolete in V900R011.	B1275072524.C1279176436	Sum	hucedvbh, huceuvbh, hucgdvbh, hucguvbh
DL_ESTB_FAIL_OTH_GRRM_RES_REJ	ACCUMULATION	INTEGER	A9319: Number of Failed Downlink EGPRS TBF Establishments due to other cause(grm dl res rej) .Obsolete in V900R011.	B1275072524.C1279176435	Sum	hucedvbh, huceuvbh, hucgdvbh, hucguvbh

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DL_ESTB_FAIL_OTH_INCONS	ACCUMULATION	INTEGER	A9323: Number of Failed Downlink EGPRS TBF Establishments due to other cause (state inconsistent) .Obsolete in V900R011.	B1275072524.C1279176439	Sum	hucedvbh, huceuvbh, hucgdvbh, hucguvbh
DL_ESTB_FAIL_OTH_INTR_A_REL	ACCUMULATION	INTEGER	A9322: Number of Failed Downlink EGPRS TBF Establishments due to other cause (intra rel) .Obsolete in V900R011.	B1275072524.C1279176438	Sum	hucedvbh, huceuvbh, hucgdvbh, hucguvbh
DL_ESTB_FAIL_OTH_MS_RESP_RASG	ACCUMULATION	INTEGER	A9334: Number of Failed Downlink EGPRS TBF Establishments due to Other Causes (MS Responding with Resource Assignment Failure) .Obsolete in V900R011.	B1275072524.C1279176450	Sum	hucedvbh, huceuvbh, hucgdvbh, hucguvbh
DL_ESTB_FAIL_OTH_MS_SEND_RASG	ACCUMULATION	INTEGER	A9333: Number of Failed Downlink EGPRS TBF Establishments due to Other Causes (MSIP Sending Resource Assignment Fails) .Obsolete in V900R011.	B1275072524.C1279176449	Sum	hucedvbh, huceuvbh, hucgdvbh, hucguvbh

DL_ESTB_FAIL_OTH_MSG_ERR	ACCUMULATION	INTEGER	A9326: Number of Failed Downlink EGPRS TBF Establishments due to other cause(msg err) .Obsolete in V900R011.	B1275072524.C12 79176442	Sum	hucedvbh, huceuvbh, hucgdvbh, hucguvbh
DL_ESTB_FAIL_OTH_Q_FULL	ACCUMULATION	INTEGER	A9327: Number of Failed Downlink EGPRS TBF Establishments due to other cause(ass queue full) .Obsolete in V900R011.	B1275072524.C12 79176443	Sum	hucedvbh, huceuvbh, hucgdvbh, hucguvbh
DL_ESTB_FAIL_OTH_RASS_FAIL	ACCUMULATION	INTEGER	A9324: Number of Failed Downlink EGPRS TBF Establishments due to other cause(res ass fail) .Obsolete in V900R011.	B1275072524.C12 79176440	Sum	hucedvbh, huceuvbh, hucgdvbh, hucguvbh
DL_ESTB_FAIL_OTH_RES_FAIL	ACCUMULATION	INTEGER	A9328: Number of Failed Downlink EGPRS TBF Establishments due to other cause(res reass fail) .Obsolete in V900R011.	B1275072524.C12 79176444	Sum	hucedvbh, huceuvbh, hucgdvbh, hucguvbh
DL_ESTB_FAIL_OTH_T3191_TO	ACCUMULATION	INTEGER	A9325: Number of Failed Downlink	B1275072524.C12 79176441	Sum	hucedvbh, huceuvbh

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			EGPRS TBF Establishments due to other cause(T3191 timeout) .Obsolete in V900R011.			h, hucgdv h, hucguv h
DOWN_AVG_INTERCUR_EGPRS_TBF	INTENSITY	FLOAT	AA9312:Average Number of Concurrent Downlink EGPRS TBFs	B1275072524.C12 79176428	Average	Average, hucedv h, hucev h, hucgdv h, hucguv h, Maximum, Minimum, Sum
DOWN_EGPRS_TBF_AVG_TIME	INTENSITY	FLOAT	AA9314:Average Duration of Downlink EGPRS TBF (s)	B1275072524.C12 79176430	Average	Average, hucedv h, hucev h, hucgdv h, hucguv h, Maximum, Minimum, Sum
DOWN_EGPRS_TBF_ESTB_ATMP	ACCUMULATION	INT8	A9301:Number of Downlink EGPRS TBF Establishment Attempts	B1275072524.C12 79176417	Sum	hucedv h, hucev h, hucgdv h, hucguv h
DOWN_EGPRS_TBF_ESTB_	ACCUMULATION	INT8	A9302:Number of Successful	B1275072524.C12 79176418	Sum	hucedv h,

SUCC			Downlink EGPRS TBF Establishments			hucevvh, hucgdvvh, hucguvvh
DOWN_EGPRS_TBF_NORMAL_REL	ACCUMULATION	INT8	A9305: Number of Downlink EGPRS TBF Normal Releases	B1275072524.C12 79176421	Sum	hucedvvh, hucevvh, hucgdvvh, hucguvvh
DOWN_EGPRS_TBF_SAMPLE_TIMES	ACCUMULATION	INT8	A9311: Sampling Times of Concurrent Downlink EGPRS TBFs	B1275072524.C12 79176427	Sum	hucedvvh, hucevvh, hucgdvvh, hucguvvh
DOWN_EGPRS_TBF_TOTAL_TIME	ACCUMULATION	INT8	A9313: Total Duration of Downlink EGPRS TBF (ms)	B1275072524.C12 79176429	Sum	hucedvvh, hucevvh, hucgdvvh, hucguvvh
MAX_SMPL_DL_NUM	INTENSITY	INT8	A9332: Maximum Number of Sampled Concurrent Downlink EGPRS TBFs	B1275072524.C12 79176448	Average	hucedvvh, hucevvh, hucgdvvh, hucguvvh, Sum, Minimu

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						m, Maximum
TBF_ABNORMAL_REL_FLUSH	ACCUMULATION	INT8	A9308: Number of Downlink EGPRS TBF Abnormal Releases due to FLUSH	B1275072524.C12 79176424	Sum	hucedvbh, huceuvbh, hucgdvbh, hucguvbh
TBF_ABNORMAL_REL_N3105_OVERFLOW	ACCUMULATION	INT8	A9306: Number of Downlink EGPRS TBF Abnormal Releases due to N3105 Overflow	B1275072524.C12 79176422	Sum	hucedvbh, huceuvbh, hucgdvbh, hucguvbh
TBF_ABNORMAL_REL_NO_CHANNEL_RES	ACCUMULATION	INT8	A9309: Number of Downlink EGPRS TBF Abnormal Releases due to No Channel	B1275072524.C12 79176425	Sum	hucedvbh, huceuvbh, hucgdvbh, hucguvbh
TBF_ABNORMAL_REL_SUSPEND	ACCUMULATION	INT8	A9307: Number of Downlink EGPRS TBF Abnormal Releases due to SUSPEND	B1275072524.C12 79176423	Sum	hucedvbh, huceuvbh, hucgdvbh, hucguvbh
TBF_ESTB_FAIL_MS_NO_RESP	ACCUMULATION	INT8	A9304: Number of Failed Downlink EGPRS TBF Establishments due to MS No Response	B1275072524.C12 79176420	Sum	hucedvbh, huceuvbh, hucgdvbh, hucguvbh

TBF_ESTB_FAIL_NO_CHANNEL_RES	ACCUMULATION	INT8	A9303: Number of Failed Downlink EGPRS TBF Establishments due to No Channel	B1275072524.C1279176419	Sum	hucedvbh, huceuvbh, hucgdvbh, hucguvbh
TBF_TOTAL_SAMPLE_NUMBER	ACCUMULATION	INT8	A9310: Total Number of Sampled Concurrent Downlink EGPRS TBFs	B1275072524.C1279176426	Sum	hucedvbh, huceuvbh, hucgdvbh, hucguvbh

**7.9.124 Cell.Huawei.GSM.TCH\_call\_fail\_per\_cell\_ov**

Overview of call drop measurement based on the cause of drop

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
RAT_CALL_DROP_DL_FER	INTENSITY	FLOAT	Ratio of Call Drops on TCH(Downlink FER)	{Huawei.TCH_call_fail_per_cell.TCH_CALL_DROP_DL_FER}/ {Huawei.TCH_call_fail_per_cell.TOT_TCH_CALL_DROP}	Average	Sum, Minimum, Maximum
RAT_CALL_DROP_DL_QTY	INTENSITY	FLOAT	Ratio of Call Drops on TCH(Downlink Quality)	{Huawei.TCH_call_fail_per_cell.TCH_CALL_DROP_DL_QTY}/ {Huawei.TCH_call_fail_per_cell.TOT_TCH_CALL_DROP}	Average	Sum, Minimum, Maximum
RAT_CALL_D	INTENSITY	FLOAT	Ratio of Call	{Huawei.TCH_call_f	Average	Sum,

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ROP_DL_RX	TY	T	Drops on TCH(Downlink Received Level)	$\frac{\text{ail\_per\_cell.TCH\_CALL\_DROP\_DL\_RX\_LVL}}{\{\text{Huawei.TCH\_call\_fail\_per\_cell.TOT\_TCH\_CALL\_DROP}\}}$		Minimum, Maximum
RAT_CALL_DROP_OTH	INTENSITY	FLOAT	Ratio of Call Drops on TCH(Other)	$\frac{\{\text{Huawei.TCH\_call\_fail\_per\_cell.TCH\_CALL\_DROP\_OR}\}}{\{\text{Huawei.TCH\_call\_fail\_per\_cell.TOT\_TCH\_CALL\_DROP}\}}$	Average	Sum, Minimum, Maximum
RAT_CALL_DROP_TA	INTENSITY	FLOAT	Ratio of Call Drops on TCH(TA)	$\frac{\{\text{Huawei.TCH\_call\_fail\_per\_cell.TCH\_CALL\_DROP\_TA}\}}{\{\text{Huawei.TCH\_call\_fail\_per\_cell.TOT\_TCH\_CALL\_DROP}\}}$	Average	Sum, Minimum, Maximum
RAT_CALL_DROP_UL_DL_FER	INTENSITY	FLOAT	Ratio of Call Drops on TCH(Uplink and Downlink FER)	$\frac{\{\text{Huawei.TCH\_call\_fail\_per\_cell.TCH\_CALL\_DROP\_UL\_DL\_FER}\}}{\{\text{Huawei.TCH\_call\_fail\_per\_cell.TOT\_TCH\_CALL\_DROP}\}}$	Average	Sum, Minimum, Maximum
RAT_CALL_DROP_UL_DL_QLTY	INTENSITY	FLOAT	Ratio of Call Drops on TCH(Uplink and Downlink Quality)	$\frac{\{\text{Huawei.TCH\_call\_fail\_per\_cell.TCH\_CALL\_DROP\_UL\_DL\_QUALITY}\}}{\{\text{Huawei.TCH\_call\_fail\_per\_cell.TOT\_TCH\_CALL\_DROP}\}}$	Average	Sum, Minimum, Maximum
RAT_CALL_DROP_UL_DL_RX	INTENSITY	FLOAT	Ratio of Call Drops on TCH(Uplink and Downlink Received Level)	$\frac{\{\text{Huawei.TCH\_call\_fail\_per\_cell.TCH\_CALL\_DROP\_UL\_DL\_RX\_LVL}\}}{\{\text{Huawei.TCH\_call\_fail\_per\_cell.TOT\_TCH\_CALL\_DROP}\}}$	Average	Sum, Minimum, Maximum
RAT_CALL_DROP_UL_FER	INTENSITY	FLOAT	Ratio of Call Drops on TCH(Uplink	$\frac{\{\text{Huawei.TCH\_call\_fail\_per\_cell.TCH\_CALL\_DROP\_UL\_FER}\}}{\{\text{Huawei.TCH\_call\_fail\_per\_cell.TOT\_TCH\_CALL\_DROP}\}}$	Average	Sum, Minimum,

			FER)	{Huawei.TCH_call_fail_per_cell.TOT_TCH_CALL_DROP}		Maximum
RAT_CALL_DROP_UL_QLTY	INTENSITY	FLOAT	Ratio of Call Drops on TCH(Uplink Quality)	{Huawei.TCH_call_fail_per_cell.TCH_CALL_DROP_UL_QUALITY}/ {Huawei.TCH_call_fail_per_cell.TOT_TCH_CALL_DROP}	Average	Sum, Minimum, Maximum
RAT_CALL_DROP_UL_RX	INTENSITY	FLOAT	Ratio of Call Drops on TCH(Uplink Received Level)	{Huawei.TCH_call_fail_per_cell.TCH_CALL_DROP_UL_RX_LVL}/ {Huawei.TCH_call_fail_per_cell.TOT_TCH_CALL_DROP}	Average	Sum, Minimum, Maximum
RAT_CDROP_DL_FER_OLC	INTENSITY	FLOAT	Ratio of Call Drops on TCH(Downlink FER)(Overlaid Subcell)	{Huawei.TCH_call_fail_per_cell.TCH_CALL_DROP_DL_FER_OLSC}/ {Huawei.TCH_call_fail_per_cell.TOT_TCH_OLCELL_CALL_DROP}	Average	Sum, Minimum, Maximum
RAT_CDROP_DL_QLTY_OLC	INTENSITY	FLOAT	Ratio of Call Drops on TCH(Downlink Quality)(Overlaid Subcell)	{Huawei.TCH_call_fail_per_cell.TCH_CALL_DROP_DL_QUALITY_OLSC}/ {Huawei.TCH_call_fail_per_cell.TOT_TCH_OLCELL_CALL_DROP}	Average	Sum, Minimum, Maximum
RAT_CDROP_DL_RX_OLC	INTENSITY	FLOAT	Ratio of Call Drops on TCH(Downlink Received Level)	{Huawei.TCH_call_fail_per_cell.TCH_CALL_DROP_DL_RX_LVL_OLSC}/	Average	Sum, Minimum, Maximum

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			(Overlaid Subcell)	{Huawei.TCH_call_fail_per_cell.TOT_TCH_OLCELL_CALL_DROP}		m
RAT_CDROPTH_OLC	INTENSITY	FLOAT	Ratio of Call Drops on TCH(Other) (Overlaid Subcell)	{Huawei.TCH_call_fail_per_cell.TCH_CALL_DROP_OR_OLSC}/ {Huawei.TCH_call_fail_per_cell.TOT_TCH_OLCELL_CALL_DROP}	Average	Sum, Minimum, Maximum
RAT_CDROPTA_OLC	INTENSITY	FLOAT	Ratio of Call Drops on TCH(TA) (Overlaid Subcell)	{Huawei.TCH_call_fail_per_cell.TCH_CALL_DROP_TA_OLSC}/ {Huawei.TCH_call_fail_per_cell.TOT_TCH_OLCELL_CALL_DROP}	Average	Sum, Minimum, Maximum
RAT_CDROPTUL_DL_FER_OLC	INTENSITY	FLOAT	Ratio of Call Drops on TCH(Uplink and Downlink FER) (Overlaid Subcell)	{Huawei.TCH_call_fail_per_cell.TCH_CALL_DROP_UL_DL_FER_OLSC}/ {Huawei.TCH_call_fail_per_cell.TOT_TCH_OLCELL_CALL_DROP}	Average	Sum, Minimum, Maximum
RAT_CDROPTUL_DL_QTY_OLC	INTENSITY	FLOAT	Ratio of Call Drops on TCH(Uplink and Downlink Quality) (Overlaid Subcell)	{Huawei.TCH_call_fail_per_cell.TCH_CALL_DROP_UL_DL_QUALITY_OLSC}/ {Huawei.TCH_call_fail_per_cell.TOT_TCH_OLCELL_CALL_DROP}	Average	Sum, Minimum, Maximum
RAT_CDROPTUL_DL_RX_OLC	INTENSITY	FLOAT	Ratio of Call Drops on TCH(Uplink and Downlink Received Level) (Overlaid Subcell)	{Huawei.TCH_call_fail_per_cell.TCH_CALL_DROP_UL_DL_RX_LVL_OLSC}/ {Huawei.TCH_call_fail_per_cell.TOT_TCH_OLCELL_CALL_DROP}	Average	Sum, Minimum, Maximum

				DROP}		
RAT_CDROP_UL_FER_OLC	INTENSITY	FLOAT	Ratio of Call Drops on TCH(Uplink FER)(Overlaid Subcell)	{Huawei.TCH_call_fail_per_cell.TCH_CALL_DROP_UL_FER_OLSC}/ {Huawei.TCH_call_fail_per_cell.TOT_TCH_OLCELL_CALL_DROP}	Average	Sum, Minimum, Maximum
RAT_CDROP_UL_QLTY_OLC	INTENSITY	FLOAT	Ratio of Call Drops on TCH(Uplink Quality) (Overlaid Subcell)	{Huawei.TCH_call_fail_per_cell.TCH_CALL_DROP_UL_QUALITY_OLSC}/ {Huawei.TCH_call_fail_per_cell.TOT_TCH_OLCELL_CALL_DROP}	Average	Sum, Minimum, Maximum
RAT_CDROP_UL_RX_OLC	INTENSITY	FLOAT	Ratio of Call Drops on TCH(Uplink Received Level) (Overlaid Subcell)	{Huawei.TCH_call_fail_per_cell.TCH_CALL_DROP_UL_RX_LVL_OLSC}/ {Huawei.TCH_call_fail_per_cell.TOT_TCH_OLCELL_CALL_DROP}	Average	Sum, Minimum, Maximum

### 7.9.125Cell.Huawei.GSM.TCH\_call\_fail\_per\_cell

Statistics of call drop measurement based on the cause of drop and the cell type of overlay and underlay.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
FORCED_HO_CDROPS_AFT ER_MUTE_TCH	ACCUMULATION	INT8	M3128:Call Drops in Forced Handover After Mute (Traffic Channel)	B1290793506.C128 2411888	Sum	hucsvbh, huctvbh

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MUTE_TIMES _TRAF_CHNL	ACCUMULA TION	INT8	M3128A:Numb er of Mute Times (Traffic Channel)	B1290793506.C128 2411887	Sum	hucsvbh, huctvbh
PS_PREEMPT _CS_CALL_D ROP_TIMES	ACCUMULA TION	INT8	M3030M:CS call drop times caused by PS preempt	B1290793506.C128 2411685	Sum	hucsvbh, huctvbh
PS_PREEMPT _CS_HO_TIM ES	ACCUMULA TION	INT8	M3030L:CS handover times caused by PS preempt	B1290793506.C128 2411684	Sum	hucsvbh, huctvbh
TCH_CALL_D ROP_DL_FER _OLSC	ACCUMULA TION	INT8	M3031F:Call Drops on TCH(Downlink FER)(Overlaid Subcell)	B1290793506.C128 2411676	Sum	hucsvbh, huctvbh
TCH_CALL_D ROP_DL_FER	ACCUMULA TION	INT8	M3030F:Call Drops on TCH(Downlink FER)	B1290793506.C128 2411665	Sum	hucsvbh, huctvbh
TCH_CALL_D ROP_DL_QUA LITY_OLSC	ACCUMULA TION	INT8	M3031I:Call Drops on TCH(Downlink Quality) (Overlaid Subcell)	B1290793506.C128 2411679	Sum	hucsvbh, huctvbh
TCH_CALL_D ROP_DL_QUA LITY	ACCUMULA TION	INT8	M3030I:Call Drops on TCH(Downlink Quality)	B1290793506.C128 2411668	Sum	hucsvbh, huctvbh
TCH_CALL_D ROP_DL_RX_ LVL_OLSC	ACCUMULA TION	INT8	M3031C:Call Drops on TCH(Downlink Received Level)(Overlaid Subcell)	B1290793506.C128 2411673	Sum	hucsvbh, huctvbh
TCH_CALL_D ROP_DL_RX_ LVL	ACCUMULA TION	INT8	M3030C:Call Drops on TCH(Downlink Received	B1290793506.C128 2411662	Sum	hucsvbh, huctvbh

			Level)			
TCH_CALL_D ROP_OR_OLS C	ACCUMULA TION	INT8	M3031K:Call Drops on TCH(Other) (Overlaid Subcell)	B1290793506.C128 2411681	Sum	hucsvbh, huctvbh
TCH_CALL_D ROP_OR	ACCUMULA TION	INT8	M3030K:Call Drops on TCH(Other)	B1290793506.C128 2411670	Sum	hucsvbh, huctvbh
TCH_CALL_D ROP_TA_OLS C	ACCUMULA TION	INT8	M3031A:Call Drops on TCH(TA) (Overlaid Subcell)	B1290793506.C128 2411671	Sum	hucsvbh, huctvbh
TCH_CALL_D ROP_TA	ACCUMULA TION	INT8	M3030A:Call Drops on TCH(TA)	B1290793506.C128 2411660	Sum	hucsvbh, huctvbh
TCH_CALL_D ROP_UL_DL_ FER_OLSC	ACCUMULA TION	INT8	M3031G:Call Drops on TCH(Uplink and Downlink FER)(Overlaid Subcell)	B1290793506.C128 2411677	Sum	hucsvbh, huctvbh
TCH_CALL_D ROP_UL_DL_ FER	ACCUMULA TION	INT8	M3030G:Call Drops on TCH(Uplink and Downlink FER)	B1290793506.C128 2411666	Sum	hucsvbh, huctvbh
TCH_CALL_D ROP_UL_DL_ QUALITY_OL SC	ACCUMULA TION	INT8	M3031J:Call Drops on TCH(Uplink and Downlink Quality) (Overlaid Subcell)	B1290793506.C128 2411680	Sum	hucsvbh, huctvbh
TCH_CALL_D	ACCUMULA	INT8	M3030J:Call	B1290793506.C128	Sum	hucsvbh,

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ROP_UL_DL_QUALITY	TION		Drops on TCH(Uplink and Downlink Quality)	2411669		huctvbh
TCH_CALL_D ROP_UL_DL_RX_LVL_OLSC	ACCUMULATION	INT8	M3031D:Call Drops on TCH(Uplink and Downlink Received Level)(Overlaid Subcell)	B1290793506.C128 2411674	Sum	hucsvbh, huctvbh
TCH_CALL_D ROP_UL_DL_RX_LVL	ACCUMULATION	INT8	M3030D:Call Drops on TCH(Uplink and Downlink Received Level)	B1290793506.C128 2411663	Sum	hucsvbh, huctvbh
TCH_CALL_D ROP_UL_FER_OLSC	ACCUMULATION	INT8	M3031E:Call Drops on TCH(Uplink FER)(Overlaid Subcell)	B1290793506.C128 2411675	Sum	hucsvbh, huctvbh
TCH_CALL_D ROP_UL_FER	ACCUMULATION	INT8	M3030E:Call Drops on TCH(Uplink FER)	B1290793506.C128 2411664	Sum	hucsvbh, huctvbh
TCH_CALL_D ROP_UL_QUALITY_OLSC	ACCUMULATION	INT8	M3031H:Call Drops on TCH(Uplink Quality) (Overlaid Subcell)	B1290793506.C128 2411678	Sum	hucsvbh, huctvbh
TCH_CALL_D ROP_UL_QUALITY	ACCUMULATION	INT8	M3030H:Call Drops on TCH(Uplink Quality)	B1290793506.C128 2411667	Sum	hucsvbh, huctvbh
TCH_CALL_D ROP_UL_RX_LVL_OLSC	ACCUMULATION	INT8	M3031B:Call Drops on TCH(Uplink Received Level)(Overlaid	B1290793506.C128 2411672	Sum	hucsvbh, huctvbh

			Subcell)			
TCH_CALL_DROP_UL_RX_LVL	ACCUMULATION	INT8	M3030B:Call Drops on TCH(Uplink Received Level)	B1290793506.C1282411661	Sum	hucsvbh, huctvbh
TOT_TCH_CALL_DROP	ACCUMULATION	INT8	Total Call Drops on TCH	B1290793506.C1282411660 + C1282411661 + C1282411662 + C1282411663 + C1282411664 + C1282411665 + C1282411666 + C1282411667 + C1282411668 + C1282411669 + C1282411670	Sum	hucsvbh, huctvbh
TOT_TCH_OVERLAIDED_CELL_CALL_DROP	ACCUMULATION	INT8	Total Call Drops on TCH(Overlaid Subcell)	B1290793506.C1282411671 + C1282411672 + C1282411673 + C1282411674 + C1282411675 + C1282411676 + C1282411677 + C1282411678 + C1282411679 + C1282411680 + C1282411681	Sum	hucsvbh, huctvbh

**7.9.126Cell.Huawei.GSM.TRAU\_link\_utilisation**

TRAU link utilisation

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
BTS_RX_CHK	ACCUMULATION	INT8	L9A06:Number	B1275073017.C12	Sum	hucsvbh,

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_ERR_TRAU_FRAME	TION		of Check Error TRAU Frames Received by BTS .Obsolete in V900R011.	79669422		huctvbh
GABIS_TRAU_RX_CHECK_ERR_FR	ACCUMULATION	INT8	L9A03: Number of Received Check Error TRAU Frames	B1275073017.C12 79669419	Sum	hucsvbh, huctvbh
GABIS_TRAU_RX_NORMAL_FR	ACCUMULATION	INT8	L9A01: Number of Received Normal TRAU Frames	B1275073017.C12 79669417	Sum	hucsvbh, huctvbh
GABIS_TRAU_RX_OUT_OF_SYN_FR	ACCUMULATION	INT8	L9A02: Number of Received Out-of-Synchronization TRAU Frames	B1275073017.C12 79669418	Sum	hucsvbh, huctvbh
GABIS_TRAU_TX_NUL_FR	ACCUMULATION	INT8	L9A05: Number of Sent Empty TRAU Frames	B1275073017.C12 79669421	Sum	hucsvbh, huctvbh
GABIS_TRAU_TX_VALID_FR	ACCUMULATION	INT8	L9A04: Number of Sent Valid TRAU Frames	B1275073017.C12 79669420	Sum	hucsvbh, huctvbh
RATE_TX_ERROR_FRAME	INTENSITY	FLOAT	RL9A08: Rate of Transmitted Error Frames	B1275073017.C12 79669424	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
RX_INFO_TRAU_FRAME	ACCUMULATION	INT8	L9A07: Number of Received Information TRAU Frames	B1275073017.C12 79669423	Sum	hucsvbh, huctvbh

### 7.9.127 Cell.Huawei.GSM.TRX\_configuration

TRX configuration

KPI	Type	Data	Description	Derivation	Default	Other
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		Type			Aggregator	Aggregators
TRX_CFG_AVAILABLE_NUM	INTENSITY	INT8	S3656:Available TRXs in cell	B1275071441.C1278093418	Average	Average, Maximum, Minimum, Sum
TRX_CFG_NUM	INTENSITY	INT8	S3655:Activated TRXs in cell	B1275071441.C1278093417	Average	Average, Maximum, Minimum, Sum

### 7.9.128Cell.Huawei.GSM.UL\_EGPRS\_RLC\_data\_transfer\_cap

Uplink EGPRS Release Complete data transfer capability

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
DUR_UL_EGPRS_TBF	ACCUMULATION	INT8	L9235:Total Duration of Uplink EGPRS TBFs (s)	B1275072527.C1279179451	Sum	hucevbh
MCS1_RLC_DATA_BLK_RESEND_RATE	INTENSITY	FLOAT	RL9220:Retransmission Rate of Uplink EGPRS MCS1 RLC Data Block (%)	B1275072527.C1279179436	Average	Average, hucevbh, Maximum, Minimum, Sum
MCS1_RLC_DATA_BLK_VALID_TOTAL	ACCUMULATION	INT8	L9211:Total Number of Valid Uplink EGPRS MCS1 RLC Data Blocks	B1275072527.C1279179427	Sum	hucevbh

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MCS2_RLC_DATA_BLK_RES_END_RATE	INTENSITY	FLOAT	RL9221:Retransmission Rate of Uplink EGPRS MCS2 RLC Data Block (%)	B1275072527.C1279179437	Average	Average, hucevbh, Maximum, Minimum, Sum
MCS2_RLC_DATA_BLK_VALID_TOTAL	ACCUMULATION	INT8	L9212:Total Number of Valid Uplink EGPRS MCS2 RLC Data Blocks	B1275072527.C1279179428	Sum	hucevbh
MCS3_RLC_DATA_BLK_RES_END_RATE	INTENSITY	FLOAT	RL9222:Retransmission Rate of Uplink EGPRS MCS3 RLC Data Block (%)	B1275072527.C1279179438	Average	Average, hucevbh, Maximum, Minimum, Sum
MCS3_RLC_DATA_BLK_VALID_TOTAL	ACCUMULATION	INT8	L9213:Total Number of Valid Uplink EGPRS MCS3 RLC Data Blocks	B1275072527.C1279179429	Sum	hucevbh
MCS4_RLC_DATA_BLK_RES_END_RATE	INTENSITY	FLOAT	RL9223:Retransmission Rate of Uplink EGPRS MCS4 RLC Data Block (%)	B1275072527.C1279179439	Average	Average, hucevbh, Maximum, Minimum, Sum
MCS4_RLC_DATA_BLK_VALID_TOTAL	ACCUMULATION	INT8	L9214:Total Number of Valid Uplink EGPRS MCS4 RLC Data Blocks	B1275072527.C1279179430	Sum	hucevbh
MCS5_RLC_DATA_BLK_RES_END_RATE	INTENSITY	FLOAT	RL9224:Retransmission Rate of Uplink	B1275072527.C1279179440	Average	Average, hucevbh,

			EGPRS MCS5 RLC Data Block (%)			Maximum, Minimum, Sum
MCS5_RLC_DATA_BLK_VALID_TOTAL	ACCUMULATION	INT8	L9215:Total Number of Valid Uplink EGPRS MCS5 RLC Data Blocks	B1275072527.C12 79179431	Sum	hucevbh
MCS6_RLC_DATA_BLK_RESEND_RATE	INTENSITY	FLOAT	RL9225:Retran smission Rate of Uplink EGPRS MCS6 RLC Data Block (%)	B1275072527.C12 79179441	Average	Average, hucevbh, Maximum, Minimum, Sum
MCS6_RLC_DATA_BLK_VALID_TOTAL	ACCUMULATION	INT8	L9216:Total Number of Valid Uplink EGPRS MCS6 RLC Data Blocks	B1275072527.C12 79179432	Sum	hucevbh
MCS7_RLC_DATA_BLK_RESEND_RATE	INTENSITY	FLOAT	RL9226:Retran smission Rate of Uplink EGPRS MCS7 RLC Data Block (%)	B1275072527.C12 79179442	Average	Average, hucevbh, Maximum, Minimum, Sum
MCS7_RLC_DATA_BLK_VALID_TOTAL	ACCUMULATION	INT8	L9217:Total Number of Valid Uplink EGPRS MCS7 RLC Data Blocks	B1275072527.C12 79179433	Sum	hucevbh
MCS8_RLC_DATA_BLK_RESEND_RATE	INTENSITY	FLOAT	RL9227:Retran smission Rate	B1275072527.C12 79179443	Average	Average, hucevbh

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END_RATE			of Uplink EGPRS MCS8 RLC Data Block (%)			h, Maximum, Minimum, Sum
MCS8_RLC_DATA_BLOCK_VALID_TOTAL	ACCUMULATION	INT8	L9218:Total Number of Valid Uplink EGPRS MCS8 RLC Data Blocks	B1275072527.C1279179434	Sum	hucevbh
MCS9_RLC_DATA_BLOCK_RESEND_RATE	INTENSITY	FLOAT	RL9228:Retransmission Rate of Uplink EGPRS MCS9 RLC Data Block (%)	B1275072527.C1279179444	Average	Average, hucevbh, Maximum, Minimum, Sum
MCS9_RLC_DATA_BLOCK_VALID_TOTAL	ACCUMULATION	INT8	L9219:Total Number of Valid Uplink EGPRS MCS9 RLC Data Blocks	B1275072527.C1279179435	Sum	hucevbh
RETX_RATE_RLC_DATA_BLOCK	INTENSITY	FLOAT	RL9236:Retransmission Rate of Uplink EGPRS RLC Data Blocks	B1275072527.C1279179452	Average	hucevbh, Sum, Minimum, Maximum
RETX_RATE_UAS10_RLC_DATA_BLOCK	INTENSITY	FLOAT	RL9378:Retransmission Rate of Uplink EGPRS UAS10 RLC Data Block	B1275072527.C1282423951	Average	hucevbh, Sum, Minimum, Maximum
RETX_RATE_UAS11_RLC_DATA_BLOCK	INTENSITY	FLOAT	RL9379:Retransmission Rate of Uplink EGPRS UAS11 RLC Data Block	B1275072527.C1282423952	Average	hucevbh, Sum, Minimum, Maximum

RETX_RATE_UAS7_RLC_DATA_BLK	INTENSITY	FLOAT	RL9375:Retransmission Rate of Uplink EGPRS UAS7 RLC Data Block	B1275072527.C1282423948	Average	hucevbh, Sum, Minimum, Maximum
RETX_RATE_UAS8_RLC_DATA_BLK	INTENSITY	FLOAT	RL9376:Retransmission Rate of Uplink EGPRS UAS8 RLC Data Block	B1275072527.C1282423949	Average	hucevbh, Sum, Minimum, Maximum
RETX_RATE_UAS9_RLC_DATA_BLK	INTENSITY	FLOAT	RL9377:Retransmission Rate of Uplink EGPRS UAS9 RLC Data Block	B1275072527.C1282423950	Average	hucevbh, Sum, Minimum, Maximum
RLC_SGL_TBF_AVG_THRPUT	INTENSITY	FLOAT	TL9233:Average Payload of Single Uplink EGPRS TBF (KB)	B1275072527.C1279179449	Average	Average, hucevbh, Maximum, Minimum, Sum
THROUGHPUT_RLC_DATA_BLOCK	INTENSITY	FLOAT	TL9237:Throughput of Uplink EGPRS RLC Data Blocks	B1275072527.C1279179453	Average	hucevbh, Sum, Minimum, Maximum
TOT_UL_EGPRS_UAS_RLC	ACCUMULATION	INT8	Total Number of Uplink EGPRS UAS RLC Data Blocks	B1275072527.C1282411751 + C1282411752 + C1282411753 + C1282411754 + C1282411755	Sum	hucevbh
TOT_V_UL_EG	ACCUMULATION	INT8	Total Number	B1275072527.C12	Sum	hucevbh

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PRS_MCS_RLC	TION		of Valid Uplink EGPRS MCS RLC Data Blocks	79179427 + C1279179428 + C1279179429 + C1279179430 + C1279179431 + C1279179432 + C1279179433 + C1279179434 + C1279179435		h
TOT_V_UL_EGPRS_UAS_RLC	ACCUMULATION	INT8	Total Number of Valid Uplink EGPRS UAS RLC Data Blocks	B1275072527.C1282411756 + C1282411757 + C1282411758 + C1282411759 + C1282411760	Sum	hucevbh
UAS10_RLC_DATA_BLK	ACCUMULATION	INT8	L9368:Total Number of Uplink EGPRS UAS10 RLC Data Blocks	B1275072527.C1282411754	Sum	hucevbh
UAS11_RLC_DATA_BLK	ACCUMULATION	INT8	L9369:Total Number of Uplink EGPRS UAS11 RLC Data Blocks	B1275072527.C1282411755	Sum	hucevbh
UAS7_RLC_DATA_BLK	ACCUMULATION	INT8	L9365:Total Number of Uplink EGPRS UAS7 RLC Data Blocks	B1275072527.C1282411751	Sum	hucevbh
UAS8_RLC_DATA_BLK	ACCUMULATION	INT8	L9366:Total Number of Uplink EGPRS UAS8 RLC Data Blocks	B1275072527.C1282411752	Sum	hucevbh
UAS9_RLC_DATA_BLK	ACCUMULATION	INT8	L9367:Total Number of Uplink EGPRS UAS9 RLC Data Blocks	B1275072527.C1282411753	Sum	hucevbh
UP_EGPRS_MC	ACCUMULATION	INT8	L9202:Total	B1275072527.C12	Sum	hucevb

S1_RLC_DATA_BLK	TION		Number of Uplink EGPRS MCS1 RLC Data Blocks	79179418		h
UP_EGPRS_MCS2_RLC_DATA_BLK	ACCUMULATION	INT8	L9203:Total Number of Uplink EGPRS MCS2 RLC Data Blocks	B1275072527.C12 79179419	Sum	hucevvh
UP_EGPRS_MCS3_RLC_DATA_BLK	ACCUMULATION	INT8	L9204:Total Number of Uplink EGPRS MCS3 RLC Data Blocks	B1275072527.C12 79179420	Sum	hucevvh
UP_EGPRS_MCS4_RLC_DATA_BLK	ACCUMULATION	INT8	L9205:Total Number of Uplink EGPRS MCS4 RLC Data Blocks	B1275072527.C12 79179421	Sum	hucevvh
UP_EGPRS_MCS5_RLC_DATA_BLK	ACCUMULATION	INT8	L9206:Total Number of Uplink EGPRS MCS5 RLC Data Blocks	B1275072527.C12 79179422	Sum	hucevvh
UP_EGPRS_MCS6_RLC_DATA_BLK	ACCUMULATION	INT8	L9207:Total Number of Uplink EGPRS MCS6 RLC Data Blocks	B1275072527.C12 79179423	Sum	hucevvh
UP_EGPRS_MCS7_RLC_DATA_BLK	ACCUMULATION	INT8	L9208:Total Number of Uplink EGPRS MCS7 RLC Data Blocks	B1275072527.C12 79179424	Sum	hucevvh
UP_EGPRS_MCS8_RLC_DATA_BLK	ACCUMULATION	INT8	L9209:Total Number of Uplink EGPRS	B1275072527.C12 79179425	Sum	hucevvh

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			MCS8 RLC Data Blocks			
UP_EGPRS_MCS9_RLC_DATA_BLK	ACCUMULATION	INT8	L9210:Total Number of Uplink EGPRS MCS9 RLC Data Blocks	B1275072527.C1279179426	Sum	hucevbh
UP_EGPRS_RLC_AVG_THRPUT_RATE	INTENSITY	FLOAT	TL9232:Average Throughput of Uplink EGPRS RLC (kbit/s)	B1275072527.C1279179448	Average	Average, hucevbh, Maximum, Minimum, Sum
UP_EGPRS_RLC_DATA_BLOCK_TOTAL	ACCUMULATION	INT8	L9201:Total Number of Uplink EGPRS RLC Data Blocks	B1275072527.C1279179417	Sum	
UP_EGPRS_RLC_SIG_BLK_NUM	ACCUMULATION	INT8	L9231:Number of Uplink EGPRS RLC Control Blocks	B1275072527.C1279179447	Sum	hucevbh
UP_EGPRS_TBF_MCS_DEGRADE_NUM	ACCUMULATION	INT8	L9230:Number of MCS Degrades on Uplink EGPRS TBF	B1275072527.C1279179446	Sum	hucevbh
UP_EGPRS_TBF_MCS_UPGRADE_NUM	ACCUMULATION	INT8	L9229:Number of MCS Upgrades on Uplink EGPRS TBF	B1275072527.C1279179445	Sum	hucevbh
UP_EGPRS_TOTAL_TBF	ACCUMULATION	INT8	L9234:Total Number of Uplink EGPRS TBFs	B1275072527.C1279179450	Sum	hucevbh
VALID_UAS10_RLC_DATA_BLOCK	ACCUMULATION	INT8	L9373:Total Number of Valid Uplink EGPRS UAS10 RLC	B1275072527.C1282411759	Sum	hucevbh

			Data Blocks			
VALID_UAS11_RLC_DATA_BLOCK	ACCUMULATION	INT8	L9374:Total Number of Val Uplink EGPRS UAS11 RLC Data Blocks	B1275072527.C12 82411760	Sum	hucevbh
VALID_UAS7_RLC_DATA_BLOCK	ACCUMULATION	INT8	L9370:Total Number of Val Uplink EGPRS UAS7 RLC Data Blocks	B1275072527.C12 82411756	Sum	hucevbh
VALID_UAS8_RLC_DATA_BLOCK	ACCUMULATION	INT8	L9371:Total Number of Val Uplink EGPRS UAS8 RLC Data Blocks	B1275072527.C12 82411757	Sum	hucevbh
VALID_UAS9_RLC_DATA_BLOCK	ACCUMULATION	INT8	L9372:Total Number of Val Uplink EGPRS UAS9 RLC Data Blocks	B1275072527.C12 82411758	Sum	hucevbh

### 7.9.129Cell.Huawei.GSM.UL\_EGPRS\_TBF\_estab\_and\_RLS\_cap

Uplink EGPRS TBF establishment and release capability

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ABNRM_REL_ABIS_RES_PREEMPT	ACCUMULATION	INT8	A9238:Number of Abnormal Uplink EGPRS TBF Releases due to Abis Resource Preemption	B1275072523.C12 82411782	Sum	hucevbh
ABNRM_REL	ACCUMULATION	INT8	A9237:Number	B1275072523.C12	Sum	hucevbh

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_CS_HO	TION		of Abnormal Uplink EGPRS TBF Releases due to CS Handover	79175453		h
ABNRM_REL_OTHER_FLOW_CTRL	ACCUMULATION	INTEGER	A9231: Number of Uplink EGPRS TBF Abnormal Releases due to other cause(flow ctrl) .Obsolete in V900R011.	B1275072523.C1279175447	Sum	huceuvbh
ABNRM_REL_OTHER_GRRM_TBF_REL	ACCUMULATION	INTEGER	A9233: Number of Uplink EGPRS TBF Abnormal Releases due to other cause(grrm tbf rel) .Obsolete in V900R011.	B1275072523.C1279175449	Sum	huceuvbh
ABNRM_REL_OTHER_INTRA_REL	ACCUMULATION	INTEGER	A9232: Number of Uplink EGPRS TBF Abnormal Releases due to other cause(intra rel) .Obsolete in V900R011.	B1275072523.C1279175448	Sum	huceuvbh
ESTB_FAIL_MS_NO_RESP_FLUSH	ACCUMULATION	INTEGER	A9225: Number of Failed Uplink EGPRS TBF Establishments due to MS No Response(FLUSH) .Obsolete in V900R011.	B1275072523.C1279175441	Sum	huceuvbh
ESTB_FAIL_MS_NO_RESP_INCONS	ACCUMULATION	INTEGER	A9220: Number of Failed Uplink EGPRS TBF	B1275072523.C1279175436	Sum	huceuvbh

			Establishments due to MS No Response(state inconsistent) .Obsolete in V900R011.			
ESTB_FAIL_MS_NO_RESP_MSG_ERR	ACCUMULATION	INTEGER	A9221: Number of Failed Uplink EGPRS TBF Establishments due to MS No Response(msg err) .Obsolete in V900R011.	B1275072523.C1279175437	Sum	hucevvh
ESTB_FAIL_MS_NO_RESP_N3101_OVF	ACCUMULATION	INTEGER	A9219: Number of Failed Uplink EGPRS TBF Establishments due to MS No Response(N3101 overflow) .Obsolete in V900R011.	B1275072523.C1279175435	Sum	hucevvh
ESTB_FAIL_MS_NO_RESP_OTHER	ACCUMULATION	INTEGER	A9227: Number of Failed Uplink EGPRS TBF Establishments due to MS No Response(other cause) .Obsolete in V900R011.	B1275072523.C1279175443	Sum	hucevvh
ESTB_FAIL_MS_NO_RESP_Q_FULL	ACCUMULATION	INTEGER	A9222: Number of Failed Uplink EGPRS TBF Establishments due to MS No Response(queue full) .Obsolete in	B1275072523.C1279175438	Sum	hucevvh

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			V900R011.			
ESTB_FAIL_MS_NO_RESP_RASS_FAIL	ACCUMULATION	INTEGER	A9223: Number of Failed Uplink EGPRS TBF Establishments due to MS No Response(res ass fail) .Obsolete in V900R011.	B1275072523.C12 79175439	Sum	huceuvbh
ESTB_FAIL_MS_NO_RESP_SUSPEND	ACCUMULATION	INTEGER	A9224: Number of Failed Uplink EGPRS TBF Establishments due to MS No Response(gprs suspended) .Obsolete in V900R011.	B1275072523.C12 79175440	Sum	huceuvbh
ESTB_FAIL_MS_NO_RESP_UM_AB	ACCUMULATION	INTEGER	A9226: Number of Failed Uplink EGPRS TBF Establishments due to MS No Response(UM abnormal) .Obsolete in V900R011.	B1275072523.C12 79175442	Sum	huceuvbh
ESTB_FAIL_OTHER_FLOW_CTRL	ACCUMULATION	INTEGER	A9229: Number of Failed Uplink EGPRS TBF Establishments due to other cause(flow ctrl) .Obsolete in V900R011.	B1275072523.C12 79175445	Sum	huceuvbh
ESTB_FAIL_OTHER_INTRA_REL	ACCUMULATION	INTEGER	A9230: Number of Failed Uplink EGPRS TBF Establishments due to other cause(intra rel) .Obsolete in	B1275072523.C12 79175446	Sum	huceuvbh

			V900R011.			
ESTB_FAIL_OTHER_MS_RESP_RASG	ACCUMULATION	INTEGER	A9236: Number of Failed Uplink EGPRS TBF Establishments due to Other Causes (MS Responding with Resource Assignment Failure) .Obsolete in V900R011.	B1275072523.C1279175452	Sum	hucevbh
ESTB_FAIL_OTHER_MS_SEND_RASG	ACCUMULATION	INTEGER	A9235: Number of Failed Uplink EGPRS TBF Establishments due to Other Causes (MSIP Sending Resource Assignment Fails) .Obsolete in V900R011.	B1275072523.C1279175451	Sum	hucevbh
ESTB_FAIL_OTHER_RES_REQ	ACCUMULATION	INTEGER	A9228: Number of Failed Uplink EGPRS TBF Establishments due to other cause(res req) .Obsolete in V900R011.	B1275072523.C1279175444	Sum	hucevbh
MAX_SAMPLE_NUM	INTENSITY	INT8	A9234: Maximum Number of Sampled Concurrent Uplink EGPRS TBFs	B1275072523.C1279175450	Average	hucevbh, Sum, Minimum, Maximum

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TBF_ABNORM_REL_N3101_OVERFLOW	ACCUMULATION	INT8	A9206: Number of Uplink EGPRS TBF Abnormal Releases due to N3101 Overflow (MS No Response)	B1275072523.C1279175422	Sum	huceuvbh
TBF_ABNORM_REL_N3103_OVERFLOW	ACCUMULATION	INT8	A9207: Number of Uplink EGPRS TBF Abnormal Releases due to N3103 Overflow (MS No Response)	B1275072523.C1279175423	Sum	huceuvbh
TBF_ABNORM_REL_NO_CHANNEL_RES	ACCUMULATION	INT8	A9210: Number of Uplink EGPRS TBF Abnormal Releases due to No Channel	B1275072523.C1279175426	Sum	huceuvbh
TBF_ABNORM_REL_SUSPEND	ACCUMULATION	INT8	A9208: Number of Uplink EGPRS TBF Abnormal Releases due to SUSPEND	B1275072523.C1279175424	Sum	huceuvbh
TBF_ESTB_FAIL_MS_NO_RESP	ACCUMULATION	INT8	A9204: Number of Failed Uplink EGPRS TBF Establishments due to MS No Response	B1275072523.C1279175420	Sum	huceuvbh
TBF_ESTB_FAIL_NO_CHANNEL_RES	ACCUMULATION	INT8	A9203: Number of Failed Uplink EGPRS TBF Establishments due to No Channel	B1275072523.C1279175419	Sum	huceuvbh
UP_EGPRS_TBF_ABNORM	ACCUMULATION	INT8	A9209: Number of Uplink	B1275072523.C1279175425	Sum	huceuvbh

_REL_FLUSH			EGPRS TBF Abnormal Releases due to FLUSH			
UP_EGPRS_TBF_ABNRM_REL_OTHCAUS	ACCUMULATION	INT8	A9218: Number of Uplink EGPRS TBF Abnormal Releases due to other cause	B1275072523.C1279175434	Sum	hucevbh
UP_EGPRS_TBF_ABNRM_REL_PREEMPT	ACCUMULATION	INT8	A9217: Number of Uplink EGPRS TBF Abnormal Releases due to channel preempt	B1275072523.C1279175433	Sum	hucevbh
UP_EGPRS_TBF_AVG_NUM	INTENSITY	FLOAT	AA9213: Average Number of Concurrent Uplink EGPRS TBFs	B1275072523.C1279175429	Average	Average, hucevbh, Maximum, Minimum, Sum
UP_EGPRS_TBF_AVG_TIME	INTENSITY	FLOAT	AA9215: Average Duration of Uplink EGPRS TBF (s)	B1275072523.C1279175431	Average	Average, hucevbh, Maximum, Minimum, Sum
UP_EGPRS_TBF_ESTB_AMP	ACCUMULATION	INT8	A9201: Number of Uplink EGPRS TBF Establishment Attempts	B1275072523.C1279175417	Sum	hucevbh
UP_EGPRS_TBF_ESTB_FAIL_OTHCAUS	ACCUMULATION	INT8	A9216: Number of Failed Uplink EGPRS TBF	B1275072523.C1279175432	Sum	hucevbh

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			Establishments due to other cause			
UP_EGPRS_TBF_ESTB_SUCC	ACCUMULATION	INT8	A9202: Number of Successful Uplink EGPRS TBF Establishments	B1275072523.C1279175418	Sum	hucevvh
UP_EGPRS_TBF_NORM_RELEASE	ACCUMULATION	INT8	A9205: Number of Uplink EGPRS TBF Normal Releases	B1275072523.C1279175421	Sum	hucevvh
UP_EGPRS_TBF_SAMPLE_TIMES	ACCUMULATION	INT8	A9212: Sampling Times of Concurrent Uplink EGPRS TBFs	B1275072523.C1279175428	Sum	hucevvh
UP_EGPRS_TBF_TOTAL_SAMPLE_NUM	ACCUMULATION	INT8	A9211: Total Number of Sampled Concurrent Uplink EGPRS TBFs	B1275072523.C1279175427	Sum	hucevvh
UP_EGPRS_TBF_TOTAL_TIME	ACCUMULATION	INT8	A9214: Total Duration of Uplink EGPRS TBF (ms)	B1275072523.C1279175430	Sum	hucevvh

### 7.9.130 Cell.Huawei.GSM.UL\_GPRS\_RLC\_data\_transfer\_cap

Uplink GPRS Release Complete data transfer capability

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
DUR_OF_UL_GPRS_TBF	ACCUMULATION	INT8	L9020: Total Duration of Uplink GPRS TBFs (s)	B1275072525.C1279177436	Sum	hucevvh, hucgvvh
RETRANS_RA	INTENSITY	FLOA	RL9022: Retran	B1275072525.C12	Average	hucevvh

TE_RLC_DATA_BLK		T	Transmission Rate of Uplink GPRS RLC Data Blocks	79177438		h, hucguvbh, Sum, Minimum, Maximum
RLC_DUMMY_BLK	ACCUMULATION	INT8	L9021: Number of Uplink GPRS RLC Dummy Blocks	B1275072525.C1279177437	Sum	hucevbh, hucguvbh
THROUGHPUT_RLC_DATA_BLK	INTENSITY	FLOAT	TL9023: Throughput of Uplink GPRS RLC Data Blocks	B1275072525.C1279177439	Average	hucevbh, hucguvbh, Sum, Minimum, Maximum
TOT_V_UL_CS_RLC	ACCUMULATION	INT8	Total Number of Valid Uplink RLC Data Blocks Using CS	B1275072525.C1279177422 + C1279177423 + C1279177424 + C1279177425	Sum	hucevbh, hucguvbh
UP_CS1_RLC_BLK_RESEND_RATE	INTENSITY	FLOAT	RL9010: Retransmission Rate of RLC Uplink Data Blocks Using CS1 (%)	B1275072525.C1279177426	Average	Average, hucevbh, hucguvbh, Maximum, Minimum, Sum
UP_CS1_RLC_BLK_VALID_TOTAL	ACCUMULATION	INT8	L9006: Number of Valid Uplink RLC Data Blocks Using CS1	B1275072525.C1279177422	Sum	hucevbh, hucguvbh

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UP_CS1_RLC_BLK	ACCUMULATION	INT8	L9002:Total Number of Uplink RLC Data Blocks Using CS1	B1275072525.C12 79177418	Sum	hucevbh, hucguvbh
UP_CS2_RLC_BLK_RESEND_RATE	INTENSITY	FLOAT	RL9011:Retran smission Rate of RLC Uplink Data Blocks Using CS2 (%)	B1275072525.C12 79177427	Average	Average, hucevbh, hucguvbh, Maximum, Minimum, Sum
UP_CS2_RLC_BLK_VALID_TOTAL	ACCUMULATION	INT8	L9007:Number of Valid Uplink RLC Data Blocks Using CS2	B1275072525.C12 79177423	Sum	hucevbh, hucguvbh
UP_CS2_RLC_BLK	ACCUMULATION	INT8	L9003:Total Number of Uplink RLC Data Blocks Using CS2	B1275072525.C12 79177419	Sum	hucevbh, hucguvbh
UP_CS3_RLC_BLK_RESEND_RATE	INTENSITY	FLOAT	RL9012:Retran smission Rate of RLC Uplink Data Blocks Using CS3 (%)	B1275072525.C12 79177428	Average	Average, hucevbh, hucguvbh, Maximum, Minimum, Sum
UP_CS3_RLC_BLK_VALID_TOTAL	ACCUMULATION	INT8	L9008:Number of Valid Uplink RLC Data Blocks Using CS3	B1275072525.C12 79177424	Sum	hucevbh, hucguvbh
UP_CS3_RLC_BLK	ACCUMULATION	INT8	L9004:Total Number of Uplink RLC Data Blocks	B1275072525.C12 79177420	Sum	hucevbh, hucguvbh

			Using CS3			
UP_CS4_RLC_BLK_RESEND_RATE	INTENSITY	FLOAT	RL9013:Retran smission Rate of RLC Uplink Data Blocks Using CS4 (%)	B1275072525.C1279177429	Average	Average, huceuvbh, hucguvbh, Maximum, Minimum, Sum
UP_CS4_RLC_BLK_VALID_TOTAL	ACCUMULATION	INT8	L9009:Number of Valid Uplink RLC Data Blocks Using CS4	B1275072525.C1279177425	Sum	huceuvbh, hucguvbh
UP_CS4_RLC_BLK	ACCUMULATION	INT8	L9005:Total Number of Uplink RLC Data Blocks Using CS4	B1275072525.C1279177421	Sum	huceuvbh, hucguvbh
UP_GPRS_RLC_AVG_THRPUT_RATE	INTENSITY	FLOAT	TL9014:Averag e Throughput of Uplink GPRS RLC (kbit/s)	B1275072525.C1279177430	Average	Average, huceuvbh, hucguvbh, Maximum, Minimum, Sum
UP_GPRS_RLC_SGL_TBF_AVG_THRPUT	INTENSITY	FLOAT	TL9015:Averag e Payload of Single Uplink GPRS TBF (KB)	B1275072525.C1279177431	Average	Average, huceuvbh, hucguvbh, Maximum, Minimum, Sum

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UP_GPRS_TBF_CS_DEGRADE	ACCUMULATION	INT8	L9017: Number of CS Degrades on Uplink GPRS TBF	B1275072525.C1279177433	Sum	huceuvbh, hucguvbh
UP_GPRS_TBF_CS_UPGRADE	ACCUMULATION	INT8	L9016: Number of CS Upgrades on Uplink GPRS TBF	B1275072525.C1279177432	Sum	huceuvbh, hucguvbh
UP_GPRS	ACCUMULATION	INT8	L9001: Total Number of Uplink GPRS RLC Data Blocks	B1275072525.C1279177417	Sum	huceuvbh
UP_RLC_SIG_BLK	ACCUMULATION	INT8	L9018: Number of Uplink GPRS RLC Control Blocks	B1275072525.C1279177434	Sum	huceuvbh, hucguvbh
UP_TOTAL_GPRS_TBF	ACCUMULATION	INT8	L9019: Total Number of Uplink GPRS TBFs	B1275072525.C1279177435	Sum	huceuvbh, hucguvbh

### 7.9.131 Cell.Huawei.GSM.UL\_GPRS\_TBF\_estab\_and\_RLS\_cap

Uplink GPRS TBF establishment and release capability

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ABNORM_REL_FLUSH	ACCUMULATION	INT8	A9009: Number of Uplink GPRS TBF Abnormal Releases due to FLUSH	B1275072521.C1279173425	Sum	huceuvbh, hucguvbh
ABNORM_REL_NO_CHANNEL_RES	ACCUMULATION	INT8	A9010: Number of Uplink GPRS TBF Abnormal Releases due to No Channel	B1275072521.C1279173426	Sum	huceuvbh, hucguvbh

ABNORM_REL_SUSPEND	ACCUMULATION	INT8	A9008: Number of Uplink GPRS TBF Abnormal Releases due to SUSPEND	B1275072521.C12 79173424	Sum	hucevvh, hucguvh
ABNRM_REL_ABIS_RES_PREEMPT	ACCUMULATION	INT8	A9040: Number of Abnormal Uplink GPRS TBF Releases due to Abis Resource Preemption	B1275072521.C12 82411780	Sum	hucevvh, hucguvh
ABNRM_REL_CS_HO	ACCUMULATION	INT8	A9039: Number of Abnormal Uplink GPRS TBF Releases due to CS Handover	B1275072521.C12 79173455	Sum	hucevvh, hucguvh
ABNRM_REL_EGPRS_USER_ACS	ACCUMULATION	INT8	A9034: Number of Abnormal Uplink GPRS TBF Releases Because of EGPRS User Access	B1275072521.C12 79173450	Sum	hucevvh, hucguvh
ABNRM_REL_N3101_OFLOW	ACCUMULATION	INT8	A9006: Number of Uplink GPRS TBF Abnormal Releases due to N3101 Overflow (MS No Response)	B1275072521.C12 79173422	Sum	hucevvh, hucguvh
ABNRM_REL_N3103_OFLOW	ACCUMULATION	INT8	A9007: Number of Uplink GPRS TBF Abnormal	B1275072521.C12 79173423	Sum	hucevvh, hucguvh

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			Releases due to N3103 Overflow (MS No Response)			
ABNRM_REL_OTHER_FLOW_CTRL	ACCUMULATION	INTEGER	A9031: Number of Uplink GPRS TBF Abnormal Releases due to other cause(flow ctrl) .Obsolete in V900R011.	B1275072521.C12 79173447	Sum	huceuvbh, hucguvbh
ABNRM_REL_OTHER_GRRM_TBF_REL	ACCUMULATION	INTEGER	A9033: Number of Uplink GPRS TBF Abnormal Releases due to other cause(grm tbf rel) .Obsolete in V900R011.	B1275072521.C12 79173449	Sum	huceuvbh, hucguvbh
ABNRM_REL_OTHER_INTRA_REL	ACCUMULATION	INTEGER	A9032: Number of Uplink GPRS TBF Abnormal Releases due to other cause(intra rel) .Obsolete in V900R011.	B1275072521.C12 79173448	Sum	huceuvbh, hucguvbh
AVG_NUM	INTENSITY	FLOAT	AA9013: Average Number of Concurrent Uplink GPRS TBFs	B1275072521.C12 79173429	Average	Average, huceuvbh, hucguvbh, Maximum, Minimum, Sum
AVG_TIME	INTENSITY	FLOAT	AA9015: Average Duration of Uplink GPRS	B1275072521.C12 79173431	Average	Average, huceuvbh,

			TBF (s)			hucgvb h, Maximum, Minimum, Sum
ESTABLISH_S UCC	ACCUMULA TION	INT8	A9002: Number of Successful Uplink GPRS TBF Establishments	B1275072521.C12 79173418	Sum	hucev b h, hucgv b h
ESTB_ATMPT	ACCUMULA TION	INT8	A9001: Number of Uplink GPRS TBF Establishment Attempts	B1275072521.C12 79173417	Sum	hucev b h, hucgv b h
ESTB_FAIL_M S_NO_RESP_F LUSH	ACCUMULA TION	INTEG ER	A9025: Number of Failed Uplink GPRS TBF Establishments due to MS No Response(flush) .Obsolete in V900R011.	B1275072521.C12 79173441	Sum	hucev b h, hucgv b h
ESTB_FAIL_M S_NO_RESP_I NCONS	ACCUMULA TION	INTEG ER	A9020: Number of Failed Uplink GPRS TBF Establishments due to MS No Response(State inconsistent) .Obsolete in V900R011.	B1275072521.C12 79173436	Sum	hucev b h, hucgv b h
ESTB_FAIL_M S_NO_RESP_ MSG_ERR	ACCUMULA TION	INTEG ER	A9021: Number of Failed Uplink GPRS TBF Establishments due to MS No	B1275072521.C12 79173437	Sum	hucev b h, hucgv b h

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			Response(msg err) .Obsolete in V900R011.			
ESTB_FAIL_M S_NO_RESP_ N3101_OVF	ACCUMULA TION	INTEG ER	A9019: Number of Failed Uplink GPRS TBF Establishments due to MS No Response(N3101 overflow) .Obsolete in V900R011.	B1275072521.C12 79173435	Sum	hucevvh, hucgubh
ESTB_FAIL_M S_NO_RESP_ OTHER	ACCUMULA TION	INTEG ER	A9027: Number of Failed Uplink GPRS TBF Establishments due to MS No Response(other cause) .Obsolete in V900R011.	B1275072521.C12 79173443	Sum	hucevvh, hucgubh
ESTB_FAIL_M S_NO_RESP_ Q_FULL	ACCUMULA TION	INTEG ER	A9022: Number of Failed Uplink GPRS TBF Establishments due to MS No Response(ass queue full) .Obsolete in V900R011.	B1275072521.C12 79173438	Sum	hucevvh, hucgubh
ESTB_FAIL_M S_NO_RESP_R ASS_FAIL	ACCUMULA TION	INTEG ER	A9023: Number of Failed Uplink GPRS TBF Establishments due to MS No Response(res ass fail) .Obsolete in V900R011.	B1275072521.C12 79173439	Sum	hucevvh, hucgubh
ESTB_FAIL_M S_NO_RESP_S USPEND	ACCUMULA TION	INTEG ER	A9024: Number of Failed Uplink GPRS TBF Establishments due to MS No	B1275072521.C12 79173440	Sum	hucevvh, hucgubh

			Response(gprs suspended) .Obsolete in V900R011.			
ESTB_FAIL_MS_NO_RESP_UM_AB	ACCUMULATION	INTEGER	A9026: Number of Failed Uplink GPRS TBF Establishments due to MS No Response(UM abnormal) .Obsolete in V900R011.	B1275072521.C12 79173442	Sum	hucevvh, hucguvvh
ESTB_FAIL_MS_NO_RESP	ACCUMULATION	INT8	A9004: Number of Failed Uplink GPRS TBF Establishments due to MS No Response	B1275072521.C12 79173420	Sum	hucevvh, hucguvvh
ESTB_FAIL_NO_CHAN_RES	ACCUMULATION	INT8	A9003: Number of Failed Uplink GPRS TBF Establishments due to No Channel	B1275072521.C12 79173419	Sum	hucevvh, hucguvvh
ESTB_FAIL_OTHER_FLOW_CTRL	ACCUMULATION	INTEGER	A9029: Number of Failed Uplink GPRS TBF Establishments due to other cause(flow ctrl) .Obsolete in V900R011.	B1275072521.C12 79173445	Sum	hucevvh, hucguvvh
ESTB_FAIL_OTHER_INTRA_REL	ACCUMULATION	INTEGER	A9030: Number of Failed Uplink GPRS TBF Establishments due to other	B1275072521.C12 79173446	Sum	hucevvh, hucguvvh

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			cause(intra rel) .Obsolete in V900R011.			
ESTB_FAIL_OTHER_MS_RESP_RASG	ACCUMULATION	INTEGER	A9038: Number of Failed Uplink GPRS TBF Establishments due to Other Causes (MS Responding with Resource Assignment Failure) .Obsolete in V900R011.	B1275072521.C12 79173454	Sum	hucevbh, hucguvbh
ESTB_FAIL_OTHER_MS_SEND_RASG	ACCUMULATION	INTEGER	A9037: Number of Failed Uplink GPRS TBF Establishments due to Other Causes (MSIP Sending Resource Assignment Fails) .Obsolete in V900R011.	B1275072521.C12 79173453	Sum	hucevbh, hucguvbh
ESTB_FAIL_OTHER_RES_REQ	ACCUMULATION	INTEGER	A9028: Number of Failed Uplink GPRS TBF Establishments due to other cause(res req) .Obsolete in V900R011.	B1275072521.C12 79173444	Sum	hucevbh, hucguvbh
MAX_SAMPLE_NUM	INTENSITY	INT8	A9036: Maximum Number of Sampled Concurrent Uplink GPRS TBFs	B1275072521.C12 79173452	Average	hucevbh, hucguvbh, Sum, Minimum, Maximum
MOVE_EGPRS	ACCUMULATION	INT8	A9035: Number	B1275072521.C12	Sum	hucevbh

_USER_ACS	TION		of Uplink GPRS TBF Movements Because of EGPRS User Access	79173451		h, hucguvb h
NORMAL_RELEASE	ACCUMULATION	INT8	A9005: Number of Uplink GPRS TBF Normal Releases	B1275072521.C12 79173421	Sum	huceuvb h, hucguvb h
SAMPLE_TIMES	ACCUMULATION	INT8	A9012: Sampling Times of Concurrent Uplink GPRS TBFs	B1275072521.C12 79173428	Sum	huceuvb h, hucguvb h
TOTAL_SAMPLE_NUM	ACCUMULATION	INT8	A9011: Total Number of Sampled Concurrent Uplink GPRS TBFs	B1275072521.C12 79173427	Sum	huceuvb h, hucguvb h
TOTAL_TIME	ACCUMULATION	INT8	A9014: Total Duration of Uplink GPRS TBF (ms)	B1275072521.C12 79173430	Sum	huceuvb h, hucguvb h
UP_GPRS_TBF_ABNORMAL_RELEASE_OTHERCAUSE	ACCUMULATION	INT8	A9018: Number of Uplink GPRS TBF Abnormal Releases due to other cause	B1275072521.C12 79173434	Sum	huceuvb h, hucguvb h
UP_GPRS_TBF_ABNORMAL_RELEASE_PREEMPT	ACCUMULATION	INT8	A9017: Number of Uplink GPRS TBF Abnormal Releases due to channel	B1275072521.C12 79173433	Sum	huceuvb h, hucguvb h

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			preempt			
UP_GPRS_TBF_ESTBFAIL_OTHCAUS	ACCUMULATION	INT8	A9016: Number of Failed Uplink GPRS TBF Establishments due to other cause	B1275072521.C12 79173432	Sum	hucevbh, hucgvbh

### 7.9.132Cell.Huawei.GSM.UL\_llc\_data\_transfer\_capability

Uplink LLC data transfer capability

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
AVG_THRUP_EGPRS_BKGND_LLC_PDU	INTENSITY	FLOAT	AL9419: Average Throughput of Uplink EGPRS Background Service LLC PDU	B1275072531.C12 79183435	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
AVG_THRUP_EGPRS_THP2_LLC_LAYER	INTENSITY	FLOAT	AL9439: Average Throughput of Uplink EGPRS Interactive Service at THP2 LLC Layer	B1275072531.C12 79183455	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
AVG_THRUP_EGPRS_THP3_LLC_LAYER	INTENSITY	FLOAT	AL9440: Average Throughput of Uplink EGPRS Interactive Service at THP3 LLC Layer	B1275072531.C12 79183456	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
AVG_THRUP_GPRS_BKGND_LLC_PDU	INTENSITY	FLOAT	AL9417: Average Throughput of Uplink GPRS	B1275072531.C12 79183433	Average	hucsvbh, huctvbh, Sum, Minimum

			Background Service LLC PDU			m, Maximum
AVG_THRUP_GPRS_THP1_LLC_LAYER	INTENSITY	FLOAT	AL9418:Average Throughput of Uplink GPRS Interactive Service at THP1 LLC Layer	B1275072531.C1279183434	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
AVG_THRUP_GPRS_THP2_LLC_LAYER	INTENSITY	FLOAT	AL9437:Average Throughput of Uplink GPRS Interactive Service at THP2 LLC Layer	B1275072531.C1279183453	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
AVG_THRUP_GPRS_THP3_LLC_LAYER	INTENSITY	FLOAT	AL9438:Average Throughput of Uplink GPRS Interactive Service at THP3 LLC Layer	B1275072531.C1279183454	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
AVG_THRUP_THP1_LLC_LAYER	INTENSITY	FLOAT	AL9420:Average Throughput of Uplink Interactive Service at THP1 LLC Layer	B1275072531.C1279183436	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
LLC_LLC_UP_THRUP_RATE	INTENSITY	FLOAT	TL9406:Uplink LLC Throughput Rate (kbit/s)	B1275072531.C1279183422	Average	Average, hucsvbh, huctvbh, Maximum

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						m, Minimum, Sum
LLC_TX_BKGN D_LLC_PDU_T OTAL_BYTE	ACCUMULA TION	INT8	L9410:Total Bytes of Uplink EGPRS Background Service LLC PDU's Sent	B1275072531.C12 79183426	Sum	hucsvbh, huctvbh
LLC_TX_INTA CT_LLC_PDU_ TOTAL_BYTE	ACCUMULA TION	INT8	L9411:Total Bytes of Uplink EGPRS Interactive Service LLC PDU's Sent	B1275072531.C12 79183427	Sum	hucsvbh, huctvbh
LLC_TX_STRM _LLC_PDU_TO TAL_BYTE	ACCUMULA TION	INT8	L9412:Total Bytes of Uplink EGPRS Streaming Service LLC PDU's Sent	B1275072531.C12 79183428	Sum	hucsvbh, huctvbh
LLC_TX_UL_B KGND_LLC_PD U_TOTAL_BYT E	ACCUMULA TION	INT8	L9407:Total Bytes of Uplink GPRS Background Service LLC PDU's Sent	B1275072531.C12 79183423	Sum	hucsvbh, huctvbh
LLC_TX_UL_IN TACT_LLC_PD U_TOT_BYTE	ACCUMULA TION	INT8	L9408:Total Bytes of Uplink GPRS Interactive Service LLC PDU's Sent	B1275072531.C12 79183424	Sum	hucsvbh, huctvbh
LLC_TX_UL_S TRM_LLC_PDU _TOTAL_BYTE	ACCUMULA TION	INT8	L9409:Total Bytes of Uplink GPRS Streaming Service LLC PDU's Sent	B1275072531.C12 79183425	Sum	hucsvbh, huctvbh
LLC_TX_UPLI NK_LLC_PDU_ TOTAL_BYTE	ACCUMULA TION	INT8	L9403:Total Bytes of Uplink	B1275072531.C12 79183419	Sum	hucsvbh, huctvbh

TOTAL_BYTE			LLC PDUs Sent			
LLC_TX_UPLINK_LLCPDU	ACCUMULATION	INT8	L9402: Number of Uplink LLC PDUs sent	B1275072531.C12 79183418	Sum	hucsvbh, huctvbh
LLC_UP_LLCPDU_AVG_LEN	INTENSITY	FLOAT	AL9404: Average Length of Uplink LLC PDU	B1275072531.C12 79183420	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
LLC_UP_TBF_AVG_TX_BYTE	INTENSITY	FLOAT	AL9405: Average LLC PDU Bytes per Uplink TBF	B1275072531.C12 79183421	Average	Average, hucsvbh, huctvbh, Maximum, Minimum, Sum
LLC_UP_TBF_TOTAL	ACCUMULATION	INT8	L9401: Total Number of Uplink TBFs	B1275072531.C12 79183417	Sum	hucsvbh, huctvbh
MAX_THRUP_EGPRS_USER_LLCPDU	INTENSITY	INT8	L9428: Maximum Uplink Throughput of EGPRS Users LLC PDU (kbit/s)	B1275072531.C12 79183444	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
MAX_THRUP_GPRS_USER_LLCPDU	INTENSITY	INT8	L9427: Maximum Uplink Throughput of GPRS Users LLC PDU (kbit/s)	B1275072531.C12 79183443	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
THRUP_EGPRS	INTENSITY	INT8	L9415: Through	B1275072531.C12	Average	hucsvbh,

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_BKGND_LLC_PDU			put of Uplink EGPRS Background Service LLC PDU	79183431		huctvbh, Sum, Minimum, Maximum
THRUP_EGPRS_THP1_LLC_PDU	INTENSITY	INT8	L9416:Through put of Uplink EGPRS Interactive Service THP1 LLC PDU	B1275072531.C12 79183432	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
THRUP_EGPRS_THP2_LLC_PDU	INTENSITY	INT8	L9435:Through put of Uplink EGPRS Interactive Service THP2 LLC PDU	B1275072531.C12 79183451	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
THRUP_EGPRS_THP3_LLC_PDU	INTENSITY	INT8	L9436:Through put of Uplink EGPRS Interactive Service THP3 LLC PDU	B1275072531.C12 79183452	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
THRUP_EGPRS_USER_LLC_PDU_KBITS	INTENSITY	FLOAT	AL9426:Uplink Throughput of EGPRS Users LLC PDU (kbit/s)	B1275072531.C12 79183442	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
THRUP_EGPRS_USERS_LLC_PDU	INTENSITY	INT8	L9424:Through put of Uplink EGPRS Users LLC PDU	B1275072531.C12 79183440	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
THRUP_GPRS_	INTENSITY	INT8	L9413:Through	B1275072531.C12	Average	hucsvbh,

BKGND_LLC_PDU			put of Uplink GPRS Background Service LLC PDU	79183429		huctvbh, Sum, Minimum, Maximum
THRUP_GPRS_THP1_LLC_PDU	INTENSITY	INT8	L9414:Through put of Uplink GPRS Interactive Service THP1 LLC PDU	B1275072531.C12 79183430	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
THRUP_GPRS_THP2_LLC_PDU	INTENSITY	INT8	L9433:Through put of Uplink GPRS Interactive Service THP2 LLC PDU	B1275072531.C12 79183449	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
THRUP_GPRS_THP3_LLC_PDU	INTENSITY	INT8	L9434:Through put of Uplink GPRS Interactive Service THP3 LLC PDU	B1275072531.C12 79183450	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
THRUP_GPRS_USERS_LLC_PDU_KBITS	INTENSITY	FLOAT	AL9425:Uplink Throughput of GPRS Users LLC PDU (kbit/s)	B1275072531.C12 79183441	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
THRUP_GPRS_USERS_LLC_PDU	INTENSITY	INT8	L9422:Through put of Uplink GPRS Users LLC PDU	B1275072531.C12 79183438	Average	hucsvbh, huctvbh, Sum, Minimum

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						m, Maximum
TOT_BYTE_EGPRS_THP2_LLC_PDU_TX	ACCUMULATION	INT8	L9431:Total Bytes of Uplink EGPRS Interactive Service THP2 LLC PDUs Sent	B1275072531.C12 79183447	Sum	hucsvbh, huctvbh
TOT_BYTE_EGPRS_THP3_LLC_PDU_TX	ACCUMULATION	INT8	L9432:Total Bytes of Uplink EGPRS Interactive Service THP3 LLC PDUs Sent	B1275072531.C12 79183448	Sum	hucsvbh, huctvbh
TOT_BYTE_GPRS_THP2_LLC_PDU_TX	ACCUMULATION	INT8	L9429:Total Bytes of Uplink GPRS Interactive Service THP2 LLC PDUs Sent	B1275072531.C12 79183445	Sum	hucsvbh, huctvbh
TOT_BYTE_GPRS_THP3_LLC_PDU_TX	ACCUMULATION	INT8	L9430:Total Bytes of Uplink GPRS Interactive Service THP3 LLC PDUs Sent	B1275072531.C12 79183446	Sum	hucsvbh, huctvbh
TOT_BYTE_TX_GPRS_INFO_MSG	ACCUMULATION	INT8	L9458:Total Bytes of Received Uplink GPRS Information Messages	B1275072531.C12 79183474	Sum	hucsvbh, huctvbh
TOT_BYTES_EGPRS_USERS_LLC_PDU	ACCUMULATION	INT8	L9423:Total Bytes of Uplink EGPRS Users LLC PDUs	B1275072531.C12 79183439	Sum	hucsvbh, huctvbh

TOT_BYTES_G PRS_USERS_LL C_PDU	ACCUMULA TION	INT8	L9421:Total Bytes of Uplink GPRS Users LLC PDUs	B1275072531.C12 79183437	Sum	hucsvbh, huctvbh
TOT_TX_DUR_ EGPRS_BKGN D	ACCUMULA TION	INT8	L9453:Total Transmission Duration of Uplink EGPRS Background Service	B1275072531.C12 79183469	Sum	hucsvbh, huctvbh
TOT_TX_DUR_ EGPRS_THP1	ACCUMULA TION	INT8	L9454:Total Transmission Duration of Uplink EGPRS Interactive Service THP1	B1275072531.C12 79183470	Sum	hucsvbh, huctvbh
TOT_TX_DUR_ EGPRS_THP2	ACCUMULA TION	INT8	L9455:Total Transmission Duration of Uplink EGPRS Interactive Service THP2	B1275072531.C12 79183471	Sum	hucsvbh, huctvbh
TOT_TX_DUR_ EGPRS_THP3	ACCUMULA TION	INT8	L9456:Total Transmission Duration of Uplink EGPRS Interactive Service THP3	B1275072531.C12 79183472	Sum	hucsvbh, huctvbh
TOT_TX_DUR_ GPRS_BKGND	ACCUMULA TION	INT8	L9449:Total Transmission Duration of Uplink GPRS Background Service	B1275072531.C12 79183465	Sum	hucsvbh, huctvbh
TOT_TX_DUR_ GPRS_THP1	ACCUMULA TION	INT8	L9450:Total Transmission Duration of Uplink GPRS	B1275072531.C12 79183466	Sum	hucsvbh, huctvbh

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			Interactive Service THP1			
TOT_TX_DUR_GPRS_THP2	ACCUMULATION	INT8	L9451:Total Transmission Duration of Uplink GPRS Interactive Service THP2	B1275072531.C12 79183467	Sum	hucsvbh, huctvbh
TOT_TX_DUR_GPRS_THP3	ACCUMULATION	INT8	L9452:Total Transmission Duration of Uplink GPRS Interactive Service THP3	B1275072531.C12 79183468	Sum	hucsvbh, huctvbh
TX_EGPRS_BK_GND	ACCUMULATION	INT8	L9445:Number of Transmissions of Uplink EGPRS Background Service	B1275072531.C12 79183461	Sum	hucsvbh, huctvbh
TX_EGPRS_TH_P1	ACCUMULATION	INT8	L9446:Number of Transmissions of Uplink EGPRS Interactive Service THP1	B1275072531.C12 79183462	Sum	hucsvbh, huctvbh
TX_EGPRS_TH_P2	ACCUMULATION	INT8	L9447:Number of Transmissions of Uplink EGPRS Interactive Service THP2	B1275072531.C12 79183463	Sum	hucsvbh, huctvbh
TX_EGPRS_TH_P3	ACCUMULATION	INT8	L9448:Number of Transmissions of Uplink EGPRS Interactive Service THP3	B1275072531.C12 79183464	Sum	hucsvbh, huctvbh

TX_GPRS_BK ND	ACCUMULA TION	INT8	L9441: Number of Transmissions of Uplink GPRS Background Service	B1275072531.C12 79183457	Sum	hucsvbh, huctvbh
TX_GPRS_INF FORMATION_M SG	ACCUMULA TION	INT8	L9457: Number of Received Uplink GPRS Information Messages	B1275072531.C12 79183473	Sum	hucsvbh, huctvbh
TX_GPRS_THP 1	ACCUMULA TION	INT8	L9442: Number of Transmissions of Uplink GPRS Interactive Service THP1	B1275072531.C12 79183458	Sum	hucsvbh, huctvbh
TX_GPRS_THP 2	ACCUMULA TION	INT8	L9443: Number of Transmissions of Uplink GPRS Interactive Service THP2	B1275072531.C12 79183459	Sum	hucsvbh, huctvbh
TX_GPRS_THP 3	ACCUMULA TION	INT8	L9444: Number of Transmissions of Uplink GPRS Interactive Service THP3	B1275072531.C12 79183460	Sum	hucsvbh, huctvbh

### 7.9.133Cell.Huawei.GSM.Uplink\_8PSK\_MEAN\_BEP

Measurement of the Uplink 8PSK\_MEAN\_BEP.

KPI	Type	Data	Description	Derivation	Default	Other
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		Type			Aggregator	Aggregators
TIMES_UL_8 PSK_MEAN_ BEP_0	ACCUMULATION	INTEGER	S9601: Number of Times UPLINK_8PSK_MEAN_BEP=0 .Obsolete in V900R011.	B1275072539.C127 9191417	Sum	
TIMES_UL_8 PSK_MEAN_ BEP_10	ACCUMULATION	INTEGER	S9611: Number of Times UPLINK_8PSK_MEAN_BEP=10 .Obsolete in V900R011.	B1275072539.C127 9191427	Sum	
TIMES_UL_8 PSK_MEAN_ BEP_11	ACCUMULATION	INTEGER	S9612: Number of Times UPLINK_8PSK_MEAN_BEP=11 .Obsolete in V900R011.	B1275072539.C127 9191428	Sum	
TIMES_UL_8 PSK_MEAN_ BEP_12	ACCUMULATION	INTEGER	S9613: Number of Times UPLINK_8PSK_MEAN_BEP=12 .Obsolete in V900R011.	B1275072539.C127 9191429	Sum	
TIMES_UL_8 PSK_MEAN_ BEP_13	ACCUMULATION	INTEGER	S9614: Number of Times UPLINK_8PSK_MEAN_BEP=13 .Obsolete in V900R011.	B1275072539.C127 9191430	Sum	
TIMES_UL_8 PSK_MEAN_ BEP_14	ACCUMULATION	INTEGER	S9615: Number of Times UPLINK_8PSK_MEAN_BEP=14 .Obsolete in V900R011.	B1275072539.C127 9191431	Sum	
TIMES_UL_8 PSK_MEAN_ BEP_15	ACCUMULATION	INTEGER	S9616: Number of Times UPLINK_8PSK	B1275072539.C127 9191432	Sum	

			_MEAN_BEP= 15 .Obsolete in V900R011.			
TIMES_UL_8 PSK_MEAN_ BEP_16	ACCUMULA TION	INTEG ER	S9617: Number of Times UPLINK_8PSK _MEAN_BEP= 16 .Obsolete in V900R011.	B1275072539.C127 9191433	Sum	
TIMES_UL_8 PSK_MEAN_ BEP_17	ACCUMULA TION	INTEG ER	S9618: Number of Times UPLINK_8PSK _MEAN_BEP= 17 .Obsolete in V900R011.	B1275072539.C127 9191434	Sum	
TIMES_UL_8 PSK_MEAN_ BEP_18	ACCUMULA TION	INTEG ER	S9619: Number of Times UPLINK_8PSK _MEAN_BEP= 18 .Obsolete in V900R011.	B1275072539.C127 9191435	Sum	
TIMES_UL_8 PSK_MEAN_ BEP_19	ACCUMULA TION	INTEG ER	S9620: Number of Times UPLINK_8PSK _MEAN_BEP= 19 .Obsolete in V900R011.	B1275072539.C127 9191436	Sum	
TIMES_UL_8 PSK_MEAN_ BEP_1	ACCUMULA TION	INTEG ER	S9602: Number of Times UPLINK_8PSK _MEAN_BEP= 1 .Obsolete in V900R011.	B1275072539.C127 9191418	Sum	
TIMES_UL_8 PSK_MEAN_ BEP_20	ACCUMULA TION	INTEG ER	S9621: Number of Times UPLINK_8PSK _MEAN_BEP= 20 .Obsolete in	B1275072539.C127 9191437	Sum	

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			V900R011.			
TIMES_UL_8 PSK_MEAN_ BEP_21	ACCUMULA TION	INTEG ER	S9622: Number of Times UPLINK_8PSK _MEAN_BEP= 21 .Obsolete in V900R011.	B1275072539.C127 9191438	Sum	
TIMES_UL_8 PSK_MEAN_ BEP_22	ACCUMULA TION	INTEG ER	S9623: Number of Times UPLINK_8PSK _MEAN_BEP= 22 .Obsolete in V900R011.	B1275072539.C127 9191439	Sum	
TIMES_UL_8 PSK_MEAN_ BEP_23	ACCUMULA TION	INTEG ER	S9624: Number of Times UPLINK_8PSK _MEAN_BEP= 23 .Obsolete in V900R011.	B1275072539.C127 9191440	Sum	
TIMES_UL_8 PSK_MEAN_ BEP_24	ACCUMULA TION	INTEG ER	S9625: Number of Times UPLINK_8PSK _MEAN_BEP= 24 .Obsolete in V900R011.	B1275072539.C127 9191441	Sum	
TIMES_UL_8 PSK_MEAN_ BEP_25	ACCUMULA TION	INTEG ER	S9626: Number of Times UPLINK_8PSK _MEAN_BEP= 25 .Obsolete in V900R011.	B1275072539.C127 9191442	Sum	
TIMES_UL_8 PSK_MEAN_ BEP_26	ACCUMULA TION	INTEG ER	S9627: Number of Times UPLINK_8PSK _MEAN_BEP= 26 .Obsolete in V900R011.	B1275072539.C127 9191443	Sum	
TIMES_UL_8 PSK_MEAN_ BEP_27	ACCUMULA TION	INTEG ER	S9628: Number of Times UPLINK_8PSK _MEAN_BEP=	B1275072539.C127 9191444	Sum	

			27 .Obsolete in V900R011.			
TIMES_UL_8 PSK_MEAN_ BEP_28	ACCUMULA TION	INTEG ER	S9629:Number of Times UPLINK_8PSK _MEAN_BEP= 28 .Obsolete in V900R011.	B1275072539.C127 9191445	Sum	
TIMES_UL_8 PSK_MEAN_ BEP_29	ACCUMULA TION	INTEG ER	S9630:Number of Times UPLINK_8PSK _MEAN_BEP= 29 .Obsolete in V900R011.	B1275072539.C127 9191446	Sum	
TIMES_UL_8 PSK_MEAN_ BEP_2	ACCUMULA TION	INTEG ER	S9603:Number of Times UPLINK_8PSK _MEAN_BEP= 2 .Obsolete in V900R011.	B1275072539.C127 9191419	Sum	
TIMES_UL_8 PSK_MEAN_ BEP_30	ACCUMULA TION	INTEG ER	S9631:Number of Times UPLINK_8PSK _MEAN_BEP= 30 .Obsolete in V900R011.	B1275072539.C127 9191447	Sum	
TIMES_UL_8 PSK_MEAN_ BEP_31	ACCUMULA TION	INTEG ER	S9632:Number of Times UPLINK_8PSK _MEAN_BEP= 31 .Obsolete in V900R011.	B1275072539.C127 9191448	Sum	
TIMES_UL_8 PSK_MEAN_ BEP_3	ACCUMULA TION	INTEG ER	S9604:Number of Times UPLINK_8PSK _MEAN_BEP= 3 .Obsolete in V900R011.	B1275072539.C127 9191420	Sum	

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TIMES_UL_8 PSK_MEAN_ BEP_4	ACCUMULA TION	INTEG ER	S9605: Number of Times UPLINK_8PSK _MEAN_BEP= 4 .Obsolete in V900R011.	B1275072539.C127 9191421	Sum	
TIMES_UL_8 PSK_MEAN_ BEP_5	ACCUMULA TION	INTEG ER	S9606: Number of Times UPLINK_8PSK _MEAN_BEP= 5 .Obsolete in V900R011.	B1275072539.C127 9191422	Sum	
TIMES_UL_8 PSK_MEAN_ BEP_6	ACCUMULA TION	INTEG ER	S9607: Number of Times UPLINK_8PSK _MEAN_BEP= 6 .Obsolete in V900R011.	B1275072539.C127 9191423	Sum	
TIMES_UL_8 PSK_MEAN_ BEP_7	ACCUMULA TION	INTEG ER	S9608: Number of Times UPLINK_8PSK _MEAN_BEP= 7 .Obsolete in V900R011.	B1275072539.C127 9191424	Sum	
TIMES_UL_8 PSK_MEAN_ BEP_8	ACCUMULA TION	INTEG ER	S9609: Number of Times UPLINK_8PSK _MEAN_BEP= 8 .Obsolete in V900R011.	B1275072539.C127 9191425	Sum	
TIMES_UL_8 PSK_MEAN_ BEP_9	ACCUMULA TION	INTEG ER	S9610: Number of Times UPLINK_8PSK _MEAN_BEP= 9 .Obsolete in V900R011.	B1275072539.C127 9191426	Sum	

### 7.9.134Cell.Huawei.GSM.Uplink\_GMSK\_MEAN\_BEP

Measurement of the Uplink GMSK\_MEAN\_BEP.

KPI	Type	Data	Description	Derivation	Default	Other
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		Type			Aggregator	Aggregators
TIMES_UL_GMSK_MEAN_BEP_0	ACCUMULATION	INTEGER	S9501: Number of Times UPLINK_GMSK_MEAN_BEP=0 .Obsolete in V900R011.	B1275072538.C1279190417	Sum	
TIMES_UL_GMSK_MEAN_BEP_10	ACCUMULATION	INTEGER	S9511: Number of Times UPLINK_GMSK_MEAN_BEP=10 .Obsolete in V900R011.	B1275072538.C1279190427	Sum	
TIMES_UL_GMSK_MEAN_BEP_11	ACCUMULATION	INTEGER	S9512: Number of Times UPLINK_GMSK_MEAN_BEP=11 .Obsolete in V900R011.	B1275072538.C1279190428	Sum	
TIMES_UL_GMSK_MEAN_BEP_12	ACCUMULATION	INTEGER	S9513: Number of Times UPLINK_GMSK_MEAN_BEP=12 .Obsolete in V900R011.	B1275072538.C1279190429	Sum	
TIMES_UL_GMSK_MEAN_BEP_13	ACCUMULATION	INTEGER	S9514: Number of Times UPLINK_GMSK_MEAN_BEP=13 .Obsolete in V900R011.	B1275072538.C1279190430	Sum	
TIMES_UL_GMSK_MEAN_BEP_14	ACCUMULATION	INTEGER	S9515: Number of Times UPLINK_GMSK_MEAN_BEP=14 .Obsolete in V900R011.	B1275072538.C1279190431	Sum	

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TIMES_UL_G MSK_MEAN_ BEP_15	ACCUMULA TION	INTEG ER	S9516: Number of Times UPLINK_GMS K_MEAN_BEP =15 .Obsolete in V900R011.	B1275072538.C127 9190432	Sum	
TIMES_UL_G MSK_MEAN_ BEP_16	ACCUMULA TION	INTEG ER	S9517: Number of Times UPLINK_GMS K_MEAN_BEP =16 .Obsolete in V900R011.	B1275072538.C127 9190433	Sum	
TIMES_UL_G MSK_MEAN_ BEP_17	ACCUMULA TION	INTEG ER	S9518: Number of Times UPLINK_GMS K_MEAN_BEP =17 .Obsolete in V900R011.	B1275072538.C127 9190434	Sum	
TIMES_UL_G MSK_MEAN_ BEP_18	ACCUMULA TION	INTEG ER	S9519: Number of Times UPLINK_GMS K_MEAN_BEP =18 .Obsolete in V900R011.	B1275072538.C127 9190435	Sum	
TIMES_UL_G MSK_MEAN_ BEP_19	ACCUMULA TION	INTEG ER	S9520: Number of Times UPLINK_GMS K_MEAN_BEP =19 .Obsolete in V900R011.	B1275072538.C127 9190436	Sum	
TIMES_UL_G MSK_MEAN_ BEP_1	ACCUMULA TION	INTEG ER	S9502: Number of Times UPLINK_GMS K_MEAN_BEP =1 .Obsolete in V900R011.	B1275072538.C127 9190418	Sum	
TIMES_UL_G MSK_MEAN_ BEP_20	ACCUMULA TION	INTEG ER	S9521: Number of Times UPLINK_GMS K_MEAN_BEP =20 .Obsolete in V900R011.	B1275072538.C127 9190437	Sum	

TIMES_UL_GMSK_MEAN_BEP_21	ACCUMULATION	INTEGER	S9522: Number of Times UPLINK_GMSK_MEAN_BEP=21 .Obsolete in V900R011.	B1275072538.C1279190438	Sum	
TIMES_UL_GMSK_MEAN_BEP_22	ACCUMULATION	INTEGER	S9523: Number of Times UPLINK_GMSK_MEAN_BEP=22 .Obsolete in V900R011.	B1275072538.C1279190439	Sum	
TIMES_UL_GMSK_MEAN_BEP_23	ACCUMULATION	INTEGER	S9524: Number of Times UPLINK_GMSK_MEAN_BEP=23 .Obsolete in V900R011.	B1275072538.C1279190440	Sum	
TIMES_UL_GMSK_MEAN_BEP_24	ACCUMULATION	INTEGER	S9525: Number of Times UPLINK_GMSK_MEAN_BEP=24 .Obsolete in V900R011.	B1275072538.C1279190441	Sum	
TIMES_UL_GMSK_MEAN_BEP_25	ACCUMULATION	INTEGER	S9526: Number of Times UPLINK_GMSK_MEAN_BEP=25 .Obsolete in V900R011.	B1275072538.C1279190442	Sum	
TIMES_UL_GMSK_MEAN_BEP_26	ACCUMULATION	INTEGER	S9527: Number of Times UPLINK_GMSK_MEAN_BEP=26 .Obsolete in V900R011.	B1275072538.C1279190443	Sum	
TIMES_UL_GMSK_MEAN_BEP_27	ACCUMULATION	INTEGER	S9528: Number of Times	B1275072538.C1279190444	Sum	

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BEP_27			UPLINK_GMSK_MEAN_BEP=27 .Obsolete in V900R011.			
TIMES_UL_GMSK_MEAN_BEP_28	ACCUMULATION	INTEGER	S9529:Number of Times UPLINK_GMSK_MEAN_BEP=28 .Obsolete in V900R011.	B1275072538.C1279190445	Sum	
TIMES_UL_GMSK_MEAN_BEP_29	ACCUMULATION	INTEGER	S9530:Number of Times UPLINK_GMSK_MEAN_BEP=29 .Obsolete in V900R011.	B1275072538.C1279190446	Sum	
TIMES_UL_GMSK_MEAN_BEP_2	ACCUMULATION	INTEGER	S9503:Number of Times UPLINK_GMSK_MEAN_BEP=2 .Obsolete in V900R011.	B1275072538.C1279190419	Sum	
TIMES_UL_GMSK_MEAN_BEP_30	ACCUMULATION	INTEGER	S9531:Number of Times UPLINK_GMSK_MEAN_BEP=30 .Obsolete in V900R011.	B1275072538.C1279190447	Sum	
TIMES_UL_GMSK_MEAN_BEP_31	ACCUMULATION	INTEGER	S9532:Number of Times UPLINK_GMSK_MEAN_BEP=31 .Obsolete in V900R011.	B1275072538.C1279190448	Sum	
TIMES_UL_GMSK_MEAN_BEP_3	ACCUMULATION	INTEGER	S9504:Number of Times UPLINK_GMSK_MEAN_BEP=3 .Obsolete in V900R011.	B1275072538.C1279190420	Sum	
TIMES_UL_G	ACCUMULATION	INTEGER	S9505:Number	B1275072538.C127	Sum	

MSK_MEAN_BEP_4	TION	ER	of Times UPLINK_GMS K_MEAN_BEP =4 .Obsolete in V900R011.	9190421		
TIMES_UL_G MSK_MEAN_BEP_5	ACCUMULA TION	INTEG ER	S9506: Number of Times UPLINK_GMS K_MEAN_BEP =5 .Obsolete in V900R011.	B1275072538.C127 9190422	Sum	
TIMES_UL_G MSK_MEAN_BEP_6	ACCUMULA TION	INTEG ER	S9507: Number of Times UPLINK_GMS K_MEAN_BEP =6 .Obsolete in V900R011.	B1275072538.C127 9190423	Sum	
TIMES_UL_G MSK_MEAN_BEP_7	ACCUMULA TION	INTEG ER	S9508: Number of Times UPLINK_GMS K_MEAN_BEP =7 .Obsolete in V900R011.	B1275072538.C127 9190424	Sum	
TIMES_UL_G MSK_MEAN_BEP_8	ACCUMULA TION	INTEG ER	S9509: Number of Times UPLINK_GMS K_MEAN_BEP =8 .Obsolete in V900R011.	B1275072538.C127 9190425	Sum	
TIMES_UL_G MSK_MEAN_BEP_9	ACCUMULA TION	INTEG ER	S9510: Number of Times UPLINK_GMS K_MEAN_BEP =9 .Obsolete in V900R011.	B1275072538.C127 9190426	Sum	

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### 7.9.135Cell.Huawei.GSM.VBS\_assignment

Measurement in the VBS assignment procedure.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ASG_PREEMP T_RQ	ACCUMULA TION	INT8	A03436:VBS Assignment Preempt Request	B1275071520.C12 78172430	Sum	hucsvbh, huctvbh
ASG_Q_RQ	ACCUMULA TION	INT8	A03434:VBS Assignment Queue Request	B1275071520.C12 78172428	Sum	hucsvbh, huctvbh
ASG_RQ	ACCUMULA TION	INT8	A03423:VBS Assignment Request	B1275071520.C12 78172417	Sum	hucsvbh, huctvbh
CHNL_ACTIV ATE_TO_ASG	ACCUMULA TION	INT8	A03432:Chann el Activation Timeout During VBS Assignment (TIMEOUT)	B1275071520.C12 78172426	Sum	hucsvbh, huctvbh
SUCC_ASG_PR EEMPT_RATE	INTENSITY	FLOA T	A03440:Succe ssful VBS Assignment Preemption Rate	B1275071520.C12 78172434	Average	hucsvbh, huctvbh, Sum, Minimu m, Maximu m
SUCC_ASG_PR EEMPT	ACCUMULA TION	INT8	A03437:Succe ssful VBS Assignment Preemption	B1275071520.C12 78172431	Sum	hucsvbh, huctvbh
SUCC_ASG_Q_ OPERATION_R ATE	INTENSITY	FLOA T	A03439:Succe ssful VBS Assignment Queue Operation Rate	B1275071520.C12 78172433	Average	hucsvbh, huctvbh, Sum, Minimu m, Maximu m
SUCC_ASG_Q_	ACCUMULA	INT8	A03435:Succe	B1275071520.C12	Sum	hucsvbh,

OPERATION	TION		sfu VBS Assignment Queue Operation	78172429		huctvbh
SUCC_ASG_RATE	INTENSITY	FLOAT	A03438:Successful VBS Assignment Rate	B1275071520.C1278172432	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
SUCC_ASG	ACCUMULATION	INT8	A03424:Successful VBS Assignment	B1275071520.C1278172418	Sum	hucsvbh, huctvbh
UNSUCC_ASG_EQUIP_FAIL	ACCUMULATION	INT8	A03426:Unsuccessful VBS Assignment (Equipment Failure)	B1275071520.C1278172420	Sum	hucsvbh, huctvbh
UNSUCC_ASG_INVALID_MSG	ACCUMULATION	INT8	A03429:Unsuccessful VBS Assignment (Invalid Message Contents)	B1275071520.C1278172423	Sum	hucsvbh, huctvbh
UNSUCC_ASG_NO_RADIO_RESOURCES_AVL	ACCUMULATION	INT8	A03430:Unsuccessful VBS Assignment (No Radio Resource Available)	B1275071520.C1278172424	Sum	hucsvbh, huctvbh
UNSUCC_ASG_OTHERS	ACCUMULATION	INT8	A03431:Unsuccessful VBS Assignment (Other Causes)	B1275071520.C1278172425	Sum	hucsvbh, huctvbh
UNSUCC_ASG_RQ_TRES_UN	ACCUMULATION	INT8	A03427:Unsuccessful VBS	B1275071520.C1278172421	Sum	hucsvbh, huctvbh

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AVL			Assignment (Requested Terrestrial Resource Unavailable)			
UNSUCC_ASG_TCKT_ALLO C	ACCUMULATION	INT8	A03428:Unsuccessful VBS Assignment (Terrestrial Circuit Already Allocated)	B1275071520.C12 78172422	Sum	hucsvbh, huctvbh
UNSUCC_ASG	ACCUMULATION	INT8	A03425:Unsuccessful VBS Assignment	B1275071520.C12 78172419	Sum	hucsvbh, huctvbh
UNSUCC_CHNL_ACTIVATE_ ASG_NACK	ACCUMULATION	INT8	A03433:Unsuccessful Channel Activation During VBS Assignment (NACK)	B1275071520.C12 78172427	Sum	hucsvbh, huctvbh

### 7.9.136Cell.Huawei.GSM.VBS\_downlink\_seizure

Measurement of busy VBS downlink channels and the traffic volume on the VBS downlink channels.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
BUSY_VBS_DL_TCH	ACCUMULATION	INT8	A03461:Number of Busy VBS Down Link TCH	B1275071525.C127 8177417	Sum	hucsvbh, huctvbh
TRAF_VOL_VBS_DL_TCH	ACCUMULATION	INT8	A03462:Traffic Volume of VBS Down Link TCH	B1275071525.C127 8177418	Sum	hucsvbh, huctvbh

### 7.9.137Cell.Huawei.GSM.VBS\_uplink\_seizure

Measurement of the VBS uplink call drops, the number of busy VBS uplink channels, and the traffic volume on the VBS uplink channels.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
BUSY_VBS_UL_TCH	ACCUMULATION	INT8	A03458: Number of Busy VBS Up Link TCH	B1275071524.C1278176418	Sum	hucsvbh, huctvbh
TRAF_VOL_VBS_UL_TCH	ACCUMULATION	INT8	A03459: Traffic Volume of VBS Up Link TCH	B1275071524.C1278176419	Sum	hucsvbh, huctvbh
VBS_TCH_UL_CALL_DROP	ACCUMULATION	INT8	A03457: VBS TCH Uplink Call Drop	B1275071524.C1278176417	Sum	hucsvbh, huctvbh

### 7.9.138Cell.Huawei.GSM.VGCS\_assignment

Measurement in the VGCS assignment procedure.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ASG_PREEMPT_RQ	ACCUMULATION	INT8	A03418: VGCS Assignment Preempt Request	B1275071519.C1278171430	Sum	hucsvbh, huctvbh
ASG_Q_RQ	ACCUMULATION	INT8	A03416: VGCS Assignment Queue Request	B1275071519.C1278171428	Sum	hucsvbh, huctvbh
ASG_RQ	ACCUMULATION	INT8	A03405: VGCS Assignment Request	B1275071519.C1278171417	Sum	hucsvbh, huctvbh
CHNL_ACTIVATION_TIMEOUT_DURING_VGCS_ASSIGNMENT (TIMEOUT)	ACCUMULATION	INT8	A03415: Channel Activation Timeout During VGCS Assignment (TIMEOUT)	B1275071519.C1278171427	Sum	hucsvbh, huctvbh

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SUCC_ASG_PREEMPT_RATE	INTENSITY	FLOAT	A03422:Successful VGCS Assignment Preemption Rate	B1275071519.C1278171434	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
SUCC_ASG_PREEMPT	ACCUMULATION	INT8	A03419:Successful VGCS Assignment Preemption	B1275071519.C1278171431	Sum	hucsvbh, huctvbh
SUCC_ASG_QOPERATION_RATE	INTENSITY	FLOAT	A03421:Successful VGCS Assignment Queue Operation Rate	B1275071519.C1278171433	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
SUCC_ASG_QOPERATION	ACCUMULATION	INT8	A03417:Successful VGCS Assignment Queue Operation	B1275071519.C1278171429	Sum	hucsvbh, huctvbh
SUCC_ASG_RATE	INTENSITY	FLOAT	A03420:Successful VGCS Assignment Rate	B1275071519.C1278171432	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
SUCC_ASG	ACCUMULATION	INT8	A03406:Successful VGCS Assignment	B1275071519.C1278171418	Sum	hucsvbh, huctvbh
UNSUCCEED_ASG_EQUIP_FAIL	ACCUMULATION	INT8	A03408:Unsuccessful VGCS Assignment (Equipment Failure)	B1275071519.C1278171420	Sum	hucsvbh, huctvbh
UNSUCCEED_ASG_INVALID_MSG	ACCUMULATION	INT8	A03411:Unsuccessful VGCS Assignment	B1275071519.C1278171423	Sum	hucsvbh, huctvbh

			(Invalid Message Contents)			
UNSUCC_ASG_NO_RADIO_AVL	ACCUMULATION	INT8	A03412:Unsuccessful VGCS Assignment (No Radio Resource Available)	B1275071519.C1278171424	Sum	hucsvbh, huctvbh
UNSUCC_ASG_OTHERS	ACCUMULATION	INT8	A03413:Unsuccessful VGCS Assignment (Other Causes)	B1275071519.C1278171425	Sum	hucsvbh, huctvbh
UNSUCC_ASG_RQ_TRES_UNAVL	ACCUMULATION	INT8	A03409:Unsuccessful VGCS Assignment (Requested Terrestrial Resource Unavailable)	B1275071519.C1278171421	Sum	hucsvbh, huctvbh
UNSUCC_ASG_TCKT_ALLOC	ACCUMULATION	INT8	A03410:Unsuccessful VGCS Assignment (Terrestrial Circuit Already Allocated)	B1275071519.C1278171422	Sum	hucsvbh, huctvbh
UNSUCC_ASG	ACCUMULATION	INT8	A03407:Unsuccessful VGCS Assignment	B1275071519.C1278171419	Sum	hucsvbh, huctvbh
UNSUCC_CHNL_ACTIVATE_ASG_NACK	ACCUMULATION	INT8	A03414:Unsuccessful Channel Activation During VGCS Assignment (NACK)	B1275071519.C1278171426	Sum	hucsvbh, huctvbh

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### 7.9.139Cell.Huawei.GSM.VGCS\_downlink\_detection

Measurement of VGCS TCHs released in downlink detection in the cell.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
VGCS_TCH_REL	ACCUMULATION	INT8	A03441:VGCS TCH Released for Downlink Detection	B1275071521.C1278173417	Sum	hucsvbh, huctvbh

### 7.9.140Cell.Huawei.GSM.VGCS\_downlink\_seizure

Measurement of busy VGCS downlink TCHs and the traffic volume on the VGCS downlink TCHs.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
BUSY_DL_TCH	ACCUMULATION	INT8	A03455:Number of Busy VGCS Down Link TCH	B1275071523.C1278175417	Sum	hucsvbh, huctvbh
TRAF_VOL_DL_TCH	ACCUMULATION	INT8	A03456:Traffic Volume of VGCS Down Link TCH	B1275071523.C1278175418	Sum	hucsvbh, huctvbh

### 7.9.141Cell.Huawei.GSM.VGCS\_handovers

Measurement counters related to the VGCS handover causes.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ATT_BETTER_CELL	ACCUMULATION	INT8	A03503:Attempted VGCS TCH Handovers for Better Cell	B1275071530.C1278182424	Sum	hucsvbh, huctvbh
ATT_DL_QUALITY	ACCUMULATION	INT8	A03499:Attempted VGCS TCH Handovers for Downlink Quality	B1275071530.C1278182420	Sum	hucsvbh, huctvbh

ATT_DL_STR ENGTH	ACCUMULA TION	INT8	A03501:Attemp ted VGCS TCH Handovers for Downlink Strength	B1275071530.C127 8182422	Sum	hucsvbh, huctvbh
ATT_F_SHFT	ACCUMULA TION	INT8	A03496:Attemp ted VGCS TCH Handovers for Frequency Shift	B1275071530.C127 8182417	Sum	hucsvbh, huctvbh
ATT_OM_ITV N	ACCUMULA TION	INT8	A03507:Attemp ted VGCS TCH Handovers for OM Intervention	B1275071530.C127 8182428	Sum	hucsvbh, huctvbh
ATT_OTHERS	ACCUMULA TION	INT8	A03508:Attemp ted VGCS TCH Handovers for Other Causes	B1275071530.C127 8182429	Sum	hucsvbh, huctvbh
ATT_QUICK_ PBG	ACCUMULA TION	INT8	A03497:Attemp ted VGCS TCH Handovers for Quick PBGT	B1275071530.C127 8182418	Sum	hucsvbh, huctvbh
ATT_RAPID_R X_DROP	ACCUMULA TION	INT8	A03505:Attemp ted VGCS TCH Handovers for Rapid Rxlevel Drop	B1275071530.C127 8182426	Sum	hucsvbh, huctvbh
ATT_RESP_M SC_ITVN	ACCUMULA TION	INT8	A03506:Attemp ted VGCS TCH Handovers for Response to MSC intervention	B1275071530.C127 8182427	Sum	hucsvbh, huctvbh
ATT_TIMING_ ADV	ACCUMULA TION	INT8	A03502:Attemp ted VGCS TCH Handovers for Timing	B1275071530.C127 8182423	Sum	hucsvbh, huctvbh

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			Advance			
ATT_TRAF_LOAD	ACCUMULATION	INT8	A03504:Attempted VGCS TCH Handovers for Traffic Load	B1275071530.C127 8182425	Sum	hucsvbh, huctvbh
ATT_UL_QUALITY	ACCUMULATION	INT8	A03498:Attempted VGCS TCH Handovers for Uplink Quality	B1275071530.C127 8182419	Sum	hucsvbh, huctvbh
ATT_UL_STRENGTH	ACCUMULATION	INT8	A03500:Attempted VGCS TCH Handovers for Uplink Strength	B1275071530.C127 8182421	Sum	hucsvbh, huctvbh
SUCC_BETTER_CELL	ACCUMULATION	INT8	A03516:Successful VGCS TCH Handovers for Better Cell	B1275071530.C127 8182437	Sum	hucsvbh, huctvbh
SUCC_DL_QUALITY	ACCUMULATION	INT8	A03512:Successful VGCS TCH Handovers for Downlink Quality	B1275071530.C127 8182433	Sum	hucsvbh, huctvbh
SUCC_DL_STRENGTH	ACCUMULATION	INT8	A03514:Successful VGCS TCH Handovers for Downlink Strength	B1275071530.C127 8182435	Sum	hucsvbh, huctvbh
SUCC_F_SHFT	ACCUMULATION	INT8	A03509:Successful VGCS TCH Handovers for Frequency Shift	B1275071530.C127 8182430	Sum	hucsvbh, huctvbh
SUCC_OM_INTVN	ACCUMULATION	INT8	A03520:Successful VGCS TCH Handovers for OM Intervention	B1275071530.C127 8182441	Sum	hucsvbh, huctvbh

SUCC_OTHER_S	ACCUMULATION	INT8	A03521:Successful VGCS TCH Handovers for Other Causes	B1275071530.C127 8182442	Sum	hucsvbh, huctvbh
SUCC_QUICK_PBGT	ACCUMULATION	INT8	A03510:Successful VGCS TCH Handovers for Quick PBGT	B1275071530.C127 8182431	Sum	hucsvbh, huctvbh
SUCC_RAPID_RX_DROP	ACCUMULATION	INT8	A03518:Successful VGCS TCH Handovers for Rapid Rxlevel Drop	B1275071530.C127 8182439	Sum	hucsvbh, huctvbh
SUCC_RESP_MSC_ITVN	ACCUMULATION	INT8	A03519:Successful VGCS TCH Handovers for Response to MSC Intervention	B1275071530.C127 8182440	Sum	hucsvbh, huctvbh
SUCC_TIMING_ADV	ACCUMULATION	INT8	A03515:Successful VGCS TCH Handovers for Timing Advance	B1275071530.C127 8182436	Sum	hucsvbh, huctvbh
SUCC_TRAFF_LOAD	ACCUMULATION	INT8	A03517:Successful VGCS TCH Handovers for Traffic Load	B1275071530.C127 8182438	Sum	hucsvbh, huctvbh
SUCC_UL_QUALITY	ACCUMULATION	INT8	A03511:Successful VGCS TCH Handovers for	B1275071530.C127 8182432	Sum	hucsvbh, huctvbh

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			Uplink Quality			
SUCC_UL_STRENGTH	ACCUMULATION	INT8	A03513:Successful VGCS TCH Handovers for Uplink Strength	B1275071530.C1278182434	Sum	hucsvbh, huctvbh
TOT_ATT_VGCS_TCH_HO	ACCUMULATION	INT8	Total Attempted VGCS TCH Handovers	B1275071530.C1278182417 + C1278182418 + C1278182419 + C1278182420 + C1278182421 + C1278182422 + C1278182423 + C1278182424 + C1278182425 + C1278182426 + C1278182427 + C1278182428 + C1278182429 + C1278182430 + C1278182431 + C1278182432 + C1278182433 + C1278182434 + C1278182435 + C1278182436 + C1278182437 + C1278182438 + C1278182439 + C1278182440 + C1278182441 + C1278182442	Sum	hucsvbh, huctvbh

### 7.9.142Cell.Huawei.GSM.VGCS\_uplink\_seizure

Measurement counters related to the VGCS uplink seizures

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
BUSY_UL_TCH	ACCUMULATION	INT8	A03451:Number of Busy VGCS Up Link TCH	B1275071522.C1278174426	Sum	hucsvbh, huctvbh

SUCC_SZ_RATE	INTENSITY	FLOAT	A03453:Successful VGCS Uplink Seizure Rate	B1275071522.C1278174428	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum
SUCC_SZ	ACCUMULATION	INT8	A03443:Successful VGCS Uplink Seizures	B1275071522.C1278174418	Sum	hucsvbh, huctvbh
SZ_RQ	ACCUMULATION	INT8	A03442:VGCS Uplink Seizure Request	B1275071522.C1278174417	Sum	hucsvbh, huctvbh
TRAF_VOL_UL_TCH	ACCUMULATION	INT8	A03452:Traffic Volume of VGCS UP Link TCH	B1275071522.C1278174427	Sum	hucsvbh, huctvbh
UNSUCC_SZ_BSC_REJECTED	ACCUMULATION	INT8	A03444:Unsuccessful VGCS Uplink Seizures (BSC Rejected)	B1275071522.C1278174419	Sum	hucsvbh, huctvbh
UNSUCC_SZ_MSC_REJECTED	ACCUMULATION	INT8	A03445:Unsuccessful VGCS Uplink Seizures (MSC Rejected)	B1275071522.C1278174420	Sum	hucsvbh, huctvbh
UNSUCC_SZ_UL_ESTB_IND_TO	ACCUMULATION	INT8	A03447:Unsuccessful VGCS Uplink Seizures (Uplink Establish Indication Timeout)	B1275071522.C1278174422	Sum	hucsvbh, huctvbh
UNSUCC_SZ_UL_RQ_ACK_TO	ACCUMULATION	INT8	A03446:Unsuccessful VGCS Uplink Seizures (Uplink Request Acknowledge	B1275071522.C1278174421	Sum	hucsvbh, huctvbh

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			Timeout)			
UNSUCC_SZ_USER_REL	ACCUMULATION	INT8	A03448:Unsuccessful VGCS Uplink Seizures (User Release)	B1275071522.C1278174423	Sum	hucsvbh, huctvbh
VGCS_TCH_MEAS	ACCUMULATION	INT8	A03450:VGCS TCH Measurements	B1275071522.C1278174425	Sum	hucsvbh, huctvbh
VGCS_TCH_UL_CALL_DROP	ACCUMULATION	INT8	A03449:VGCS TCH Uplink Call Drop	B1275071522.C1278174424	Sum	hucsvbh, huctvbh
VGCS_TCH_UL_CD_RATE	INTENSITY	FLOAT	A03454:VGCS TCH Uplink Call Drop Rate	B1275071522.C1278174429	Average	hucsvbh, huctvbh, Sum, Minimum, Maximum

## 7.10 Cell\_DPC Performance Indicators

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

- [Cell\\_DPC.Huawei.GSM.Measurement\\_of\\_MSC](#)

### 7.10.1 Cell\_DPC.Huawei.GSM.Measurement\_of\_MSC

Measurement of MSC

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
No_of_MSC_Selection_Based_on_IMSI	ACCUMULATION	INTEGER	M1002:Number of MSC Selections Based on IMSI	B1290823476.C1282429915	Sum	
No_of_MSC_Selection_Based_on_NRI	ACCUMULATION	INTEGER	M1003:Number of MSC Selections Based on NRI	B1290823476.C1282429916	Sum	

No_of_MSC_Selection_Based_on_ReRouting	ACCUMULATION	INTEGER	M1001: Number of MSC Selections Based on Re-Routing	B1290823476.C128 2429914	Sum	
No_of_MSC_Selection_When_Valid_Subscriber_Identity_Is_Unavailable	ACCUMULATION	INTEGER	M1004: Number of MSC Selections When Valid Subscriber Identities Are Unavailable	B1290823476.C128 2429917	Sum	

## 7.11 CELL\_LOCGRP Performance Indicators

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

- [CELL\\_LOCGRP.Huawei.GSM.Call\\_drop\\_measurement](#)
- [CELL\\_LOCGRP.Huawei.GSM.Channel\\_handover\\_measurement](#)
- [CELL\\_LOCGRP.Huawei.GSM.Channel\\_state\\_measurement](#)

### 7.11.1 CELL\_LOCGRP.Huawei.GSM.Call\_drop\_measurement

Measurement of the call drops in the cell location group.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CD_RADIO_SDCCH_CALL_TYPE	ACCUMULATION	INT8	TCM30D: Call Drops on Radio Interface (SDCCH) (Call Type) in One Location Group	B1290793538.C128 2412040	Sum	huelsvbh , hucltvbh
CD_SDCCH_CALL_TYPE	ACCUMULATION	INT8	TCM30C: Call Drops on SDCCH (Call Type) in One	B1290793538.C128 2412041	Sum	huelsvbh , hucltvbh

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			Location Group			
CD_TRAF_CHNL_TCHF	ACCUMULATION	INT8	TRM3175:Call Drops on Traffic Channel (TCHF) in One Location Group	B1290793538.C1282412044	Sum	huclsvbh , hucltvbh
CD_TRAF_CHNL_TCHH	ACCUMULATION	INT8	TRM3275:Call Drops on Traffic Channel (TCHH) in One Location Group	B1290793538.C1282412043	Sum	huclsvbh , hucltvbh
SUCC_SDCC_H_SZ_CALL_TYPE	ACCUMULATION	INT8	TK3003A:Successful SDCCCH Seizures (Call Type) in One Location Group	B1290793538.C1282412042	Sum	huclsvbh , hucltvbh
TOT_CALL_DROP_IN_LOC_GRP	ACCUMULATION	INT8	Total Call Drops on Traffic Channel in once location group	B1290793538.C1282412043 + C1282412044	Sum	huclsvbh , hucltvbh

### 7.11.2 CELL\_LOCGRP.Huawei.GSM.Channel\_handover\_measurement

Measurement of the handover on the channels in the cell location group.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
FAIL_OG_INTER_HO	ACCUMULATION	INT8	TO314:Failed Outgoing Inter-Cell Handovers in One Location Group	B1290793537.C1282411999	Sum	huclsvbh , hucltvbh
IC_INTER_LOCGRP_HO	ACCUMULATION	INT8	TO311:Number of Incoming Inter-location group Handovers	B1290793537.C1282411996	Sum	huclsvbh , hucltvbh
OG_INTER_LOCGRP_HO	ACCUMULATION	INT8	TO310:Number of Outgoing	B1290793537.C1282411995	Sum	huclsvbh ,

			Inter-location group Handovers			hucltvbh
OG_INTERC_ HO_CMD	ACCUMULA TION	INT8	TO313:Outgoin g Inter-Cell Handover Commands in One Cell Location Group	B1290793537.C128 2411998	Sum	huclsvbh , hucltvbh
OG_INTERC_ HO_RQ	ACCUMULA TION	INT8	TO312:Outgoin g Inter-Cell Handover Requests in One Location Group	B1290793537.C128 2411997	Sum	huclsvbh , hucltvbh

### 7.11.3 CELL\_LOCGRP.Huawei.GSM.Channel\_state\_measurement

Number of channels in the busy, blocked, or idle state in a cell, including the number of dynamically converted channels.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
TOT_TCH_TRAF_IN_LOCGRP	ACCUMULATION	FLOAT	Total Traffic Volume on TCH in one location group	B1290793536.C128 2424007 + C1282424045	Sum	huclsvbh
TRAF_VOL_SDCCH	ACCUMULATION	FLOAT	TK3004:Traffic Volume on SDCCH in One Location Group	B1290793536.C128 2424006	Sum	hucltvbh
TRAF_VOL_TCH_CARRYING_SIG	ACCUMULATION	FLOAT	TK3204:Traffic Volume on TCH Carrying Signalling in One Location Group	B1290793536.C128 2424045	Sum	huclsvbh , hucltvbh

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TRAF_VOL_TCH_CARRYING_TRAF	ACCUMULATION	FLOAT	TK3104:Traffic Volume on TCH Carrying Traffic in One Location Group	B1290793536.C1282424007	Sum	huelsvbh , hucltvbh
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## 7.12 CELL\_SGSNNODE Performance Indicators

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

- [CELL\\_SGSNNODE.Huawei.GSM.Measurement\\_of\\_SGSN\\_Node](#)

### 7.12.1 CELL\_SGSNNODE.Huawei.GSM.Measurement\_of\_SGSN\_Node

Measurement of SGSN Node

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
SGSN_Sel_CSP_S_Consistency	ACCUMULATION	INTEGER	R9754:Number of SGSN Selections Based on CS PS Consistency	B1290823474.C1282429913	Sum	
SGSN_Sel_ValidSubsID_Unav	ACCUMULATION	INTEGER	R9753:Number of SGSN Selections When Valid Subscriber Identities Are Unavailable	B1290823474.C1282429912	Sum	
SGSN_Selections_IMSI	ACCUMULATION	INTEGER	R9751:Number of SGSN Selections Based on IMSI	B1290823474.C1282429910	Sum	
SGSN_Selections_NRI	ACCUMULATION	INTEGER	R9752:Number of SGSN Selections Based on NRI	B1290823474.C1282429911	Sum	
SGSN_Selections_ReRouting	ACCUMULATION	INTEGER	R9750:Number of SGSN	B1290823474.C1282429909	Sum	

			Selections Based on Re-Routing			
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### 7.13 Channel\_Optical\_Port Performance Indicators

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

- [Channel\\_Optical\\_Port.Huawei.GSM.Chan\\_Optical\\_Port](#)

#### 7.13.1 Channel\_Optical\_Port.Huawei.GSM.Chan\_Optical\_Port

Channelized Optical Port Measurement

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
Faults_Duration	ACCUMULATION	INTEGER	T7247:Duration of Faults on the Channelized Optical Port	B82834001.C73404129	Sum	

### 7.14 DPC\_Group Performance Indicators

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

- [DPC\\_Group.Huawei.GSM.A\\_interface\\_circuit](#)

#### 7.14.1 DPC\_Group.Huawei.GSM.A\_interface\_circuit

A interface circuit KPIs

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
BS_A_INTF_BUSY_CIC_A	INTENSITY	FLOAT	AL0055:Mean Number of	B1275069618.C1276270434	Average	Average, Maximum

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VG			Busy Circuits on the A Interface			m, Minimum, Sum
BS_A_INTF_CONG_CIC_AVG	INTENSITY	FLOAT	AL0053:Mean Number of Blocked Circuits on the A Interface	B1275069618.C1276270428	Average	Average, Maximum, Minimum, Sum
BS_A_INTF_FAIL_CIC_AVG	INTENSITY	FLOAT	AL0051:Mean Number of Faulty Circuits on the A Interface	B1275069618.C1276270422	Average	Average, Maximum, Minimum, Sum
BS_A_INTF_IDLE_CIC_AVG	INTENSITY	FLOAT	AL0054:Mean Number of Idle Circuits on the A Interface	B1275069618.C1276270431	Average	Average, Maximum, Minimum, Sum
BS_A_INTF_MTN_CIC_AVG	INTENSITY	FLOAT	AL0052:Mean Number of Circuits in Maintenance State on the A Interface	B1275069618.C1276270425	Average	Average, Maximum, Minimum, Sum
BS_A_INTF_PEER_UNINST_CIC_AVG	INTENSITY	FLOAT	AL0089:Mean Number of Circuits with Uninstalled Peer Circuits on the A Interface	B1275069618.C1276270437	Average	Average, Maximum, Minimum, Sum
BS_A_INTF_UNINST_CIC_AVG	INTENSITY	FLOAT	AL0050:Mean Number of Uninstalled Circuits on the A Interface	B1275069618.C1276270419	Average	Average, Maximum, Minimum, Sum
L0050A	ACCUMULATION	INTEGER	L0050A:	B1275069618.C1276270417	Sum	
L0050B	ACCUMULATION	INTEGER	L0050B:	B1275069618.C1276270418	Sum	
L0051A	ACCUMULATION	INTEGER	L0051A:	B1275069618.C127	Sum	

	TION	ER		6270420		
L0051B	ACCUMULATION	INTEGER	L0051B:	B1275069618.C1276270421	Sum	
L0052A	ACCUMULATION	INTEGER	L0052A:	B1275069618.C1276270423	Sum	
L0052B	ACCUMULATION	INTEGER	L0052B:	B1275069618.C1276270424	Sum	
L0053A	ACCUMULATION	INTEGER	L0053A:	B1275069618.C1276270426	Sum	
L0053B	ACCUMULATION	INTEGER	L0053B:	B1275069618.C1276270427	Sum	
L0054A	ACCUMULATION	INTEGER	L0054A:	B1275069618.C1276270429	Sum	
L0054B	ACCUMULATION	INTEGER	L0054B:	B1275069618.C1276270430	Sum	
L0055A	ACCUMULATION	INTEGER	L0055A:	B1275069618.C1276270432	Sum	
L0055B	ACCUMULATION	INTEGER	L0055B:	B1275069618.C1276270433	Sum	
L0089A	ACCUMULATION	INTEGER	L0089A:	B1275069618.C1276270435	Sum	
L0089B	ACCUMULATION	INTEGER	L0089B:	B1275069618.C1276270436	Sum	
TOT_A_CKT	ACCUMULATION	INTEGER	Total number of circuits on the A Interface	B1275069618.C1276270417 + C1276270420 + C1276270423 + C1276270426 + C1276270429 + C1276270432 + C1276270435	Sum	

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## 7.15 E1T1 Performance Indicators

This section shows the key performance indicators and other counters for the E1T1 object, divided into the following sub-sections:

- [E1T1.Huawei.GSM.Electrical\\_port\\_utilisation](#)

### 7.15.1 E1T1.Huawei.GSM.Electrical\_port\_utilisation

E1/T1 Electrical port KPIs.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CELLS_CRC_ERR_IN_E1T1	ACCUMULATION	INT8	T7024: Number of Cells with CRC Error in the E1/T1 Electrical Port	B67109487.C67194336	Sum	
CELLS_EBIT_ERR_IN_E1T1	ACCUMULATION	INT8	T7028: Number of Cells with Ebit Error in the E1/T1 Electrical Port	B67109487.C67194337	Sum	
CELLS_ERR_CODES_IN_E1T1	ACCUMULATION	INT8	T7016: Number of Cells with Error Codes in the E1/T1 Electrical Port	B67109487.C67194334	Sum	
CELLS_ERR_FR_DLIMIT_E1T1	ACCUMULATION	INT8	T7020: Number of Cells with Error Frame Delimitation in the E1/T1 Electrical Port	B67109487.C67194335	Sum	
CELLS_SA6_ERR_IN_E1T1	ACCUMULATION	INT8	T7032: Number of Cells with Sa6 Error in the E1/T1 Electrical	B67109487.C67194338	Sum	

			Port			
DUR_OF_FAULTS_IN_E1T1	ACCUMULATION	INT8	T7035:Duration of Faults in the E1/T1 Electrical Port	B67109487.C67194341	Sum	
FRAME_ALIGN_CHANGE_E1T1	ACCUMULATION	INT8	T7039:Number of Frame Alignment Changes of the E1/T1 Electrical Port	B67109487.C67194347	Sum	
MULTIFRAMES_ON_E1T1	ACCUMULATION	INT8	T7036:Number of Multiframes on the E1/T1 Electrical Port	B67109487.C67194342	Sum	
RATE_CELL_CRC_ERR_E1T1	INTENSITY	FLOAT	T7025:Rate of Cells with CRC Error in the E1/T1 Electrical Port	B67109487.C67204490	Average	Average, Maximum, Minimum, Sum
RATE_CELL_EBIT_ERR_E1T1	INTENSITY	FLOAT	T7029:Rate of Cells with Ebit Error in the E1/T1 Electrical Port	B67109487.C67204491	Average	Average, Maximum, Minimum, Sum
RATE_CELL_ERR_CODES_E1T1	INTENSITY	FLOAT	T7017:Rate of Cells with Error Codes in the E1/T1 Electrical Port	B67109487.C67204488	Average	Average, Maximum, Minimum, Sum
RATE_CELL_FR_DLIMIT_ERR	INTENSITY	FLOAT	T7021:Rate of Cells with	B67109487.C67204489	Average	Average, Maximum

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_E1T1			Frame Delimitation Error in the E1/T1 Electrical Port			m, Minimum, Sum
TOT_CELL_ERROR	ACCUMULATION	INT8	Total number of cell with errors in E1T1 electrical port	B67109487.C67194334 + C67194335 + C67194336 + C67194337 + C67194338	Sum	
TRAF_RX_E1T1	ACCUMULATION	INT8	T7037:Traffic Received on the E1/T1 Electrical Port	B67109487.C67194343	Sum	
TRAF_TX_E1T1	ACCUMULATION	INT8	T7038:Traffic Transmitted on the E1/T1 Electrical Port	B67109487.C67194344	Sum	

## 7.16 Ethernet\_Port Performance Indicators

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

- [Ethernet\\_Port.Huawei.GSM.PIUethernet\\_port\\_utilisation](#)

### 7.16.1 Ethernet\_Port.Huawei.GSM.PIUethernet\_port\_utilisation

Ethernet port utilisation on PIU

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
AVG_RX_RATIO	INTENSITY	FLOAT	L01021:Average Receive Ratio .Obsolete in V900R011.	B1275072317.C1278969426	Average	Sum, Minimum, Maximum
AVG_TX_RATIO	INTENSITY	FLOAT	L01022:Average	B1275072317.C127	Average	Sum,

IO		T	e Send Ratio .Obsolete in V900R011.	8969427		Minimum, Maximum
BSC_PIU_FEGE_RX_FCSE ROR	ACCUMULATION	INT8	L01005: Number of Received Error Packets	B1275072317.C127 8969421	Sum	
BSC_PIU_FEGE_RX_OCTETS	ACCUMULATION	INT8	L01001: Number of Received Bytes	B1275072317.C127 8969417	Sum	
BSC_PIU_FEGE_RX_PACKETS	ACCUMULATION	INT8	L01002: Number of Received Packets	B1275072317.C127 8969418	Sum	
BSC_PIU_FEGE_TX_OCTETS	ACCUMULATION	INT8	L01003: Number of Sent Bytes	B1275072317.C127 8969419	Sum	
BSC_PIU_FEGE_TX_PACKETS	ACCUMULATION	INT8	L01004: Number of Sent Packets	B1275072317.C127 8969420	Sum	
MAX_RX_RATIO	INTENSITY	FLOAT	L01018: Maximum Receive Ratio .Obsolete in V900R011.	B1275072317.C127 8969423	Average	Sum, Minimum, Maximum
MAX_TX_RATIO	INTENSITY	FLOAT	L01017: Maximum Send Ratio .Obsolete in V900R011.	B1275072317.C127 8969422	Average	Sum, Minimum, Maximum
MIN_RX_RATIO	INTENSITY	FLOAT	L01019: Minimum Receive Ratio .Obsolete in V900R011.	B1275072317.C127 8969424	Average	Sum, Minimum, Maximum
MIN_TX_RATIO	INTENSITY	FLOAT	L01020: Minimum Send	B1275072317.C127 8969425	Average	Sum, Minimum

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			Ratio .Obsolete in V900R011.			m, Maximum
RX_BIT_ERR_RATIO	INTENSITY	FLOAT	L01023:Receive Bit Error Ratio .Obsolete in V900R011.	B1275072317.C1278969428	Average	Sum, Minimum, Maximum
TX_BIT_ERR_RATIO	INTENSITY	FLOAT	L01024:Send Bit Error Ratio .Obsolete in V900R011.	B1275072317.C1278969429	Average	Sum, Minimum, Maximum

## 7.17 FEGE Performance Indicators

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

- [FEGE.Huawei.GSM.Ethernet\\_port\\_utilisation](#)

### 7.17.1 FEGE.Huawei.GSM.Ethernet\_port\_utilisation

FEGE Ethernet port KPIs.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
BYTE_RX_FEGE	ACCUMULATION	INT8	T7101:Number of Bytes Received on the FEGE Ethernet Port	B67109488.C67204393	Sum	
BYTE_TX_FEGE	ACCUMULATION	INT8	T7104:Number of Bytes Transmitted on the FEGE Ethernet Port	B67109488.C67204394	Sum	
DUR_FAULTS_FEGE	ACCUMULATION	INT8	T7118:Duration of Faults in the FEGE Ethernet Port	B67109488.C67194368	Sum	

ERR_PKT_RX_FEGE	ACCUMULATION	INT8	T7114: Number of Error Packets Received on the FEGE Ethernet Port	B67109488.C67194364	Sum	
HIGHEST_RX_RATE_OF_FEGE	INTENSITY	FLOAT	T7121: Highest Receive Rate of the FEGE Ethernet Port	B67109488.C67194369	Average	Average, Maximum, Minimum, Sum
HIGHEST_TX_RATE_FEGE	INTENSITY	FLOAT	T7126: Highest Transmit Rate of the FEGE Ethernet Port	B67109488.C67194372	Average	Average, Maximum, Minimum, Sum
LOWEST_RX_RATE_OF_FEGE	INTENSITY	FLOAT	T7122: Lowest Receive Rate of the FEGE Ethernet Port	B67109488.C67194370	Average	Average, Maximum, Minimum, Sum
LOWEST_TX_RATE_FEGE	INTENSITY	FLOAT	T7127: Lowest Transmit Rate of the FEGE Ethernet Port	B67109488.C67194373	Average	Average, Maximum, Minimum, Sum
MEAN_RX_RATE_OF_FEGE	INTENSITY	FLOAT	T7123: Mean Receive Rate of the FEGE Ethernet Port	B67109488.C67194371	Average	Average, Maximum, Minimum, Sum
MEAN_TX_RATE_FEGE	INTENSITY	FLOAT	T7128: Mean Transmit Rate of the FEGE Ethernet Port	B67109488.C67194374	Average	Average, Maximum, Minimum, Sum
PKT_DISC_IN_TX_FEGE	ACCUMULATION	INT8	T7113: Number of Packets	B67109488.C67194363	Sum	

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			Discarded in Transmission on the FEGE Ethernet Port			
PKT_RX_FEGE	ACCUMULATION	INT8	T7107: Number of Packets Received on the FEGE Ethernet Port	B67109488.C67204395	Sum	
PKT_TX_FEGE	ACCUMULATION	INT8	T7110: Number of Packets Transmitted on the FEGE Ethernet Port	B67109488.C67204396	Sum	
UNKNOWN_PKT_RX_FEGE	ACCUMULATION	INT8	T7115: Number of Unknown Packets Received on the FEGE Ethernet Port	B67109488.C67194365	Sum	

## 7.18 FIBER Performance Indicators

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

- [FIBER.Huawei.GSM.Optical\\_port](#)
- [FIBER.Huawei.GSM.UOI\\_board](#)

### 7.18.1 FIBER.Huawei.GSM.Optical\_port

Optical port KPIs.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CELLS_RX_OPTICAL_PORT	ACCUMULATION	INT8	T7214: Number of Cells Received on the Optical Port	B67109489.C67204399	Sum	
CELLS_TX_OPTICAL_PORT	ACCUMULATION	INT8	T7217: Number of Cells	B67109489.C67204400	Sum	

			Transmitted on the Optical Port			
DUR_FAULTS_OPTICAL_PORT	ACCUMULATION	INT8	T7222:Duration of Faults on the Optical Port	B67109489.C67194393	Sum	
HIGHEST_RX_RATE_OPTICAL_PORT	INTENSITY	FLOAT	T7230:Highest Receive Rate over the Optical Port	B67109489.C67194397	Average	Average, Maximum, Minimum, Sum
HIGHEST_TX_RATE_OPTICAL_PORT	INTENSITY	FLOAT	T7225:Highest Transmit Rate over the Optical Port	B67109489.C67194394	Average	Average, Maximum, Minimum, Sum
LOWEST_RX_RATE_OPTICAL_PORT	INTENSITY	FLOAT	T7231:Lowest Receive Rate over the Optical Port	B67109489.C67194398	Average	Average, Maximum, Minimum, Sum
LOWEST_TX_RATE_OPTICAL_PORT	INTENSITY	FLOAT	T7226:Lowest Transmit Rate over the Optical Port	B67109489.C67194395	Average	Average, Maximum, Minimum, Sum
MEAN_RX_RATE_OPTICAL_PORT	INTENSITY	FLOAT	T7232:Mean Receive Rate over the Optical Port	B67109489.C67194399	Average	Average, Maximum, Minimum, Sum
MEAN_TX_RATE_OPTICAL_PORT	INTENSITY	FLOAT	T7227:Mean Transmit Rate over the Optical Port	B67109489.C67194396	Average	Average, Maximum, Minimum, Sum

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## 7.18.2 FIBER.Huawei.GSM.UOI\_board

The measurement indicates the flux of all the UOI board.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
MAX_RX_RATE_UOI_BOARD	ACCUMULATION	FLOAT	T7236:Maximum Receive Rate of UOI board	B67109549.C67204851	Sum	
MAX_TX_RATE_UOI_BOARD	ACCUMULATION	FLOAT	T7237:Maximum Transmit Rate of UOI board	B67109549.C67204852	Sum	

## 7.19 HDLC\_Link Performance Indicators

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

- [HDLC\\_Link.Huawei.GSM.HDLC\\_link\\_data](#)
- [HDLC\\_Link.Huawei.GSM.HDLC\\_of\\_PTU](#)
- [HDLC\\_Link.Huawei.GSM.HDLC\\_resources](#)
- [HDLC\\_Link.Huawei.GSM.PiuHDLCchannel](#)

### 7.19.1 HDLC\_Link.Huawei.GSM.HDLC\_link\_data

Measurement of HDLC Link.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
AVG_RATE_RX_DATA	INTENSITY	FLOAT	T7810:Average Rate for Receiving Data on the HDLC Link	B82833949.C73415662	Average	Sum, Minimum, Maximum
AVG_RATE_TX_DATA	INTENSITY	FLOAT	T7811:Average Rate for Sending Data on the HDLC Link	B82833949.C73415663	Average	Sum, Minimum, Maximum
MAX_RATE_RX_DATA	INTENSITY	FLOAT	T7808:Maximum Rate for Receiving Data	B82833949.C73415492	Average	Sum, Minimum,

			on the HDLC Link			Maximum
MAX_RATE_TX_DATA	INTENSITY	FLOAT	T7807:Maximum Rate for Sending Data on the HDLC Link	B82833949.C73415490	Average	Sum, Minimum, Maximum

### 7.19.2 HDLC\_Link.Huawei.GSM.HDLC\_of\_PTU

HDLC on PTU

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
BTSHDLC_OVERFLOW_PACKET_NUM	ACCUMULATION	INT8	SD02:Packets Overflowed over HDLC Path	B1275069432.C1276084423	Sum	
BTSHDLC_RX_CRC_ERROR_NUM	ACCUMULATION	INT8	SD003:Error CRC Packets Received over HDLC Path	B1275069432.C1276084424	Sum	
BTSHDLC_RX_CS_PACKET_NUM	ACCUMULATION	INT8	SD000A:CS Packets Received Over HDLC Path	B1275069432.C1276084418	Sum	
BTSHDLC_RX_CTRL_PACKET_NUM	ACCUMULATION	INT8	SD002:Control-Plane Packets Received over HDLC Path	B1275069432.C1276084422	Sum	
BTSHDLC_RX_PS_PACKET_NUM	ACCUMULATION	INT8	SD001:PS Packets Received Over HDLC Path	B1275069432.C1276084420	Sum	
BTSHDLC_TX_CS_PACKET_NUM	ACCUMULATION	INT8	SD010A:CS Packets Sent	B1275069432.C1276084417	Sum	

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M			Over HDLC Path			
BTSHDLC_TX_CTRL_PACKET_NUM	ACCUMULATION	INT8	SD012:Control-Plane Packets Sent over HDLC Path	B1275069432.C1276084421	Sum	
BTSHDLC_TX_PS_PACKET_NUM	ACCUMULATION	INT8	SD011:PS Packets Sent Over HDLC Path	B1275069432.C1276084419	Sum	
TOT_RX_PKT	ACCUMULATION	INT8	Total Packets Received over HDLC Path	B1275069432.C1276084418 + C1276084420 + C1276084422 + C1276084424	Sum	
TOT_TX_PKT	ACCUMULATION	INT8	Total Packets Sent Over HDLC Path	B1275069432.C1276084417 + C1276084419 + C1276084421	Sum	

### 7.19.3 HDLC\_Link.Huawei.GSM.HDLC\_resources

HDLC resources

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
BS_ADJ_IN_HUBBTS_FAIL_SUM	ACCUMULATION	INTEGER	L1103:Total Number of Failed Adjustment on HDLC Resources in HUBBTS	B1275070219.C1276871420	Sum	
BS_ALLOC_HDLC_FAIL_BY_CONG	ACCUMULATION	INTEGER	L1100:Total Number of Applications for HDLC Resources	B1275070219.C1276871417	Sum	
BS_RES_ALLOC_HDLC_F	ACCUMULATION	INTEGER	L1101:Total Number of	B1275070219.C1276871418	Sum	

AIL_BY_NO_RES			Failed Applications for HDLC Resources			
BS_RES_ALL OC_HDLC_F AIL_BY_OTH ER	ACCUMULATION	INTEGER	L1102:Total Number of Adjustment on HDLC Resources in HUBBTS	B1275070219.C12 76871419	Sum	

#### 7.19.4 HDLC\_Link.Huawei.GSM.PiuHDLCchannel

HDLC channel on PIU

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
AVECFGBAND_RATE	INTENSITY	INTEGER	L01016:Average Bandwidth Configured for an HDLC Channel	B1275072417.C12 79069427	Average	Average, Maximum, Minimum, Sum
AVERECEIVE_RATE	INTENSITY	INTEGER	L01009:Average Rate for Receiving Messages on an HDLC Channel	B1275072417.C12 79069420	Average	Average, Maximum, Minimum, Sum
AVESEND_RATE	INTENSITY	INTEGER	L01007:Average Rate for Sending Messages on an HDLC Channel	B1275072417.C12 79069418	Average	Average, Maximum, Minimum, Sum
MAXRECEIVE_RATE	INTENSITY	INTEGER	L01008:Maximum Rate for Receiving	B1275072417.C12 79069419	Constant	Average, Maximum,

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			Messages on an HDLC Channel			Minimum, Sum
MAXSEND_RATE	INTENSITY	INTEGER	L01006:Maximum Rate for Sending Messages on an HDLC Channel	B1275072417.C12 79069417	Constant	Average, Maximum, Minimum, Sum
RECEIVEBYTE_TOTAL	ACCUMULATION	INT8	L01013:Total Number of Bytes Received on an HDLC Channel	B1275072417.C12 79069424	Sum	
RECEIVEPKG_DISCARD_TOTAL	ACCUMULATION	INT8	L01015:Total Number of Discarded Packets Received on an HDLC Channel	B1275072417.C12 79069426	Sum	
RECEIVEPKG_TOTAL	ACCUMULATION	INT8	L01011:Total Number of Packets Received on an HDLC Channel	B1275072417.C12 79069422	Sum	
SENDBYTE_TOTAL	ACCUMULATION	INT8	L01012:Total Number of Bytes Sent on an HDLC Channel	B1275072417.C12 79069423	Sum	
SENDPKG_DISCARD_TOTAL	ACCUMULATION	INT8	L01014:Total Number of Discarded Packets Sent on an HDLC Channel	B1275072417.C12 79069425	Sum	
SENDPKG_TOTAL	ACCUMULATION	INT8	L01010:Total Number of	B1275072417.C12 79069421	Sum	

			Packets Sent on an HDLC Channel			
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## 7.20 IPPATH\_BSC Performance Indicators

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

- [IPPATH\\_BSC.Huawei.GSM.IPPath\\_IP\\_layer](#)
- [IPPATH\\_BSC.Huawei.GSM.IPPath\\_QOS](#)
- [IPPATH\\_BSC.Huawei.GSM.IPPM\\_utilisation](#)

### 7.20.1 IPPATH\_BSC.Huawei.GSM.IPPath\_IP\_layer

IPPath IP Layer measurement.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
BYTE_DISC_RECEPTION_IPLAYER	ACCUMULATION	INT8	T7408: Number of Bytes Discarded in Reception at the IP Layer of an IP Path	B67109495.C67195402	Sum	
BYTE_DISC_TX_IPLAYER	ACCUMULATION	INT8	T7404: Number of Bytes Discarded in Transmission at the IP Layer of an IP Path	B67109495.C67195398	Sum	
BYTE_RX_IPLAYER	ACCUMULATION	INT8	T7406: Number of Bytes Received at the IP Layer of an IP Path	B67109495.C67195400	Sum	
BYTE_TX_IPLAYER	ACCUMULATION	INT8	T7402: Number of Bytes	B67109495.C67195396	Sum	

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			Transmitted at the IP Layer of an IP Path			
MAX_RX_RATE_IPLAYER	INTENSITY	FLOAT	T7413:Maximum Receive Rate of an IP Path at the IP Layer	B67109495.C6720 4700	Average	Sum, Minimum, Maximum
MAX_TX_RATE_IPLAYER	INTENSITY	FLOAT	T7410:Maximum Transmit Rate of an IP Path at the IP Layer	B67109495.C6720 4698	Average	Sum, Minimum, Maximum
MEAN_RX_RATE_IPLAYER	INTENSITY	FLOAT	T7414:Mean Receive Rate of an IP Path at the IP Layer	B67109495.C6720 4701	Average	Sum, Minimum, Maximum
MEAN_TX_RATE_IPLAYER	INTENSITY	FLOAT	T7411:Mean Transmit Rate of an IP Path at the IP Layer	B67109495.C6720 4699	Average	Sum, Minimum, Maximum
PKT_DISC_RECEPTION_IPLAYER	ACCUMULATION	INT8	T7407:Number of Packets Discarded in Reception at the IP Layer of an IP Path	B67109495.C6719 5401	Sum	
PKT_DISC_TX_IPLAYER	ACCUMULATION	INT8	T7403:Number of Packets Discarded in Transmission at the IP Layer of an IP Path	B67109495.C6719 5397	Sum	
PKT_RX_IPLAYER	ACCUMULATION	INT8	T7405:Number of Packets Received at the IP Layer of an IP Path	B67109495.C6719 5399	Sum	
PKT_TX_IPLAYER	ACCUMULATION	INT8	T7401:Number	B67109495.C6719	Sum	

YER	TION		of Packets Transmitted at the IP Layer of an IP Path	5395		
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### 7.20.2 IPPATH\_BSC.Huawei.GSM.IPPath\_QOS

Measurement related to IPPath IP Layer QOS priority queue.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
BYTE_DISC_RECEPT_IPLAYER	ACCUMULATION	INT8	T7437: Number of Bytes Discarded in Reception at the IP Layer of an IP Path QOS Queue	B67109540.C67195412	Sum	
BYTE_DISC_TX_IPLAYER	ACCUMULATION	INT8	T7433: Number of Bytes Discarded in Transmission at the IP Layer of an IP Path QOS Queue	B67109540.C67195408	Sum	
BYTE_RX_IPLAYER	ACCUMULATION	INT8	T7435: Number of Bytes Received at the IP Layer of an IP Path QOS Queue	B67109540.C67195410	Sum	
BYTE_TX_IPLAYER	ACCUMULATION	INT8	T7431: Number of Bytes Transmitted at the IP Layer of an IP Path QOS Queue	B67109540.C67195406	Sum	

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MAX_RX_RATE_IPLAYER	INTENSITY	FLOAT	T7442:Maximum Receive Rate at the IP Layer of an IP Path QOS Queue	B67109540.C67204704	Average	Sum, Minimum, Maximum
MAX_TX_RATE_IPLAYER	INTENSITY	FLOAT	T7439:Maximum Transmit Rate at the IP Layer of an IP Path QOS Queue	B67109540.C67204702	Average	Sum, Minimum, Maximum
MEAN_RX_RATE_IPLAYER	INTENSITY	FLOAT	T7443:Mean Receive Rate at the IP Layer of an IP Path QOS Queue	B67109540.C67204705	Average	Sum, Minimum, Maximum
MEAN_TX_RATE_IPLAYER	INTENSITY	FLOAT	T7440:Mean Transmit Rate at the IP Layer of an IP Path QOS Queue	B67109540.C67204703	Average	Sum, Minimum, Maximum
PKT_DISC_RECEPT_IPLAYER	ACCUMULATION	INT8	T7436:Number of Packets Discarded in Reception at the IP Layer of an IP Path QOS Queue	B67109540.C67195411	Sum	
PKT_DISC_TX_IPLAYER	ACCUMULATION	INT8	T7432:Number of Packets Discarded in Transmission at the IP Layer of an IP Path QOS Queue	B67109540.C67195407	Sum	
PKT_RX_IPLAYER	ACCUMULATION	INT8	T7434:Number of Packets Received at the IP Layer of an IP Path QOS Queue	B67109540.C67195409	Sum	

PKT_TX_IPLAYER	ACCUMULATION	INT8	T7430: Number of Packets Transmitted at the IP Layer of an IP Path QOS Queue	B67109540.C67195405	Sum	
TOT_DISCARD_PKT	ACCUMULATION	INT8	Total number of packets discarded at the IP layer	B67109540.C67195407 + C67195411	Sum	
TOT_DISCARD_QOS_QUANTITY	ACCUMULATION	INT8	Total number of bytes discarded at the IP Layer of IP Path QOS Queue	B67109540.C67195408 + C67195412	Sum	

### 7.20.3 IPPATH\_BSC.Huawei.GSM.IPPM\_utilisation

Measurement related to IPPM.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
AVG_FWD_PACKET_LOSS_RATE	INTENSITY	FLOAT	T7676: Average Forward Packet Loss Rate of IPPM	B67109539.C67204127	Average	Sum, Minimum, Maximum
AVG_RTT_DELAY	INTENSITY	FLOAT	T7680: Average RTT Delay of IPPM	B67109539.C67204132	Average	Sum, Minimum, Maximum
AVG_RX_BIT_RATE	INTENSITY	FLOAT	T7672: Average RX Bit Rate of IPPM	B67109539.C67204121	Average	Sum, Minimum, Maximum

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AVG_RX_PKT_RATE_PEER_END	INTENSITY	FLOAT	T7673:Average RX Packet Rate of Peer End of IPPM	B67109539.C67204122	Average	Sum, Minimum, Maximum
AVG_TX_BIT_RATE	INTENSITY	FLOAT	T7668:Average TX Bit Rate of IPPM	B67109539.C67204117	Average	Sum, Minimum, Maximum
AVG_TX_PKT_RATE	INTENSITY	FLOAT	T7669:Average TX Packet Rate of IPPM	B67109539.C67204118	Average	Sum, Minimum, Maximum
BWD_JITTER_STD_DVIAT	ACCUMULATION	FLOAT	T7679:Backward Jitter Standard Deviation of IPPM	B67109539.C67204731	Sum	
FWD_JITTER_STD_DVIAT	ACCUMULATION	FLOAT	T7678:Forward Jitter Standard Deviation of IPPM	B67109539.C67204131	Sum	
MAX_RTT_DELAY	INTENSITY	FLOAT	T7663:Maximum RTT Delay of IPPM	B67109539.C67192968	Average	Sum, Minimum, Maximum
PEAK_FWD_PKT_LOSS_RATE	ACCUMULATION	INT8	T7677:Peak Forward Packet Loss Rate of IPPM	B67109539.C67204128	Sum	
PEAK_RX_BIT_RATE_PEER_END	INTENSITY	FLOAT	T7674:Peak RX Bit Rate of Peer End of IPPM	B67109539.C67204123	Average	Sum, Minimum, Maximum
PEAK_RX_PKT_RATE_PEER_END	INTENSITY	FLOAT	T7675:Peak RX Packet Rate of Peer End of IPPM	B67109539.C67204124	Average	Sum, Minimum, Maximum

						m
PEAK_TX_BIT_RATE	INTENSITY	FLOAT	T7670:Peak TX Bit Rate of IPPM	B67109539.C67204119	Average	Sum, Minimum, Maximum
PEAK_TX_PACKET_RATE	INTENSITY	FLOAT	T7671:Peak TX Packet Rate of IPPM	B67109539.C67204120	Average	Sum, Minimum, Maximum

## 7.21 IPPATH\_Link Performance Indicators

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

- [IPPATH\\_Link.Huawei.GSM.Link\\_utilisation](#)

### 7.21.1 IPPATH\_Link.Huawei.GSM.Link\_utilisation

IP Path Link measurement.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ACTIVE_CONNECTION_TO_ADJACENT_NODE	INTENSITY	INT8	T6551:Number of Active Connections to an Adjacent Node	B67109467.C67204207	Average	Sum, Minimum, Maximum
BWD_CONG	ACCUMULATION	INT8	T6560:Number of Backward Congestions on an IP Path	B67109467.C67195601	Sum	
DUR_OF_BWD_CONG	ACCUMULATION	INT8	T6561:Duration of Backward Congestion on	B67109467.C67195602	Sum	

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			an IP PATH			
DUR_OF_FWD_CONG	ACCUMULATION	INT8	T6559:Duration of Forward Congestion on an IP Path	B67109467.C67195600	Sum	
FWD_CONG	ACCUMULATION	INT8	T6558:Number of Forward Congestions on an IP Path	B67109467.C67195599	Sum	
IP_PATH_PING_DELAY_VAR	ACCUMULATION	INT8	T6554:IP Path Ping Delay variation	B67109467.C67204391	Sum	
IP_PATH_PING_DELAY	ACCUMULATION	INT8	T6552:IP Path Ping Delay	B67109467.C67204390	Sum	
IP_PATH_PING_PKT_LOSS_RATE	ACCUMULATION	INT8	T6556:IP Path Ping Packet Loss Rate	B67109467.C67204392	Sum	
MAX_IP_PATH_PING_DELAY_VAR	INTENSITY	INT8	T6555:Maximum IP Path Ping Delay variation	B67109467.C67194639	Average	Sum, Minimum, Maximum
MAX_IP_PATH_PING_DELAY	INTENSITY	INT8	T6553:Maximum IP Path Ping Delay	B67109467.C67194636	Average	Sum, Minimum, Maximum
MAX_IP_PATH_PKT_LOSS_RATE	INTENSITY	INT8	T6557:Maximum IP Path Packet Loss Rate	B67109467.C67194642	Average	Sum, Minimum, Maximum
TOT_CONGESTION_DUR	ACCUMULATION	INT8	Total Duration of Congestion on an IP Path	B67109467.C67195600 + C67195602	Sum	
TOT_CONGESTION	ACCUMULATION	INT8	Total Number of Congestion on an IP Path	B67109467.C67195599 + C67195601	Sum	

## 7.22 LAPD Performance Indicators

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

- [LAPD.Huawei.GSM.Calls\\_discarded](#)
- [LAPD.Huawei.GSM.Discarded\\_paging\\_messages](#)
- [LAPD.Huawei.GSM.LAPD\\_link\\_at\\_the\\_BTS](#)
- [LAPD.Huawei.GSM.LAPD\\_link\\_utilisation](#)

### 7.22.1 LAPD.Huawei.GSM.Calls\_discarded

Random access discarded calls

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
LAPDLNK_DISC_RAND_ACC_REQ	ACCUMULATION	INTEGER	A533:Random Access Requests Discarded due to overload on LAPD	B1275071436.C1278088417	Sum	

### 7.22.2 LAPD.Huawei.GSM.Discarded\_paging\_messages

Discarded paging messages

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
LAPDLNK_DISC_CS_PAGS	ACCUMULATION	INTEGER	A531:CS Pagings Discarded due to overload on LAPD Link	B1275071219.C1277871418	Sum	
LAPDLNK_DISC_PS_PAGS	ACCUMULATION	INTEGER	A532:PS Pagings Discarded due to overload on LAPD Link	B1275071219.C1277871419	Sum	

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LAPDLNK_DISC_SMS_PAGS	ACCUMULATION	INTEGER	A530:SM Pagings Discarded due to overload on LAPD Link	B1275071219.C1277871417	Sum	
TOT_DISCARD_PAGING	ACCUMULATION	INTEGER	Total Pagings Discarded on LAPD Link	B1275071219.C1277871417 + C1277871418 + C1277871419	Sum	

### 7.22.3 LAPD.Huawei.GSM.LAPD\_link\_at\_the\_BTS

Counters of the LAPD link from the BTS

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
LAPD_DATA	ACCUMULATION	INT8	L5109:L3 Data Requests Received by BTS on LAPD Link	B1275069427.C1276079425	Sum	
LAPD_IOVER	ACCUMULATION	INT8	L5112:Queue Overflows of Messages Sent by BTS on LAPD Link	B1275069427.C1276079428	Sum	
LAPD_L1L2_IOVER	ACCUMULATION	INT8	L5117:L1 and L2 Overflows on LAPD Link of the BTS	B1275069427.C1276079433	Sum	
LAPD_NRERR	ACCUMULATION	INT8	L5108:NRERR Frames Received by the BTS on LAPD Link	B1275069427.C1276079424	Sum	
LAPD_RETX	ACCUMULATION	INT8	L5107:I Frames Resent by the BTS on LAPD Link	B1275069427.C1276079423	Sum	
LAPD_RX_CR	ACCUMULATION	INT8	L5116:Number	B1275069427.C127	Sum	

C_ERR	TION		of Times the BTS Receives CRC Errors on LAPD Link	6079432		
LAPD_RX_FR MPHY	ACCUMULA TION	INT8	L5118:Total Frames Received by the BTS Physical Layer on LAPD Link	B1275069427.C127 6079434	Sum	
LAPD_RX_I	ACCUMULA TION	INT8	L5111:I Frames Received by the BTS on LAPD Link	B1275069427.C127 6079427	Sum	
LAPD_RX_LO NGFRM_ERR	ACCUMULA TION	INT8	L5113:Erroneo us Long Frames Received by BTS Physical Layer on LAPD Link	B1275069427.C127 6079429	Sum	
LAPD_RX_LO SE_SERIAL	ACCUMULA TION	INT8	L5115:Discarde d Series Received by BTS Physical Layer on LAPD Link	B1275069427.C127 6079431	Sum	
LAPD_RX_OC T_ERR	ACCUMULA TION	INT8	L5114:Erroneo us Octet Received by BTS Physical Layer on LAPD Link	B1275069427.C127 6079430	Sum	
LAPD_RX_REJ	ACCUMULA TION	INT8	L5104:BTS- Received Rejects to the LAPD Setup Requests	B1275069427.C127 6079420	Sum	

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LAPD_RX_RNR	ACCUMULATION	INT8	L5106:RNR Frames Received by the BTS on LAPD Link	B1275069427.C1276079422	Sum	
LAPD_RX_SABME	ACCUMULATION	INT8	L5102:SABME Frames Received by the BTS on LAPD Link	B1275069427.C1276079418	Sum	
LAPD_TX_I	ACCUMULATION	INT8	L5110:I Frames Sent by the BTS on LAPD Link	B1275069427.C1276079426	Sum	
LAPD_TX_REJ	ACCUMULATION	INT8	L5103:BTS-Sent Rejects to the LAPD Setup Requests	B1275069427.C1276079419	Sum	
LAPD_TX_RNR	ACCUMULATION	INT8	L5105:RNR Frames Sent by the BTS on LAPD Link	B1275069427.C1276079421	Sum	
LAPD_TX_SABME	ACCUMULATION	INT8	L5101:SABME Frames Sent by the BTS on LAPD Link	B1275069427.C1276079417	Sum	
TOT_BTS_RX_FRAME	ACCUMULATION	INT8	Total Frames Received by BTS on LAPD Link	B1275069427.C1276079418 + C1276079422 + C1276079424 + C1276079427	Sum	
TOT_BTS_TX_FRAME	ACCUMULATION	INT8	Total Frames Sent by BTS on LAPD Link	B1275069427.C1276079417 + C1276079421 + C1276079426	Sum	

#### 7.22.4 LAPD.Huawei.GSM.LAPD\_link\_utilisation

LAPD link utilisation

KPI	Type	Data	Description	Derivation	Default	Other
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		Type			Aggregat or	Aggrega tors
Q921_DATA_RX	ACCUMULATION	INT8	L5009:I Frames Received on LAPD Link from Application Layer	B1275068427.C1275079425	Sum	
Q921_ERR_RX	ACCUMULATION	INT8	L5008:Incorrect I Frames Received on LAPD Link	B1275068427.C1275079424	Sum	
Q921_I_OVER	ACCUMULATION	INT8	L5012:I Frames Discarded by LAPD Link	B1275068427.C1275079428	Sum	
Q921_I_RX	ACCUMULATION	INT8	L5011:I Frames Received on LAPD Link	B1275068427.C1275079427	Sum	
Q921_I_TX	ACCUMULATION	INT8	L5010:I Frames Sent on LAPD Link	B1275068427.C1275079426	Sum	
Q921_REJ_RX	ACCUMULATION	INT8	L5004:REJ Frames Received on LAPD Link	B1275068427.C1275079420	Sum	
Q921_REJ_TX	ACCUMULATION	INT8	L5003:REJ Frames Sent on LAPD Link	B1275068427.C1275079419	Sum	
Q921_RESEND_TX	ACCUMULATION	INT8	L5007:I Frames Resent on LAPD Link	B1275068427.C1275079423	Sum	
Q921_RNR_RX	ACCUMULATION	INT8	L5006:RNR Frames Received on LAPD Link	B1275068427.C1275079422	Sum	

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Q921_RNR_TX	ACCUMULATION	INT8	L5005:RNR Frames Sent on LAPD Link	B1275068427.C127 5079421	Sum	
Q921_SABME_RX	ACCUMULATION	INT8	L5002:SABME Frames Received onLAPD Link	B1275068427.C127 5079418	Sum	
Q921_SABME_TX	ACCUMULATION	INT8	L5001:SABME Frames Sent on LAPD Link	B1275068427.C127 5079417	Sum	
Q921_UA_RX	ACCUMULATION	INT8	L5014:UA Frames Received on LAPD Link	B1275068427.C127 5079430	Sum	
Q921_UA_TX	ACCUMULATION	INT8	L5013:UA Frames Sent on LAPD Link	B1275068427.C127 5079429	Sum	
Q921_UI_RX	ACCUMULATION	INT8	L5015:UI Frames Received on LAPD Link	B1275068427.C127 5079431	Sum	
TOT_RX_FRAME	ACCUMULATION	INT8	Total frames received on LAPD Link	B1275068427.C127 5079418 + C1275079420 + C1275079422 + C1275079424 + C1275079427 + C1275079430 + C1275079431	Sum	
TOT_TX_FRAME	ACCUMULATION	INT8	Total frames sent on LAPD Link	B1275068427.C127 5079417 + C1275079419 + C1275079421 + C1275079426 + C1275079429	Sum	

## 7.23 Logic\_Port\_BSC Performance Indicators

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

- [Logic\\_Port\\_BSC.Huawei.GSM.Logical\\_port\\_queue](#)

- [Logic\\_Port\\_BSC.Huawei.GSM.Logical\\_port\\_utilisation](#)
- [Logic\\_Port\\_BSC.Huawei.GSM.LogicPort\\_measurement\\_per\\_BSC](#)

### 7.23.1 Logic\_Port\_BSC.Huawei.GSM.Logical\_port\_queue

Logic port queue measurement.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
BYTE_DISC_IN_TX	ACCUMULATION	INT8	T7534: Number of Bytes Discarded in Transmission over Logical Port Queue	B67109541.C67195368	Sum	
BYTE_TX	ACCUMULATION	INT8	T7532: Number of Bytes Transmitted over Logical Port Queue	B67109541.C67195366	Sum	
MAX_TX_RATE	INTENSITY	FLOAT	T7536: Maximum Transmit Rate of Logical Port Queue	B67109541.C67204686	Average	Sum, Minimum, Maximum
PKT_DISC_IN_TX	ACCUMULATION	INT8	T7533: Number of Packets Discarded in Transmission over Logical Port Queue	B67109541.C67195367	Sum	
PKT_TX	ACCUMULATION	INT8	T7531: Number of Packets Transmitted over Logical Port Queue	B67109541.C67195365	Sum	

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### 7.23.2 Logic\_Port\_BSC.Huawei.GSM.Logical\_port\_utilisation

Logic port measurement.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
AVG_TX_RATE	INTENSITY	FLOAT	T7507:Average Transmit Rate of Logical Port	B67109524.C6720 4685	Average	Sum, Minimum, Maximum
BWD_BW_ALL OC	ACCUMULATION	INT8	T7561:Backward Bandwidth Allocated on Logical Port	B67109524.C6720 4784	Sum	
BWD_CONG	ACCUMULATION	INT8	T7568:Number of Backward Congestions on Logical Port	B67109524.C6719 5962	Sum	
BYTE_DISC_IN_TX	ACCUMULATION	INT8	T7504:Number of Bytes Discarded in Transmission over a Logical Port	B67109524.C6719 5363	Sum	
BYTE_TX	ACCUMULATION	INT8	T7502:Number of Bytes Transmitted over Logical Port	B67109524.C6719 5361	Sum	
DUR_BWD_CONG	ACCUMULATION	INT8	T7569:Duration of Backward Congestions on Logical Port	B67109524.C6719 5963	Sum	
DUR_FWD_CONG	ACCUMULATION	INT8	T7567:Duration of Forward Congestions on Logical Port	B67109524.C6719 5961	Sum	
FWD_BW_ALL OC	ACCUMULATION	INT8	T7508:Forward Bandwidth Allocated on	B67109524.C6720 4783	Sum	

			Logical Port			
FWD_CONG	ACCUMULATION	INT8	T7566: Number of Forward Congestions on Logical Port	B67109524.C67195960	Sum	
MAX_BWD_BW_ALLOC	INTENSITY	FLOAT	T7565: Maximum Backward Bandwidth Allocated on Logical Port	B67109524.C67195959	Average	Sum, Minimum, Maximum
MAX_FWD_BW_ALLOC	INTENSITY	FLOAT	T7564: Maximum Forward Bandwidth Allocated on Logical Port	B67109524.C67195958	Average	Sum, Minimum, Maximum
MAX_TX_RATE	INTENSITY	FLOAT	T7506: Maximum Transmit Rate of Logical Port	B67109524.C67204684	Average	Sum, Minimum, Maximum
PKT_DISC_IN_TX	ACCUMULATION	INT8	T7503: Number of Packets Discarded in Transmission over Logical Port	B67109524.C67195362	Sum	
PKT_TX	ACCUMULATION	INT8	T7501: Number of Packets Transmitted over Logical Port	B67109524.C67195360	Sum	
TOT_CONGESTION_DUR	ACCUMULATION	INT8	Total Duration of congestion on Logical Port	B67109524.C67195961 + C67195963	Sum	
TOT_CONGESTION	ACCUMULATION	INT8	Total Number of congestion	B67109524.C67195960 + C67195962	Sum	

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			on Logical Port		
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### 7.23.3 Logic\_Port\_BSC.Huawei.GSM.LogicPort\_measurement\_per\_BSC

Logic port measurement per BSC

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
AVG_THRPUT_PKT_TX	INTENSITY	FLOAT	L01061:Average Throughput of Packets Sent on a Logical Port .Obsolete in V900R011.	B1275073317.C1279969423	Average	Sum, Minimum, Maximum
BYTE_DISC	ACCUMULATION	INT8	L01058:Number of Bytes Discarded on a Logical Port .Obsolete in V900R011.	B1275073317.C1279969420	Sum	
BYTE_TX	ACCUMULATION	INT8	L01056:Number of Bytes Sent on a Logical Port .Obsolete in V900R011.	B1275073317.C1279969418	Sum	
MAX_NUM_BYTE_TX	INTENSITY	FLOAT	L01059:Maximum Number of Bytes Sent on a Logical Port .Obsolete in V900R011.	B1275073317.C1279969421	Average	Sum, Minimum, Maximum
PEAK_THRPUT_PKT_TX	INTENSITY	FLOAT	L01060:Peak Throughput of Packets Sent on a Logical Port .Obsolete in V900R011.	B1275073317.C1279969422	Average	Sum, Minimum, Maximum
PKT_DISC	ACCUMULATION	INT8	L01057:Number of Packets Discarded on a Logical Port	B1275073317.C1279969419	Sum	

			.Obsolete in V900R011.			
PKT_TX	ACCUMULATION	INT8	L01055: Number of Packets Sent on a Logical Port .Obsolete in V900R011.	B1275073317.C1279969417	Sum	

## 7.24 M3UA\_Dest Performance Indicators

This section shows the key performance indicators and other counters for the M3UA\_Dest object, divided into the following sub-sections:

- [M3UA\\_Dest.Huawei.GSM.M3UA\\_destination\\_entity](#)
- [M3UA\\_Dest.Huawei.GSM.Utilisation](#)

### 7.24.1 M3UA\_Dest.Huawei.GSM.M3UA\_destination\_entity

KPIs related to the number of M3UA destination entity changes to unavailable state and the duration of M3UA destination entity in unavailable state.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
DUR_IN_UNAVL_STATE	ACCUMULATION	INT8	T6152: Duration of M3UA Destination Entity in Unavailable State	B67109484.C67194648	Sum	
TIMES_IN_UNAVL_STATE	ACCUMULATION	INT8	T6151: Number of Times that M3UA Destination Entity in Unavailable State	B67109484.C67194647	Sum	

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## 7.24.2 M3UA\_Dest.Huawei.GSM.Utilisation

M3UA destination utilisation

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
M3UA_DE_INACCESSIBLE_NUM	ACCUMULATION	INTEGER	L0011:M3UA Destination Inaccessible Times	B1275072117.C1278769417	Sum	
M3UA_DE_INACCESSIBLE_DURATION	ACCUMULATION	INTEGER	L0012:M3UA Destination Inaccessible Duration	B1275072117.C1278769418	Sum	

## 7.25 M3UA\_Link Performance Indicators

This section shows the key performance indicators and other counters for the M3UA\_Link object, divided into the following sub-sections:

- [M3UA\\_Link.Huawei.GSM.M3UA\\_link\\_usage](#)
- [M3UA\\_Link.Huawei.GSM.M3UA\\_link\\_utilisation](#)

### 7.25.1 M3UA\_Link.Huawei.GSM.M3UA\_link\_usage

KPIs related to signaling transmission on the M3UA link between two M3UA entities.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ASPM_MSG_RX	ACCUMULATION	INT8	T6167: Number of ASPM Messages Received on M3UA Link	B67109482.C67194657	Sum	
ASPM_MSG_TX	ACCUMULATION	INT8	T6166: Number of ASPM Messages Sent on M3UA Link	B67109482.C67194656	Sum	
DUR_OF_CONGESTION	ACCUMULATION	INT8	T6163: Duration of M3UA Link Congestion	B67109482.C67194653	Sum	

DUR_OF_FAIL	ACCUMULATION	INT8	T6162:Duration of M3UA Link Failure	B67109482.C67194652	Sum	
MSG_UNITS_RX	ACCUMULATION	INT8	T6165:Number of Messages Units Received on M3UA Link	B67109482.C67194655	Sum	
MSG_UNITS_TX	ACCUMULATION	INT8	T6164:Number of Message Units Sent on M3UA Link	B67109482.C67194654	Sum	
NUM_OF_FAIL	ACCUMULATION	INT8	T6161:Number of M3UA Link Failures	B67109482.C67194651	Sum	

### 7.25.2 M3UA\_Link.Huawei.GSM.M3UA\_link\_utilisation

Utilisation on the M3UA link

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
M3UA_LINK_CONGESTION_DURATION	ACCUMULATION	INTEGER	L0023:M3UA Link Congestion Duration	B1275072118.C1278770419	Sum	humlvbh
M3UA_LINK_INACCESSIBLE	ACCUMULATION	INTEGER	L0021:Number of M3UA Link Failures	B1275072118.C1278770417	Sum	humlvbh
M3UA_LINK_RECEIVED_PACKETS	ACCUMULATION	INTEGER	L0025:Number of Packets Received on M3UA Link	B1275072118.C1278770421	Sum	humlvbh
M3UA_LINK_SENT_PACKETS	ACCUMULATION	INTEGER	L0024:Number of Packets Sent on M3UA Link	B1275072118.C1278770420	Sum	humlvbh

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M3UA_LINK_TOTAL_PACKETS	ACCUMULATION	INTEGER	Total number of Packets Sent and Received on M3UA Link	B1275072118.C1278770421 + C1278770420	Sum	
M3UA_LINK_UNAVAILABLE_DURATION	ACCUMULATION	INTEGER	L0022:M3UA Link Failure Duration	B1275072118.C1278770418	Sum	humlvbh

## 7.26 M3UA\_LinkSet Performance Indicators

This section shows the key performance indicators and other counters for the M3UA\_LinkSet object, divided into the following sub-sections:

- [M3UA\\_LinkSet.Huawei.GSM.Link\\_set\\_utilisation](#)

### 7.26.1 M3UA\_LinkSet.Huawei.GSM.Link\_set\_utilisation

KPIs related to the configuration of the M3UA link set between the local and destination entities M3UA link set.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
DUR_OF_FAILURE	ACCUMULATION	INT8	T6157:Duration of M3UA Link Set Failure	B67109483.C67194650	Sum	
NUM_OF_FAILURE	ACCUMULATION	INT8	T6156:Number of M3UA Link Set Failures	B67109483.C67194649	Sum	

## 7.27 MLPPP\_BSC Performance Indicators

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

- [MLPPP\\_BSC.Huawei.GSM.MLPPP\\_group\\_utilisation](#)
- [MLPPP\\_BSC.Huawei.GSM.MLPPP\\_queue\\_utilisation](#)

### 7.27.1 MLPPP\_BSC.Huawei.GSM.MLPPP\_group\_utilisation

Traffic measurement on MLPPP group.

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KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
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BWD_BW_ALL OC	ACCUMULA TION	INT8	T7323:Backwar d Bandwidth Allocated of MLPPP Group	B67109490.C6720 4782	Sum	
BWD_CONG	ACCUMULA TION	INT8	T7330:Number of MLPPP Group Backward Congestions	B67109490.C6719 5952	Sum	
BYTE_PKT_IN CLU_PKT_HEA DER_RX	ACCUMULA TION	INT8	T7303:Number of Bytes of Packets (Including Packet Header) Received on an MLPPP Group	B67109490.C6719 4404	Sum	
BYTE_PKT_IN CLU_PKT_HEA DER_TX	ACCUMULA TION	INT8	T7302:Number of Bytes of Packets (Including Packet Header) Transmitted on an MLPPP Group	B67109490.C6719 4403	Sum	
DUR_BWD_CO NG	ACCUMULA TION	INT8	T7391:Duration of MLPPP Group Backward Congestions	B67109490.C6719 5953	Sum	
DUR_FAULTS	ACCUMULA TION	INT8	T7308:Duration of Faults in an MLPPP Group	B67109490.C6719 4409	Sum	
DUR_FWD_CO NG	ACCUMULA TION	INT8	T7329:Duration of MLPPP Group Forward Congestions	B67109490.C6719 5951	Sum	
ERR_PKT_RX	ACCUMULA TION	INT8	T7305:Number of Error Packets Received on an MLPPP Group	B67109490.C6719 4406	Sum	

FWD_BW_ALL OC	ACCUMULA TION	INT8	T7320:Forward Bandwidth Allocated of MLPPP Group	B67109490.C6720 4781	Sum	
FWD_CONG	ACCUMULA TION	INT8	T7328:Number of MLPPP Group Forward Congestions	B67109490.C6719 5950	Sum	
MAX_BWD_B W_ALLOC	INTENSITY	FLOA T	T7327:Maximu m Backward Bandwidth Allocated of MLPPP Group	B67109490.C6719 5949	Average	Sum, Minimu m, Maximu m
MAX_FWD_B W_ALLOC	INTENSITY	FLOA T	T7326:Maximu m Forward Bandwidth Allocated of MLPPP Group	B67109490.C6719 5948	Average	Sum, Minimu m, Maximu m
MAX_RX_RAT E	INTENSITY	FLOA T	T7316:Maximu m Receive Rate of an MLPPP Group	B67109490.C6719 4413	Average	Sum, Minimu m, Maximu m
MAX_TX_RAT E	INTENSITY	FLOA T	T7311:Maximu m Transmit Rate of an MLPPP Group	B67109490.C6719 4410	Average	Sum, Minimu m, Maximu m
MEAN_RX_RA TE	INTENSITY	FLOA T	T7318:Mean Receive Rate of an MLPPP Group	B67109490.C6719 4415	Average	Sum, Minimu m, Maximu m
MEAN_TX_RA TE	INTENSITY	FLOA T	T7313:Mean Transmit Rate of an MLPPP Group	B67109490.C6719 4412	Average	Sum, Minimu m, Maximu

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						m
MIN_RX_RATE	INTENSITY	FLOAT	T7317:Minimum Receive Rate of an MLPPP Group	B67109490.C67194414	Average	Sum, Minimum, Maximum
MIN_TX_RATE	INTENSITY	FLOAT	T7312:Minimum Transmit Rate of an MLPPP Group	B67109490.C67194411	Average	Sum, Minimum, Maximum
PKT_DISC_IN_TX	ACCUMULATION	INT8	T7304:Number of Packets Discarded in Transmission on an MLPPP Group	B67109490.C67194405	Sum	
PKT_RX	ACCUMULATION	INT8	T7301:Number of Packets Received on an MLPPP Group	B67109490.C67194402	Sum	
PKT_TX	ACCUMULATION	INT8	T7300:Number of Packets Transmitted on an MLPPP Group	B67109490.C67194401	Sum	
TOT_CONGESTION_DUR	ACCUMULATION	INT8	Total Duration of MLPPP Group Congestions	B67109490.C67195951 + C67195953	Sum	
TOT_CONGESTION	ACCUMULATION	INT8	Total Number of MLPPP Group Congestions	B67109490.C67195950 + C67195952	Sum	

### 7.27.2 MLPPP\_BSC.Huawei.GSM.MLPPP\_queue\_utilisation

MLPPP queue measurement.

KPI	Type	Data Type	Description	Derivation	Default Aggregat	Other Aggrega
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					or	tors
BYTE_DISC_TX	ACCUMULATION	INT8	T7334: Number of Bytes Discarded in Transmission on an MLPPP Queue	B67109542.C67195135	Sum	
BYTE_TX	ACCUMULATION	INT8	T7332: Number of Bytes Transmitted on an MLPPP Queue	B67109542.C67195133	Sum	
MAX_TX_RATE	INTENSITY	FLOAT	T7336: Maximum Transmit Rate of an MLPPP Queue	B67109542.C67204558	Average	Sum, Minimum, Maximum
MEAN_TX_RATE	INTENSITY	FLOAT	T7337: Mean Transmit Rate of an MLPPP Queue	B67109542.C67204559	Average	Sum, Minimum, Maximum
PKT_DISC_TX	ACCUMULATION	INT8	T7333: Number of Packets Discarded in Transmission on an MLPPP Queue	B67109542.C67195134	Sum	
PKT_TX	ACCUMULATION	INT8	T7331: Number of Packets Transmitted on an MLPPP Queue	B67109542.C67195132	Sum	

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## 7.28 MTP2Link Performance Indicators

This section shows the key performance indicators and other counters for the MTP2Link object, divided into the following sub-sections:

- [MTP2Link.Huawei.GSM.Link\\_utilisation](#)

### 7.28.1 MTP2Link.Huawei.GSM.Link\_utilisation

MTP2 Link measurement.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
RX_BW_USA GE	ACCUMULATION	FLOAT	RL9809:Receiving bandwidth usage of the MTP2 link	B1290793530.C128 2423988	Sum	
TX_BW_USA GE	ACCUMULATION	FLOAT	RL9808:Transmission bandwidth usage of the MTP2 link	B1290793530.C128 2423987	Sum	

## 7.29 MTP3\_DSP Performance Indicators

This section shows the key performance indicators and other counters for the MTP3\_DSP object, divided into the following sub-sections:

- [MTP3\\_DSP.Huawei.GSM.Signalling\\_point\\_utilisation](#)

### 7.29.1 MTP3\_DSP.Huawei.GSM.Signalling\_point\_utilisation

KPIs related to MTP3 destination signaling point.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
DUR_OF_FAIL	ACCUMULATION	INT8	T6102:Duration of MTP3 Destination Signaling point Failure	B67109550.C67196 164	Sum	
NUM_OF_FAIL	ACCUMULATION	INT8	T6101:Number	B67109550.C67196	Sum	

L	TION		of MTP3 Destination Signaling point Failures	163		
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### 7.30 MTP3\_Link Performance Indicators

This section shows the key performance indicators and other counters for the MTP3\_Link object, divided into the following sub-sections:

- [MTP3\\_Link.Huawei.GSM.Link\\_usage](#)
- [MTP3\\_Link.Huawei.GSM.Link\\_utilisation](#)

#### 7.30.1 MTP3\_Link.Huawei.GSM.Link\_usage

KPIs related to MTP3(Message Transfer Part) link.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
BYTES_OF_SIO_AND_SIF_RX	ACCUMULATION	INT8	T6124: Number of Bytes of SIO and SIF Received by MTP3 Link	B67109551.C67196178	Sum	
BYTES_OF_SIO_AND_SIF_TX	ACCUMULATION	INT8	T6123: Number of Bytes of SIO and SIF Sent on MTP3 Link	B67109551.C67196177	Sum	
CHANGEOVERS	ACCUMULATION	INT8	T6119: Number of MTP3 Link Changeovers	B67109551.C67196173	Sum	
CONGESTION	ACCUMULATION	INT8	T6122: Number of MTP3 Link Congestions	B67109551.C67196176	Sum	
DUR_CONG	ACCUMULATION	INT8	T6114: Duration of MTP3 Link Congestion	B67109551.C67196168	Sum	

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DUR_LOCAL_INHIBITION	ACCUMULATION	INT8	T6116:Duration of Local Inhibition on MTP3 Link	B67109551.C67196170	Sum	
DUR_REMOTE_INHIBITION	ACCUMULATION	INT8	T6118:Duration of Remote Inhibition on MTP3 Link	B67109551.C67196172	Sum	
DUR_REMOTE_PROCESSOR_FAULT	ACCUMULATION	INT8	T6130:Duration of MTP3 Link Remote Processor Fault	B67109551.C73403527	Sum	
MSG_DISC_DUE_TO_LNK_CONG	ACCUMULATION	INT8	T6126:Number of Messages Discarded on MTP3 Link Due to Link Congestion	B67109551.C67196179	Sum	
MSG_DISC_DUE_TO_ROUTE_FAIL	ACCUMULATION	INT8	T6128:Number of Messages Discarded on MTP3 Link Due to Route Fail	B67109551.C67196181	Sum	
NUM_LOCAL_INHIBITIONS	ACCUMULATION	INT8	T6115:Number of Local Inhibitions on MTP3 Link	B67109551.C67196169	Sum	
NUM_OF_FAIL	ACCUMULATION	INT8	T6112:Number of MTP3 Link Failures	B67109551.C67196166	Sum	
OUT_OF_SERVICE_DUR	ACCUMULATION	INT8	T6113:Out-of-Service Duration of MTP3 Link	B67109551.C67196167	Sum	
REMOTE_INHIBITIONS	ACCUMULATION	INT8	T6117:Number of Remote Inhibitions on MTP3 Link	B67109551.C67196171	Sum	
REMOTE_PROC	ACCUMULATION	INT8	T6125:Number	B67109551.C6718	Sum	

ESSOR_FAIL	TION		of MTP3 Link Remote Processor Failures	4091		
SERVICE_DUR	ACCUMULATION	INT8	T6111:Service Duration of MTP3 Link	B67109551.C67196165	Sum	
SIG_UNITS_RX	ACCUMULATION	INT8	T6121:Number of Signaling Units Received on MTP3 Link	B67109551.C67196175	Sum	
SIG_UNITS_TX	ACCUMULATION	INT8	T6120:Number of Signaling Units Sent on MTP3 Link	B67109551.C67196174	Sum	
TRANSFER_CONTROL_SIG_RX	ACCUMULATION	INT8	T6129:Number of Transfer-Controlled Signals Received on MTP3 Link	B67109551.C67196182	Sum	
TRANSFER_PROHIBITED_SIG_RX	ACCUMULATION	INT8	T6127:Number of Transfer-Prohibited Signals Received on MTP3 Link	B67109551.C67196180	Sum	

### 7.30.2 MTP3\_Link.Huawei.GSM.Link\_utilisation

Link utilisation KPIs

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
MTP3_LNK_CIRCUITS	ACCUMULATION	INT8	L6020:64 kbit/s Timeslots	B1275068420.C1275072436	Sum	

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			Seized by Signaling Link			
MTP3_LNK_C ONG_DUR	ACCUMULA TION	INT8	L6007:Duration of MTP3 Link Congestion	B1275068420.C12 75072423	Sum	
MTP3_LNK_C ONGS	ACCUMULA TION	INT8	L6015:MTP3 Link Congestions	B1275068420.C12 75072431	Sum	
MTP3_LNK_F AIL_DUR	ACCUMULA TION	INT8	L6003:Duration of MTP3 Link Fault	B1275068420.C12 75072419	Sum	
MTP3_LNK_F AILS	ACCUMULA TION	INT8	L6008:MTP3 Link Failures for All Reasons	B1275068420.C12 75072424	Sum	
MTP3_LNK_IN SERVICE_DU R	ACCUMULA TION	INT8	TL6001:In Service Duration of MTP3 Link	B1275068420.C12 75072417	Sum	
MTP3_LNK_L OCAL_COS	ACCUMULA TION	INT8	L6012:MTP3 Link Local Switchovers	B1275068420.C12 75072428	Sum	
MTP3_LNK_L OCAL_INH_D UR	ACCUMULA TION	INT8	L6004:Duration of MTP3 Link Local Inhibition	B1275068420.C12 75072420	Sum	
MTP3_LNK_L OCAL_INHS	ACCUMULA TION	INT8	L6009:MTP3 Link Local Inhibitions	B1275068420.C12 75072425	Sum	
MTP3_LNK_M SU_DISCARD	ACCUMULA TION	INT8	L6016:Disarde d MSUs during Link Congestion	B1275068420.C12 75072432	Sum	
MTP3_LNK_M SU_RX	ACCUMULA TION	INT8	L6014:MSUs Received on MTP3 Link	B1275068420.C12 75072430	Sum	
MTP3_LNK_M SU_TX	ACCUMULA TION	INT8	L6013:MSUs Sent on MTP3 Link	B1275068420.C12 75072429	Sum	

MTP3_LNK_O CTETS_MTP2 HEAD	ACCUMULA TION	INT8	L6023:Bytes of MTP2 Message Head in MSU Messages on MTP3 Link	B1275068420.C12 75072439	Sum	
MTP3_LNK_O CTETS_RX_R ATIO	INTENSITY	FLOA T	RL6022:Ratio of Receive Bandwidth to Total Bandwidth	B1275068420.C12 75072438	Average	Average, Maximu m, Minimu m, Sum
MTP3_LNK_O CTETS_RX	ACCUMULA TION	INT8	L6019:Octets in SIFs and SIOs Received on MTP3 Link	B1275068420.C12 75072435	Sum	
MTP3_LNK_O CTETS_TX_R ATIO	INTENSITY	FLOA T	RL6021:Ratio of Transmit Bandwidth to Total Bandwidth	B1275068420.C12 75072437	Average	Average, Maximu m, Minimu m, Sum
MTP3_LNK_O CTETS_TX	ACCUMULA TION	INT8	L6018:Octets in SIFs or SIOs Sent on MTP3 Link	B1275068420.C12 75072434	Sum	
MTP3_LNK_R EMOTE_INH_ DUR	ACCUMULA TION	INT8	L6005:Duration of MTP3 Link Remote Inhibition	B1275068420.C12 75072421	Sum	
MTP3_LNK_R EMOTE_INHS	ACCUMULA TION	INT8	L6010:MTP3 Link Remote Inhibitions	B1275068420.C12 75072426	Sum	
MTP3_LNK_R PO_DUR	ACCUMULA TION	INT8	L6006:Duration of MTP3 Link Remote Processor Fault	B1275068420.C12 75072422	Sum	
MTP3_LNK_R POS	ACCUMULA TION	INT8	L6011:MTP3 Link Remote	B1275068420.C12 75072427	Sum	

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			Processor Failures			
MTP3_LNK_T FP_RX	ACCUMULATION	INT8	L6017:Transfer Inhibition Messages Received on MTP3 Link	B1275068420.C12 75072433	Sum	
MTP3_LNK_U NAVAIL_DUR	ACCUMULATION	INT8	L6002:Out-of-Service Duration of MTP3 Link	B1275068420.C12 75072418	Sum	

### 7.31 MTP3\_LinkSet Performance Indicators

This section shows the key performance indicators and other counters for the MTP3\_LinkSet object, divided into the following sub-sections:

- [MTP3\\_LinkSet.Huawei.GSM.Link\\_set\\_utilisation](#)

#### 7.31.1 MTP3\_LinkSet.Huawei.GSM.Link\_set\_utilisation

Measurement related to MTP3(Message Transfer Part) link set.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
DUR_OF_FAILURE	ACCUMULATION	INT8	T6107:Duration of MTP3 Link Set Failure	B67109552.C67196 184	Sum	
NUM_OF_FAILURE	ACCUMULATION	INT8	T6106:Number of MTP3 Link Set Failures	B67109552.C67196 183	Sum	

### 7.32 Neighbour Performance Indicators

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

- [Neighbour.Huawei.GSM.GSM\\_to\\_GSM\\_cell\\_incom\\_handover](#)
- [Neighbour.Huawei.GSM.GSM\\_to\\_GSM\\_cell\\_outgo\\_handover](#)
- [Neighbour.Huawei.GSM.Neighbor\\_cell\\_level](#)

### 7.32.1 Neighbour.Huawei.GSM.GSM\_to\_GSM\_cell\_incom\_handover

Intra-GSM cell incoming handover measurements

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
NCELL_INCELL_HO_FAIL_CONG	ACCUMULATION	INT8	H382A:Failed Cell Incoming Handovers (Congestion)	B1275071432.C1278084418	Sum	huctvbh
NCELL_INCELL_HO_FAIL_OTHER	ACCUMULATION	INT8	H382M:Failed Cell Incoming Handovers (Other Causes)	B1275071432.C1278084419	Sum	huctvbh
NCELL_INCELL_HO_FAIL	ACCUMULATION	INT8	H382:Failed Cell Incoming Handovers	B1275071432.C1278084421	Sum	huctvbh
NCELL_INCELL_HO_REQ	ACCUMULATION	INT8	H380:Incoming Inter-Cell Handover Requests	B1275071432.C1278084417	Sum	huctvbh
NCELL_INCELL_HO_SUCC_RATE	INTENSITY	FLOAT	RH383:Success Rate of Cell Incoming Handovers	B1275071432.C1278084420	Average	Average, huctvbh, Maximum, Minimum, Sum
NCELL_INCELL_HO_SUCC	ACCUMULATION	INT8	H383:Successful Cell Incoming Handovers	B1275071432.C1278084422	Sum	huctvbh

### 7.32.2 Neighbour.Huawei.GSM.GSM\_to\_GSM\_cell\_outgo\_handover

Intra-GSM cell outgoing handovers

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
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CELL_OG_HO_FAIL_RECONN_FAIL	ACCUMULATION	INT8	H375B:Cell Outgoing Handover Fail Reconn Fail	B1275071433.C1278085478	Sum	huctvbh
CELL_OG_HO_FAIL_RECONN_SUCC	ACCUMULATION	INT8	H375A:Cell Outgoing Handover Fail Reconn Success	B1275071433.C1278085477	Sum	huctvbh
Cell_out_HO_cmds_EDGE_cov	ACCUMULATION	INTEGER	H371K:Cell Outgoing Handover Commands (EDGE cov)	B1275071433.C1278085427	Sum	huctvbh
FAIL_CELL_OG_HO_DIRECT_RETRY	ACCUMULATION	INT8	H372P:Failed Cell Outgoing Handovers (Direct Retry)	B1275071433.C1278085452	Sum	huctvbh
Fail_Cell_out_HOs_EDGE_cov	ACCUMULATION	INTEGER	H372K:Failed Cell Outgoing Handovers (EDGE cov)	B1275071433.C1278085439	Sum	huctvbh
NCELL_OCELL_CMD_RAPID_LEV_DROP	ACCUMULATION	INT8	H371H:Cell Outgoing Handover Commands (Rapid Level Drop)	B1275071433.C1278085424	Sum	huctvbh
NCELL_OCELL_FAIL_RAPID_LEV_DROP	ACCUMULATION	INT8	H372H:Failed Cell Outgoing Handovers (Rapid Level Drop)	B1275071433.C1278085436	Sum	huctvbh
NCELL_OUTCELL_CMD_BETTER_CELL	ACCUMULATION	INT8	H371F:Cell Outgoing Handover Commands (Better Cell)	B1275071433.C1278085422	Sum	huctvbh
NCELL_OUTCELL_CMD_DL_QLTY	ACCUMULATION	INT8	H371B:Cell Outgoing Handover	B1275071433.C1278085418	Sum	huctvbh

			Commands (Downlink Quality)			
NCELL_OUTCELL_CMD_DL_RXL	ACCUMULATION	INT8	H371D:Cell Outgoing Handover Commands (Downlink Strength)	B1275071433.C12 78085420	Sum	huctvbh
NCELL_OUTCELL_CMD_LOAD	ACCUMULATION	INT8	H371G:Cell Outgoing Handover Commands (Load)	B1275071433.C12 78085423	Sum	huctvbh
NCELL_OUTCELL_CMD_MSC_INTERV	ACCUMULATION	INT8	H371I:Cell Outgoing Handover Commands (MSC Intervention)	B1275071433.C12 78085425	Sum	huctvbh
NCELL_OUTCELL_CMD_OM_INTERV	ACCUMULATION	INT8	H371J:Cell Outgoing Handover Commands (OM Intervention)	B1275071433.C12 78085426	Sum	huctvbh
NCELL_OUTCELL_CMD_OTHER	ACCUMULATION	INT8	H371L:Cell Outgoing Handover Commands (Other Causes)	B1275071433.C12 78085428	Sum	huctvbh
NCELL_OUTCELL_CMD_TA	ACCUMULATION	INT8	H371E:Cell Outgoing Handover Commands (Timing Advance)	B1275071433.C12 78085421	Sum	huctvbh

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NCELL_OUTCELL_CMD_UL_QLTY	ACCUMULATION	INT8	H371A:Cell Outgoing Handover Commands (Uplink Quality)	B1275071433.C1278085417	Sum	huctvbh
NCELL_OUTCELL_CMD_UL_RXL	ACCUMULATION	INT8	H371C:Cell Outgoing Handover Commands (Uplink Strength)	B1275071433.C1278085419	Sum	huctvbh
NCELL_OUTCELL_FAIL_BETTER_CELL	ACCUMULATION	INT8	H372F:Failed Cell Outgoing Handovers (Better Cell)	B1275071433.C1278085434	Sum	huctvbh
NCELL_OUTCELL_FAIL_DL_QLTY	ACCUMULATION	INT8	H372B:Failed Cell Outgoing Handovers (Downlink Quality)	B1275071433.C1278085430	Sum	huctvbh
NCELL_OUTCELL_FAIL_DL_RXL	ACCUMULATION	INT8	H372D:Failed Cell Outgoing Handovers (Downlink Strength)	B1275071433.C1278085432	Sum	huctvbh
NCELL_OUTCELL_FAIL_LOAD	ACCUMULATION	INT8	H372G:Failed Cell Outgoing Handovers (Load)	B1275071433.C1278085435	Sum	huctvbh
NCELL_OUTCELL_FAIL_MSC_INTERV	ACCUMULATION	INT8	H372I:Failed Cell Outgoing Handovers (MSC Intervention)	B1275071433.C1278085437	Sum	huctvbh
NCELL_OUTCELL_FAIL_OM_INTERV	ACCUMULATION	INT8	H372J:Failed Cell Outgoing Handovers (OM Intervention)	B1275071433.C1278085438	Sum	huctvbh
NCELL_OUTCELL_FAIL_OM_INTERV	ACCUMULATION	INT8	H372L:Failed	B1275071433.C12	Sum	huctvbh

CELL_FAIL_OTHER	TION		Cell Outgoing Handovers (Other Causes)	78085440		
NCELL_OUTCELL_FAIL_TAIL	ACCUMULATION	INT8	H372E:Failed Cell Outgoing Handovers (Timing Advance)	B1275071433.C12 78085433	Sum	huctvbh
NCELL_OUTCELL_FAIL_UL_QLTY	ACCUMULATION	INT8	H372A:Failed Cell Outgoing Handovers (Uplink Quality)	B1275071433.C12 78085429	Sum	huctvbh
NCELL_OUTCELL_FAIL_UL_RXL	ACCUMULATION	INT8	H372C:Failed Cell Outgoing Handovers (Uplink Strength)	B1275071433.C12 78085431	Sum	huctvbh
NCELL_OUTCELL_HO_CMD	ACCUMULATION	INT8	H371:Outgoing Inter-Cell Handover Commands	B1275071433.C12 78085442	Sum	huctvbh
NCELL_OUTCELL_HO_FAIL	ACCUMULATION	INT8	H372:Failed Inter-Cell Outgoing Handovers	B1275071433.C12 78085443	Sum	huctvbh
NCELL_OUTCELL_HO_REQ	ACCUMULATION	INT8	H370c:Outgoing Inter-Cell Handover Requests	B1275071433.C12 78085451	Sum	huctvbh
NCELL_OUTCELL_HO_SUCCESS_RATE	INTENSITY	FLOAT	RH373:Success Rate of Cell Outgoing Handovers	B1275071433.C12 78085441	Average	Average, huctvbh, Maximum, Minimum, Sum

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NCELL_OUTCELL_HO_SUC C	ACCUMULATION	INT8	H373:Successful Cell Outgoing Handovers	B1275071433.C1278085444	Sum	huctvbh
O_C_HO_cmd_olaid_olaid_sC_HO_enh_Db_nw	ACCUMULATION	INTEGER	H371N:Number of Outgoing Cell Handover Commands (Overlaid to Underlaid scell Handover in enh Dualband nw)	B1275071433.C1278085446	Sum	huctvbh
O_C_HO_cmd_ulaid_olaid_sC_HO_enh_Db_nw	ACCUMULATION	INTEGER	H371M:Number of Outgoing Cell Handover Commands (Underlaid to Overlaid scell Handover in enh Dualband nw)	B1275071433.C1278085445	Sum	huctvbh
O_C_HOcm_MS_HO_olaid_sC_cov_enhDb_nw	ACCUMULATION	INTEGER	H371O:Number of Outgoing Cell Handover Commands (MS Handover in the Overlaid scell cov by the enh Dualband nw)	B1275071433.C1278085447	Sum	huctvbh
O_C_HOfail_MS_HO_olaid_sC_cov_enhDb_nw	ACCUMULATION	INTEGER	H372O:Number of Outgoing Cell Handover Failures (MS Handover in the Overlaid scell cov by the enh Dualband nw)	B1275071433.C1278085450	Sum	huctvbh
O_C_HOfail_olaid_olaid_sC_HO_enhDb_nw	ACCUMULATION	INTEGER	H372N:Number of Outgoing Cell Handover	B1275071433.C1278085449	Sum	huctvbh

			Failures (Overlaid to Underlaid scell Handover in enh Dualband nw)			
O_C_HOfail_ul aid_olaid_sC_H O_enhDb_nw	ACCUMULA TION	INTEG ER	H372M:Numbe r of Outgoing Cell Handover Failures (Underlaid to Overlaid scell Handover in enh Dualband nw)	B1275071433.C12 78085448	Sum	huctvbh
OG_INTERC_ HO_RQ_BETT ER_CELL	ACCUMULA TION	INT8	H374I:Outgoin g Inter-Cell Handover Requests (Better Cell)	B1275071433.C12 78085461	Sum	huctvbh
OG_INTERC_ HO_RQ_DIRE CT_RETRY	ACCUMULA TION	INT8	H374K:Outgoi ng Inter-Cell Handover Requests (Direct Retry)	B1275071433.C12 78085463	Sum	huctvbh
OG_INTERC_ HO_RQ_DL_Q UALITY	ACCUMULA TION	INT8	H374B:Outgoi ng Inter-Cell Handover Requests (Downlink Quality)	B1275071433.C12 78085454	Sum	huctvbh
OG_INTERC_ HO_RQ_DL_S TRENGTH	ACCUMULA TION	INT8	H374D:Outgoi ng Inter-Cell Handover Requests (Downlink Strength)	B1275071433.C12 78085456	Sum	huctvbh
OG_INTERC_	ACCUMULA	INT8	H374F:Outgoin	B1275071433.C12	Sum	huctvbh

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HO_RQ_LOAD	TION		g Inter-Cell Handover Requests (Load)	78085458		
OG_INTERC_HO_RQ_MSC_ITVN	ACCUMULATION	INT8	H374G:Outgoing Inter-Cell Handover Requests (MSC Intervention)	B1275071433.C1278085459	Sum	huctvbh
OG_INTERC_HO_RQ_OM_ITVN	ACCUMULATION	INT8	H374H:Outgoing Inter-Cell Handover Requests (OM Intervention)	B1275071433.C1278085460	Sum	huctvbh
OG_INTERC_HO_RQ_OTHERS	ACCUMULATION	INT8	H374L:Outgoing Inter-Cell Handover Requests (Other Causes)	B1275071433.C1278085464	Sum	huctvbh
OG_INTERC_HO_RQ_RAPID_LEVEL_DROP	ACCUMULATION	INT8	H374J:Outgoing Inter-Cell Handover Requests (Rapid Level Drop)	B1275071433.C1278085462	Sum	huctvbh
OG_INTERC_HO_RQ_TIMING_ADV	ACCUMULATION	INT8	H374E:Outgoing Inter-Cell Handover Requests (Timing Advance)	B1275071433.C1278085457	Sum	huctvbh
OG_INTERC_HO_RQ_UL_QUALITY	ACCUMULATION	INT8	H374A:Outgoing Inter-Cell Handover Requests (Uplink Quality)	B1275071433.C1278085453	Sum	huctvbh
OG_INTERC_HO_RQ_UL_STRENGTH	ACCUMULATION	INT8	H374C:Outgoing Inter-Cell Handover Requests	B1275071433.C1278085455	Sum	huctvbh

			(Uplink Strength)			
SUCC_CELL_OG_HO_BETTER_CELL	ACCUMULATION	INT8	H373I:Successful Cell Outgoing Handovers (Better Cell)	B1275071433.C1278085473	Sum	huctvbh
SUCC_CELL_OG_HO_DIRECT_RETRY	ACCUMULATION	INT8	H373K:Successful Cell Outgoing Handovers (Direct Retry)	B1275071433.C1278085475	Sum	huctvbh
SUCC_CELL_OG_HO_DL_QUALITY	ACCUMULATION	INT8	H373B:Successful Cell Outgoing Handovers (Downlink Quality)	B1275071433.C1278085466	Sum	huctvbh
SUCC_CELL_OG_HO_DL_STRENGTH	ACCUMULATION	INT8	H373D:Successful Cell Outgoing Handovers (Downlink Strength)	B1275071433.C1278085468	Sum	huctvbh
SUCC_CELL_OG_HO_LOAD	ACCUMULATION	INT8	H373F:Successful Cell Outgoing Handovers (Load)	B1275071433.C1278085470	Sum	huctvbh
SUCC_CELL_OG_HO_MSC_ITVN	ACCUMULATION	INT8	H373G:Successful Cell Outgoing Handovers (MSC Intervention)	B1275071433.C1278085471	Sum	huctvbh
SUCC_CELL_OG_HO_OMI	ACCUMULATION	INT8	H373H:Successful Cell	B1275071433.C1278085472	Sum	huctvbh

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TVN			Outgoing Handovers (OM Intervention)			
SUCC_CELL_OG_HO_OTHERS	ACCUMULATION	INT8	H373L:Successful Cell Outgoing Handovers (Other Causes)	B1275071433.C1278085476	Sum	huctvbh
SUCC_CELL_OG_HO_RAPID_LEVEL_DROP	ACCUMULATION	INT8	H373J:Successful Cell Outgoing Handovers (Rapid Level Drop)	B1275071433.C1278085474	Sum	huctvbh
SUCC_CELL_OG_HO_TIMING_ADV	ACCUMULATION	INT8	H373E:Successful Cell Outgoing Handovers (Timing Advance)	B1275071433.C1278085469	Sum	huctvbh
SUCC_CELL_OG_HO_UL_QUALITY	ACCUMULATION	INT8	H373A:Successful Cell Outgoing Handovers (Uplink Quality)	B1275071433.C1278085465	Sum	huctvbh
SUCC_CELL_OG_HO_UL_STRENGTH	ACCUMULATION	INT8	H373C:Successful Cell Outgoing Handovers (Uplink Strength)	B1275071433.C1278085467	Sum	huctvbh

### 7.32.3 Neighbour.Huawei.GSM.Neighbor\_cell\_level

Signal strength quality of neighbour cells

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
MRS_COMPT	ACCUMULATION	INT8	S386:Number	B1275071620.C12	Sum	huctvbh

T_CELL_RX_LVL_RANK0	TION		of MRs on Competitive Cell (Receive Level Rank 0)	78272445		
MRS_COMPT_T_CELL_RX_LVL_RANK1	ACCUMULATION	INT8	S387: Number of MRs on Competitive Cell (Receive Level Rank 1)	B1275071620.C12 78272446	Sum	huctvbh
MRS_COMPT_T_CELL_RX_LVL_RANK2	ACCUMULATION	INT8	S388: Number of MRs on Competitive Cell (Receive Level Rank 2)	B1275071620.C12 78272447	Sum	huctvbh
MRS_COMPT_T_CELL_RX_LVL_RANK3	ACCUMULATION	INT8	S389: Number of MRs on Competitive Cell (Receive Level Rank 3)	B1275071620.C12 78272448	Sum	huctvbh
MRS_COMPT_T_CELL_RX_LVL_RANK4	ACCUMULATION	INT8	S390: Number of MRs on Competitive Cell (Receive Level Rank 4)	B1275071620.C12 78272449	Sum	huctvbh
MRS_COMPT_T_CELL_RX_LVL_RANK5	ACCUMULATION	INT8	S391: Number of MRs on Competitive Cell (Receive Level Rank 5)	B1275071620.C12 78272450	Sum	huctvbh
MRS_COMPT_T_CELL_RX_LVL_RANK6	ACCUMULATION	INT8	S392: Number of MRs on Competitive Cell (Receive Level Rank 6)	B1275071620.C12 78272451	Sum	huctvbh
MRS_COMPT_T_CELL_RX_LVL_RANK7	ACCUMULATION	INT8	S393: Number of MRs on Competitive	B1275071620.C12 78272452	Sum	huctvbh

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			Cell (Receive Level Rank 7)			
MRS_SSDIF_LESS_INTF_LVL_THRES0	ACCUMULATION	INT8	S394: Number of MRs in Which the Signal Strength Difference Between the Serving Cell and the Neighbor Cell is Smaller Than the Neighbor Cell Interference Level Threshold 0	B1275071620.C1278272453	Sum	huctvbh
NCELL_LEV_AVR	INTENSITY	FLOAT	AS360: Mean Strength of Signals in Neighbor Cells	B1275071620.C1278272419	Average	Average, huctvbh, Maximum, Minimum, Sum
NCELL_LEV_GT_ABS_THRES_MR_NUM	ACCUMULATION	INT8	S372: Number of Measurement Reports that Neighbor Signal Strength Exceeds the Absolute Level Threshold	B1275071620.C1278272431	Sum	huctvbh
NCELL_LEVEL	INTENSITY	INT8	S360: Strength of Signals in Neighbor Cells	B1275071620.C1278272417	Average	Average, huctvbh, Maximum, Minimum, Sum
NCELL_MR_NUM	ACCUMULATION	INT8	S361: MRs of Neighbor Cells	B1275071620.C1278272418	Sum	huctvbh
NCELL_SLEV_GT_RTHRES	ACCUMULATION	INT8	S371: Number of	B1275071620.C1278272430	Sum	huctvbh

_MR_NUM			Measurement Reports that the Signal Strength Difference Between Neighbor Cells and Service Cells Exceeds the Relative Level Threshold			
NCELL_SORT_FIFTH_IN_MR_LEVEL	INTENSITY	INTEGER	S384:Signal Strength of the neighbor cell ranking fifth in the measurement report	B1275071620.C1278272443	Average	Average, huctvbh, Maximum, Minimum, Sum
NCELL_SORT_FIFTH_IN_MR_TIMES	ACCUMULATION	INTEGER	S378:Times of the neighbor cell ranking fifth in the measurement report	B1275071620.C1278272437	Sum	huctvbh
NCELL_SORT_FIRST_IN_MR_LEVEL	INTENSITY	INTEGER	S380:Signal Strength of the neighbor cell ranking first in the measurement report	B1275071620.C1278272439	Average	Average, huctvbh, Maximum, Minimum, Sum
NCELL_SORT_FIRST_IN_MR_TIMES	ACCUMULATION	INTEGER	S374:Times of the neighbor cell ranking first in the measurement report	B1275071620.C1278272433	Sum	huctvbh
NCELL_SORT	INTENSITY	INTEG	S383:Signal	B1275071620.C12	Average	Average,

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_FOURTH_IN_MR_LEVEL		ER	Strength of the neighbor cell ranking fourth in the measurement report	78272442		huctvbh, Maximum, Minimum, Sum
NCELL_SORT_FOURTH_IN_MR_TIMES	ACCUMULATION	INTEGER	S377:Times of the neighbor cell ranking fourth in the measurement report	B1275071620.C1278272436	Sum	huctvbh
NCELL_SORT_SECOND_IN_MR_LEVEL	INTENSITY	INTEGER	S381:Signal Strength of the neighbor cell ranking second in the measurement report	B1275071620.C1278272440	Average	Average, huctvbh, Maximum, Minimum, Sum
NCELL_SORT_SECOND_IN_MR_TIMES	ACCUMULATION	INTEGER	S375:Times of the neighbor cell ranking second in the measurement report	B1275071620.C1278272434	Sum	huctvbh
NCELL_SORT_SIXTH_IN_MR_LEVEL	INTENSITY	INTEGER	S385:Signal Strength of the neighbor cell ranking sixth in the measurement report	B1275071620.C1278272444	Average	Average, huctvbh, Maximum, Minimum, Sum
NCELL_SORT_SIXTH_IN_MR_TIMES	ACCUMULATION	INTEGER	S379:Times of the neighbor cell ranking sixth in the measurement report	B1275071620.C1278272438	Sum	huctvbh
NCELL_SORT_THIRD_IN_MR_LEVEL	INTENSITY	INTEGER	S382:Signal Strength of the neighbor cell ranking third in	B1275071620.C1278272441	Average	Average, huctvbh, Maximum,

			the measurement report			Minimum, Sum
NCELL_SORT_THIRD_IN_MR_TIMES	ACCUMULATION	INTEGER	S376:Times of the neighbor cell ranking third in the measurement report	B1275071620.C1278272435	Sum	huctvbh
SCELL_LEV	INTENSITY	INT8	S362:Strength of Signals in serving Cells	B1275071620.C1278272420	Average	Average, huctvbh, Maximum, Minimum, Sum
SNCCELL_DIFF_LEV_AVR	INTENSITY	FLOAT	AS362:Mean Signal Strength Difference Between Serving Cell and Neighbor Cell	B1275071620.C1278272429	Average	Average, huctvbh, Maximum, Minimum, Sum
SNCCELL_LEV_GT_THRES1_MR_NUM	ACCUMULATION	INT8	S364:Number of MRs in Which the Signal Strength Difference Between the Serving Cell and the Neighbor Cell is Greater Than the Neighbor Cell Interference Level Threshold 1	B1275071620.C1278272422	Sum	huctvbh
SNCCELL_LEV	ACCUMULATION	INT8	S365:Number	B1275071620.C12	Sum	huctvbh

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<p>_GT_THRES2 _MR_NUM</p>	<p>TION</p>		<p>of MRs in Which the Signal Strength Difference Between the Serving Cell and the Neighbor Cell is Greater Than the Neighbor Cell Interference Level Threshold 2</p>	<p>78272423</p>		
<p>SNCCELL_LEV _GT_THRES3 _MR_NUM</p>	<p>ACCUMULATION</p>	<p>INT8</p>	<p>S366: Number of MRs in Which the Signal Strength Difference Between the Serving Cell and the Neighbor Cell is Greater Than the Neighbor Cell Interference Level Threshold 3</p>	<p>B1275071620.C12 78272424</p>	<p>Sum</p>	<p>huctvbh</p>
<p>SNCCELL_LEV _GT_THRES4 _MR_NUM</p>	<p>ACCUMULATION</p>	<p>INT8</p>	<p>S367: Number of MRs in Which the Signal Strength Difference Between the Serving Cell and the Neighbor Cell is Greater Than the Neighbor Cell Interference Level Threshold 4</p>	<p>B1275071620.C12 78272425</p>	<p>Sum</p>	<p>huctvbh</p>

SNCELL_LEV _GT_THRES5 _MR_NUM	ACCUMULA TION	INT8	S368: Number of MRs in Which the Signal Strength Difference Between the Serving Cell and the Neighbor Cell is Greater Than the Neighbor Cell Interference Level Threshold 5	B1275071620.C12 78272426	Sum	huctvbh
SNCELL_LEV _GT_THRES6 _MR_NUM	ACCUMULA TION	INT8	S369: Number of MRs in Which the Signal Strength Difference Between the Serving Cell and the Neighbor Cell is Greater Than the Neighbor Cell Interference Level Threshold 6	B1275071620.C12 78272427	Sum	huctvbh
SNCELL_LEV _GT_THRES7 _MR_NUM	ACCUMULA TION	INT8	S370: Number of MRs in Which the Signal Strength Difference Between the Serving Cell and the Neighbor Cell is Greater Than	B1275071620.C12 78272428	Sum	huctvbh

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			the Neighbor Cell Interference Level Threshold 7			
SNCELL_LEV_LESS_THRE S1_MR_NUM	ACCUMULATION	INT8	S363: Number of MRs in Which the Signal Strength Difference Between the Serving Cell and the Neighbor Cell is Smaller Than the Neighbor Cell Interference Level Threshold 1	B1275071620.C12 78272421	Sum	huctvbh
TOT_COMPETE_CELL_MR	ACCUMULATION	INT8	Total Number of MRs of Competitive Cell	B1275071620.C12 78272445 + C1278272446 + C1278272447 + C1278272448 + C1278272449 + C1278272450 + C1278272451 + C1278272452	Sum	huctvbh

### 7.33 NonChannel\_OpticalPort Performance Indicators

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

- [NonChannel\\_OpticalPort.Huawei.GSM.Maximum\\_flux\\_of\\_UOI\\_board](#)
- [NonChannel\\_OpticalPort.Huawei.GSM.Optical\\_Port\\_Measurement](#)

#### 7.33.1 NonChannel\_OpticalPort.Huawei.GSM.Maximum\_flux\_of\_UOI\_board

Maximum flux of UOI board

KPI	Type	Data Type	Description	Derivation	Default Aggregat	Other Aggrega
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					or	tors
Max_Receive_Rate	INTENSITY	FLOAT	T7236:Maximum Receive Rate of UOI board	B82834003.C73416129	Average	Sum, Minimum, Maximum
Max_Transmit_Rate	INTENSITY	FLOAT	T7237:Maximum Transmit Rate of UOI board	B82834003.C73416130	Average	Sum, Minimum, Maximum

### 7.33.2 NonChannel\_OpticalPort.Huawei.GSM.Optical\_Port\_Measurement

#### Optical Port Measurement

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
Cells_Received	ACCUMULATION	INTEGER	T7214:Number of Cells Received on the Optical Port	B82834002.C73416121	Sum	
Cells_Transmitted	ACCUMULATION	INTEGER	T7217:Number of Cells Transmitted on the Optical Port	B82834002.C73416122	Sum	
Faults_Duration	ACCUMULATION	INTEGER	T7222:Duration of Faults on the Optical Port	B82834002.C73404139	Sum	
Highest_Receive_Rate	INTENSITY	FLOAT	T7230:Highest Receive Rate over the Optical Port	B82834002.C73416126	Average	Sum, Minimum, Maximum
Highest_Transmit_Rate	INTENSITY	FLOAT	T7225:Highest Transmit Rate	B82834002.C73416123	Average	Sum, Minimum

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			over the Optical Port			m, Maximum
Lowest_Receive_Rate	INTENSITY	FLOAT	T7231:Lowest Receive Rate over the Optical Port	B82834002.C73416127	Average	Sum, Minimum, Maximum
Lowest_Transmit_Rate	INTENSITY	FLOAT	T7226:Lowest Transmit Rate over the Optical Port	B82834002.C73416124	Average	Sum, Minimum, Maximum
Mean_Receive_Rate	INTENSITY	FLOAT	T7232:Mean Receive Rate over the Optical Port	B82834002.C73416128	Average	Sum, Minimum, Maximum
Mean_Transmit_Rate	INTENSITY	FLOAT	T7227:Mean Transmit Rate over the Optical Port	B82834002.C73416125	Average	Sum, Minimum, Maximum

### 7.34 NSVC Performance Indicators

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

- [NSVC.Huawei.GSM.NS\\_transfer\\_capability](#)

#### 7.34.1 NSVC.Huawei.GSM.NS\_transfer\_capability

Network Service transfer capability

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
NSVC_TOT_TXRX_NS_PDU	ACCUMULATION	INT8	Total number of Sent and Received NS PDUs (NSVC)	B1275072817.C1279469418 + C1279469417	Sum	

NSVC_TRAN_DISCARD_NS_PDU	ACCUMULATION	INT8	L9703: Number of Discarded NS PDUs (NSVC)	B1275072817.C127 9469419	Sum	hunpdvb h
NSVC_TRAN_RX_BLOCK_ACK_MSG	ACCUMULATION	INT8	L9711: Number of Received BLOCK ACK Messages	B1275072817.C127 9469427	Sum	hunpdvb h
NSVC_TRAN_RX_BLOCK_MSG	ACCUMULATION	INT8	L9712: Number of Received BLOCK Messages	B1275072817.C127 9469428	Sum	hunpdvb h
NSVC_TRAN_RX_NS_PDU_TOTAL_BYTE	ACCUMULATION	INT8	L9705: Total Number of Bytes of Received NS PDUs (NSVC)	B1275072817.C127 9469421	Sum	hunpdvb h
NSVC_TRAN_RX_NS_PDU	ACCUMULATION	INT8	L9702: Number of Received NS PDUs (NSVC)	B1275072817.C127 9469418	Sum	hunpdvb h
NSVC_TRAN_RX_RST_ACK_MSG	ACCUMULATION	INT8	L9707: Number of Received RESET ACK Messages	B1275072817.C127 9469423	Sum	hunpdvb h
NSVC_TRAN_RX_RST_MSG	ACCUMULATION	INT8	L9708: Number of Received RESET Messages	B1275072817.C127 9469424	Sum	hunpdvb h
NSVC_TRAN_RX_UNBLOCK_ACK_MSG	ACCUMULATION	INT8	L9715: Number of Received UNBLOCK ACK Messages	B1275072817.C127 9469431	Sum	hunpdvb h
NSVC_TRAN_RX_UNBLOCK_MSG	ACCUMULATION	INT8	L9716: Number of Received UNBLOCK Messages	B1275072817.C127 9469432	Sum	hunpdvb h

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NSVC_TRAN_TX_BLOCK_ACK_MSG	ACCUMULATION	INT8	L9713: Number of Sent BLOCK ACK Messages	B1275072817.C127 9469429	Sum	hunpdvb h
NSVC_TRAN_TX_BLOCK_MSG	ACCUMULATION	INT8	L9710: Number of Sent BLOCK Messages	B1275072817.C127 9469426	Sum	hunpdvb h
NSVC_TRAN_TX_NS_PDU_TOTAL_BYTE	ACCUMULATION	INT8	L9704: Total Number of Bytes of Sent NS PDUs (NSVC)	B1275072817.C127 9469420	Sum	hunpdvb h
NSVC_TRAN_TX_NS_PDU	ACCUMULATION	INT8	L9701: Number of Sent NS PDUs (NSVC)	B1275072817.C127 9469417	Sum	hunpdvb h
NSVC_TRAN_TX_RST_ACK_MSG	ACCUMULATION	INT8	L9709: Number of Sent RESET ACK Messages	B1275072817.C127 9469425	Sum	hunpdvb h
NSVC_TRAN_TX_RST_MSG	ACCUMULATION	INT8	L9706: Number of Sent RESET Messages	B1275072817.C127 9469422	Sum	hunpdvb h
NSVC_TRAN_TX_UNBLOCK_ACK_MSG	ACCUMULATION	INT8	L9717: Number of Sent UNBLOCK ACK Messages	B1275072817.C127 9469433	Sum	hunpdvb h
NSVC_TRAN_TX_UNBLOCK_MSG	ACCUMULATION	INT8	L9714: Number of Sent UNBLOCK Messages	B1275072817.C127 9469430	Sum	hunpdvb h

## 7.35 NSVL Performance Indicators

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

- [NSVL.Huawei.GSM.NSVL\\_capability](#)

### 7.35.1 NSVL.Huawei.GSM.NSVL\_capability

Network Service capability

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

		Type			Aggregator	Aggregators
MAX_NUM_BYTE_NS_PDU_RX	INTENSITY	INT8	L9807:Maximum Number of Bytes of NS PDUs Received on NSVL	B1275072818.C1279470423	Average	Sum, Minimum, Maximum
MAX_NUM_BYTE_NS_PDU_TX	INTENSITY	INT8	L9806:Maximum Number of Bytes of NS PDUs Sent on NSVL	B1275072818.C1279470422	Average	Sum, Minimum, Maximum
NSVL_TRAN_DISCARD_NS_PDU_NUM	ACCUMULATION	INT8	L9803:Number of Discarded NS PDUs (NSVL)	B1275072818.C1279470419	Sum	
NSVL_TRAN_RX_NS_PDU_NUM	ACCUMULATION	INT8	L9802:Number of Received NS PDUs (NSVL)	B1275072818.C1279470418	Sum	
NSVL_TRAN_RX_NS_PDU_TOTAL_BYTE	ACCUMULATION	INT8	L9805:Total Number of Bytes of Received NS PDUs (NSVL)	B1275072818.C1279470421	Sum	
NSVL_TRAN_TX_NS_PDU_NUM	ACCUMULATION	INT8	L9801:Number of Sent NS PDUs (NSVL)	B1275072818.C1279470417	Sum	
NSVL_TRAN_TX_NS_PDU_TOTAL_BYTE	ACCUMULATION	INT8	L9804:Total Number of Bytes of Sent NS PDUs (NSVL)	B1275072818.C1279470420	Sum	

### 7.36 PCU Performance Indicators

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

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- [PCU.Huawei.GSM.Pb\\_interface\\_circuit](#)
- [PCU.Huawei.GSM.PCU\\_messages](#)

### 7.36.1 PCU.Huawei.GSM.Pb\_interface\_circuit

Circuits on the Pb interface

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
L8351A	ACCUMULATION	INT8	L8351A:	B1275070017.C1276669417	Sum	hupvbh
L8351B	ACCUMULATION	INT8	L8351B:	B1275070017.C1276669418	Sum	hupvbh
L8352A	ACCUMULATION	INT8	L8352A:	B1275070017.C1276669429	Sum	hupvbh
L8352B	ACCUMULATION	INT8	L8352B:	B1275070017.C1276669430	Sum	hupvbh
L8353A	ACCUMULATION	INT8	L8353A:	B1275070017.C1276669420	Sum	hupvbh
L8353B	ACCUMULATION	INT8	L8353B:	B1275070017.C1276669421	Sum	hupvbh
L8354A	ACCUMULATION	INT8	L8354A:	B1275070017.C1276669423	Sum	hupvbh
L8354B	ACCUMULATION	INT8	L8354B:	B1275070017.C1276669424	Sum	hupvbh
L8355A	ACCUMULATION	INT8	L8355A:	B1275070017.C1276669426	Sum	hupvbh
L8355B	ACCUMULATION	INT8	L8355B:	B1275070017.C1276669427	Sum	hupvbh
PCU_PB_INTF_BUSY_PCI_C_AVG	INTENSITY	FLOAT	AL8355:Mean Number of Busy Circuits on the Pb Interface	B1275070017.C1276669428	Average	Average, Maximum, Minimum, Sum
PCU_PB_INTF_CONG_PCI_C_AVG	INTENSITY	FLOAT	AL8353:Mean Number of Blocked	B1275070017.C1276669422	Average	Average, hupvbh, Maximum

			Circuits on the Pb Interface			m, Minimum, Sum
PCU_PB_INTF_FAIL_PCIC_AVG	INTENSITY	FLOAT	AL8351:Mean Number of Faulty Circuits on the Pb Interface	B1275070017.C1276669419	Average	Average, hupvbh, Maximum, Minimum, Sum
PCU_PB_INTF_IDLE_PCIC_AVG	INTENSITY	FLOAT	AL8354:Mean Number of Idle Circuits on the Pb Interface	B1275070017.C1276669425	Average	Average, hupvbh, Maximum, Minimum, Sum
PCU_PB_INTF_MTN_PCIC_AVG	INTENSITY	FLOAT	AL8352:Mean Number of Circuits in Maintenance State on the Pb Interface	B1275070017.C1276669431	Average	Average, hupvbh, Maximum, Minimum, Sum
TOT_PB_CKT	ACCUMULATION	INT8	Total number of Circuits on the Pb Interface	B1275070017.C1276669417 + C1276669420 + C1276669423 + C1276669426 + C1276669429	Sum	hupvbh

### 7.36.2 PCU.Huawei.GSM.PCU\_messages

Messages received from a PCU

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
PCU_MSG_RX_FROM_PB_INTF_NUM	ACCUMULATION	INTEGER	L8387:Messages Received from a PCU	B1275071017.C1277669417	Sum	

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## 7.37 PORT\_ABIS Performance Indicators

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

- [PORT\\_ABIS.Huawei.GSM.Abis\\_interface\\_utilisation](#)

### 7.37.1 PORT\_ABIS.Huawei.GSM.Abis\_interface\_utilisation

Measurement is used to measure the occupied timeslots on the Abis interface, including the mean number of occupied timeslots and the maximum number of occupied timeslots.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ABIS_TS_FAULT_TIMES_OF_SITE	ACCUMULATION	INT8	L1121A:Abis Timeslot Fault Times of the Site	B1275070117.C128 2411883	Sum	
AVG_NUM_BUSY_CKT	INTENSITY	FLOAT	L1151A:Average Number of Busy Circuits on the Abis Port	B1275070117.C127 6769417	Average	Sum, Minimum, Maximum
MAX_NUM_BUSY_CKT	INTENSITY	INTEGER	L1151B:Max Number of Busy Circuits on the Abis Port .Obsolete in V900R011.	B1275070117.C127 6769418	Average	Sum, Minimum, Maximum

## 7.38 PPP\_BSC Performance Indicators

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

- [PPP\\_BSC.Huawei.GSM.PPP\\_link\\_queue\\_utilisation](#)
- [PPP\\_BSC.Huawei.GSM.PPP\\_link\\_utilisation](#)

### 7.38.1 PPP\_BSC.Huawei.GSM.PPP\_link\_queue\_utilisation

PPP link queue KPIs.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
AVG_TX_RATE	INTENSITY	FLOAT	T7387:Average Transmit Rate of a PPP Link Queue	B67109543.C67204583	Average	Average, Maximum, Minimum, Sum
BYTES_DISC_TX	ACCUMULATION	INT8	T7384:Number of Bytes Discarded in Transmission on a PPP Link Queue	B67109543.C67195195	Sum	
BYTES_TX	ACCUMULATION	INT8	T7382:Number of Bytes Transmitted in a PPP Link Queue	B67109543.C67195193	Sum	
MAX_TX_RATE	INTENSITY	FLOAT	T7386:Maximum Transmit Rate of a PPP Link Queue	B67109543.C67204582	Average	Average, Maximum, Minimum, Sum
PKT_DISC_TX	ACCUMULATION	INT8	T7383:Number of Packets Discarded in Transmission on a PPP Link Queue	B67109543.C67195194	Sum	
PKT_TX	ACCUMULATION	INT8	T7381:Number of Packets Transmitted in a PPP Link Queue	B67109543.C67195192	Sum	

### 7.38.2 PPP\_BSC.Huawei.GSM.PPP\_link\_utilisation

PPP link KPIs.

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KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
AVG_RX_RATE	INTENSITY	FLOAT	T7363:Average Receive Rate of a PPP Link	B67109491.C67194431	Average	Average, Maximum, Minimum, Sum
AVG_TX_RATE	INTENSITY	FLOAT	T7358:Average Transmit Rate of a PPP Link	B67109491.C67194428	Average	Average, Sum, Minimum, Maximum
BWD_BW_ALLOCATION	ACCUMULATION	INT8	T7368:Backward Bandwidth Allocated of PPP Link	B67109491.C67204199	Sum	
BWD_CONG	ACCUMULATION	INT8	T7375:Number of PPP Link Backward Congestions	B67109491.C67193249	Sum	
BYTES_RX	ACCUMULATION	INT8	T7349:Number of Bytes Received on a PPP Link	B67109491.C67194421	Sum	
BYTES_TX	ACCUMULATION	INT8	T7346:Number of Bytes Transmitted on a PPP Link.	B67109491.C67194418	Sum	
DUR_BWD_CONG	ACCUMULATION	INT8	T7376:Duration of PPP Link Backward Congestions	B67109491.C67193250	Sum	
DUR_FWD_CONG	ACCUMULATION	INT8	T7374:Duration of PPP Link Forward Congestions	B67109491.C67193248	Sum	
DURFAULTS	ACCUMULATION	INT8	T7353:Duration of Faults on a	B67109491.C67194425	Sum	

			PPP Link			
FWD_BW_ALL OC	ACCUMULA TION	INT8	T7365:Forward Bandwidth Allocated of PPP Link	B67109491.C6720 4198	Sum	
FWD_CONG	ACCUMULA TION	INT8	T7373:Number of PPP Link Forward Congestions	B67109491.C6719 3247	Sum	
MAX_BWD_B W_ALLOC	INTENSITY	FLOA T	T7372:Maximu m Backward Bandwidth Allocated of PPP Link	B67109491.C6719 3246	Average	Average, Maximu m, Minimu m, Sum
MAX_FWD_B W_ALLOC	INTENSITY	FLOA T	T7371:Maximu m Forward Bandwidth Allocated of PPP Link	B67109491.C6719 3245	Average	Average, Maximu m, Minimu m, Sum
MAX_RX_RAT E	INTENSITY	FLOA T	T7361:Maximu m Receive Rate of a PPP Link	B67109491.C6719 4429	Average	Average, Maximu m, Minimu m, Sum
MAX_TX_RAT E	INTENSITY	FLOA T	T7356:Maximu m Transmit Rate of a PPP Link	B67109491.C6719 4426	Average	Average, Maximu m, Minimu m, Sum
MRX_RATE	INTENSITY	FLOA T	T7362:Minimu m Receive Rate of a PPP Link	B67109491.C6719 4430	Average	Sum, Minimu m, Maximu m
MTX_RATE	INTENSITY	FLOA T	T7357:Minimu m Transmit	B67109491.C6719 4427	Average	Sum, Minimu

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			Rate of a PPP Link			m, Maximum
PKT_DISC_RECEPTION	ACCUMULATION	INT8	T7350: Number of Packets Discarded in Reception on a PPP Link	B67109491.C67194422	Sum	
PKT_DISC_TX	ACCUMULATION	INT8	T7347: Number of Packets Discarded in Transmission on a PPP Link	B67109491.C67194419	Sum	
PKT_SUCC_RX	ACCUMULATION	INT8	T7348: Number of Packets Successfully Received on a PPP Link	B67109491.C67194420	Sum	
PKT_TX	ACCUMULATION	INT8	T7345: Number of Packets Transmitted on a PPP Link	B67109491.C67194417	Sum	
TOT_CONGESTION_DUR	ACCUMULATION	INT8	Total Duration of PPP Link Congestions	B67109491.C67193248 + C67193250	Sum	
TOT_CONGESTION	ACCUMULATION	INT8	Total Number of PPP Link Congestions	B67109491.C67193247 + C67193249	Sum	

### 7.39 Processor Performance Indicators

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

- [Processor.Huawei.GSM.CPU\\_usage](#)
- [Processor.Huawei.GSM.DPU\\_CPU\\_Usage](#)
- [Processor.Huawei.GSM.GCU\\_CPU\\_Usage](#)
- [Processor.Huawei.GSM.INT\\_CPU\\_usage](#)
- [Processor.Huawei.GSM.SCU\\_CPU\\_usage](#)
- [Processor.Huawei.GSM.TNU\\_CPU\\_usage](#)
- [Processor.Huawei.GSM.XPU\\_CPU\\_usage](#)

### 7.39.1 Processor.Huawei.GSM.CPU\_usage

Processor usage

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
Accum_CPU_Usage	ACCUMULATION	INTEGER	R9700:accum CPU Usage	B1275068428.C1275080417	Sum	hupuvbh
CPU_Usage_meas	ACCUMULATION	INTEGER	R9701:Number of CPU Usage meas	B1275068428.C1275080418	Sum	hupuvbh
CPU_USG_AVG	INTENSITY	FLOAT	AR9702:Average CPU Usage	B1275068428.C1275080419	Average	Average, Maximum, Minimum, Sum
CPU_USG_MAX	INTENSITY	INTEGER	R9703:Maximum CPU Usage	B1275068428.C1275080420	Constant	Average, hupuvbh, Maximum, Minimum, Sum

### 7.39.2 Processor.Huawei.GSM.DPU\_CPU\_Usage

DPU measurement indicates the operating status, such as the CPU usage, packet usage, of a single DPU.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
AVG_CPU_USG	INTENSITY	FLOAT	AR9760:Average CPU Usage of the DPU	B67109516.C67204463	Average	Sum, Minimum, Maximum
MAX_CPU_USG	INTENSITY	FLOAT	HR9760:Maximum CPU Usage of the DPU	B67109516.C67194743	Average	Sum, Minimum,

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						Maximum
RATE_CPU_USAGE_BELOW_ALARM_THRES	INTENSITY	FLOAT	TR9760b:Rate of the Period in Which the CPU Usage of the DPU is Lower than the Alarm Threshold	B67109516.C67204465	Average	Sum, Minimum, Maximum
RATE_CPU_USAGE_EXC_ALARM_THRES	INTENSITY	FLOAT	TR9760a:Rate of the Period in Which the CPU Usage of the DPU Exceeds the Alarm Threshold	B67109516.C67204464	Average	Sum, Minimum, Maximum

### 7.39.3 Processor.Huawei.GSM.GCU\_CPU\_Usage

GCU measurement indicates the operating status, such as the CPU usage, packet usage, and timer usage, of a single GCU.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
AVG_CPU_USAGE	INTENSITY	FLOAT	AR9750:Average CPU Usage of the GCU	B67109493.C67204336	Average	Sum, Minimum, Maximum
MAX_CPU_USAGE	INTENSITY	FLOAT	HR9750:Maximum CPU Usage of the GCU	B67109493.C67194447	Average	Sum, Minimum, Maximum
RATE_CPU_USAGE_BELOW_ALARM_THRES	INTENSITY	FLOAT	TR9750b:Rate of the Period in Which the CPU Usage of the GCU is Lower than the Alarm Threshold	B67109493.C67204338	Average	Sum, Minimum, Maximum
RATE_CPU_USAGE	INTENSITY	FLOAT	TR9750a:Rate of	B67109493.C672043	Average	Sum,

G_EXC_ALARM_THRES	TY	T	the Period in Which the CPU Usage of the GCU Exceeds the Alarm Threshold	37		Minimum, Maximum
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### 7.39.4 Processor.Huawei.GSM.INT\_CPU\_usage

INT measurement indicates the operating state, such as the CPU usage, of a single INT system.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
AVG_CPU_USAGE	INTENSITY	FLOAT	AR9700:Average CPU Usage of the INT	B82833961.C73415843	Average	Sum, Minimum, Maximum
MAX_CPU_USAGE	INTENSITY	FLOAT	HR9700:Maximum CPU Usage of the INT	B82833961.C73403674	Average	Sum, Minimum, Maximum
RATE_CPU_USAGE_BELOW_ALARM_THRES	INTENSITY	FLOAT	TR9700b:Rate of the Period in Which the CPU Usage of the INT is Lower than the Alarm Threshold	B82833961.C73415845	Average	Sum, Minimum, Maximum
RATE_CPU_USAGE_EXC_ALARM_THRES	INTENSITY	FLOAT	TR9700a:Rate of the Period in Which the CPU Usage of the INT Exceeds the Alarm Threshold	B82833961.C73415844	Average	Sum, Minimum, Maximum

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### 7.39.5 Processor.Huawei.GSM.SCU\_CPU\_usage

SCU performance measurement indicates the operating status, such as the CPU usage, packet usage, of a single SCU.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
AVG_CPU_USAGE	INTENSITY	FLOAT	AR9730:Average CPU Usage of the SCU	B67109515.C67204467	Average	Sum, Minimum, Maximum
MAX_CPU_USAGE	INTENSITY	FLOAT	HR9730:Maximum CPU Usage of the SCU	B67109515.C67194751	Average	Sum, Minimum, Maximum
RATE_CPU_USAGE_BELOW_ALARM_THRESHOLD	INTENSITY	FLOAT	TR9730b:Rate of the Period in Which the CPU Usage of the SCU is Lower than the Alarm Threshold	B67109515.C67204469	Average	Sum, Minimum, Maximum
RATE_CPU_USAGE_EXCEEDS_ALARM_THRESHOLD	INTENSITY	FLOAT	TR9730a:Rate of the Period in Which the CPU Usage of the SCU Exceeds the Alarm Threshold	B67109515.C67204468	Average	Sum, Minimum, Maximum

### 7.39.6 Processor.Huawei.GSM.TNU\_CPU\_usage

TNU measurement indicates the operating status, such as the CPU usage and packet usage, of a single TNU.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
AVG_CPU_USAGE	INTENSITY	FLOAT	AR9740:Average CPU usage of the TNU	B1290793512.C1282423966	Average	Sum, Minimum, Maximum

						m
MAX_CPU_USAGE	INTENSITY	FLOAT	HR9740:Maximum CPU usage of the TNU	B1290793512.C1282411790	Average	Sum, Minimum, Maximum
RATE_CPU_USAGE_BELOW_ALARM_THRES	INTENSITY	FLOAT	TR9740b:Rate of the period in which the CPU usage of the TNU is lower than the alarm threshold	B1290793512.C1282423968	Average	Sum, Minimum, Maximum
RATE_CPU_USAGE_EXC_ALARM_THRES	INTENSITY	FLOAT	TR9740a:Rate of the period in which the CPU usage of the TNU exceeds the alarm threshold	B1290793512.C1282423967	Average	Sum, Minimum, Maximum

### 7.39.7 Processor.Huawei.GSM.XPU\_CPU\_usage

XPU measurement indicates the operating status, such as the CPU usage, memory usage, of a single XPU.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
Average_Packet_Usage	INTENSITY	FLOAT	AR9782:Average Packet Usage of the XPU	B82833917.C73415214	Average	Sum, Minimum, Maximum
AVG_CPU_USAGE	INTENSITY	FLOAT	AR9780:Average CPU Usage of the XPU	B82833917.C73415210	Average	Sum, Minimum, Maximum

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MAX_CPU_USAGE	INTENSITY	FLOAT	HR9780:Maximum CPU Usage of the XPU	B82833917.C73390062	Average	Sum, Minimum, Maximum
Maximum_Packet_Usage	INTENSITY	INTEGER	HR9782:Maximum Packet Usage of the XPU	B82833917.C73390070	Average	Sum, Minimum, Maximum
RATE_CPU_USAGE_BELOW_ALARM_THRES	INTENSITY	FLOAT	TR9780b:Rate of the Period in Which the CPU Usage of the XPU is Lower than the Alarm Threshold	B82833917.C73415212	Average	Sum, Minimum, Maximum
RATE_CPU_USAGE_EXC_ALARM_THRES	INTENSITY	FLOAT	TR9780a:Rate of the Period in Which the CPU Usage of the XPU Exceeds the Alarm Threshold	B82833917.C73415211	Average	Sum, Minimum, Maximum

## 7.40 PTUFE Performance Indicators

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

- [PTUFE.Huawei.GSM.PTUfe\\_utilisation](#)

### 7.40.1 PTUFE.Huawei.GSM.PTUfe\_utilisation

PTUFE utilisation

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
PTUFE_RX_CRC_ERROR	ACCUMULATION	INT8	SC003A:Error CRC Packets Received over FE Port of the	B1275069431.C1276083423	Sum	

			PTU			
PTUFE_RX_CS_PACK_NUMBER	ACCUMULATION	INT8	SC000A:CS Packets Received over FE Port of the PTU	B1275069431.C1276083418	Sum	
PTUFE_RX_CTRL_PACK_NUMBER	ACCUMULATION	INT8	SC002A:Control-Plane Packets Received over FE Port of the PTU	B1275069431.C1276083422	Sum	
PTUFE_RX_PS_PACK_NUMBER	ACCUMULATION	INT8	SC001A:PS Packets Received over FE Port of the PTU	B1275069431.C1276083420	Sum	
PTUFE_TX_CS_PACK_NUMBER	ACCUMULATION	INT8	SC010A:CS Packets Sent over FE Port of the PTU	B1275069431.C1276083417	Sum	
PTUFE_TX_CTRL_PACK_NUMBER	ACCUMULATION	INT8	SC012A:Control-Plane Packets Sent over FE Port of the PTU	B1275069431.C1276083421	Sum	
PTUFE_TX_PS_PACK_NUMBER	ACCUMULATION	INT8	SC011A:PS Packets Sent over FE Port of the PTU	B1275069431.C1276083419	Sum	
TOT_RX_PKT	ACCUMULATION	INT8	Total Packets Received over FE Port	B1275069431.C1276083418 + C1276083420 + C1276083422 + C1276083423	Sum	
TOT_TX_PKT	ACCUMULATION	INT8	Total Packets Sent over FE Port	B1275069431.C1276083417 + C1276083419 +	Sum	

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## 7.41 SCCP\_DSP Performance Indicators

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

- [SCCP\\_DSP.Huawei.GSM.A\\_interface\\_circuit](#)
- [SCCP\\_DSP.Huawei.GSM.MSC\\_destination](#)
- [SCCP\\_DSP.Huawei.GSM.TC\\_measurement](#)

### 7.41.1 SCCP\_DSP.Huawei.GSM.A\_interface\_circuit

A interface terrestrial circuit measurements

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
BS_A_INTF_BUSY_CIC_AVG	INTENSITY	FLOAT	AL0055:Mean Number of Busy Circuits on the A Interface. Obsolete in V900R003	B1275069617.C1276269434	Average	Average, Maximum, Minimum, Sum
BS_A_INTF_CONG_CIC_AVG	INTENSITY	FLOAT	AL0053:Mean Number of Blocked Circuits on the A Interface. Obsolete in V900R003	B1275069617.C1276269428	Average	Average, Maximum, Minimum, Sum
BS_A_INTF_FAIL_CIC_AVG	INTENSITY	FLOAT	AL0051:Mean Number of Faulty Circuits on the A Interface. Obsolete in V900R003	B1275069617.C1276269422	Average	Average, Maximum, Minimum, Sum
BS_A_INTF_IDLE_CIC_AVG	INTENSITY	FLOAT	AL0054:Mean Number of Idle Circuits on the A Interface.	B1275069617.C1276269431	Average	Average, Maximum, Minimum

			Obsolete in V900R003			m, Sum
BS_A_INTF_MTN_CIC_AVG	INTENSITY	FLOAT	AL0052:Mean Number of Circuits in Maintenance State on the A Interface. Obsolete in V900R003	B1275069617.C1276269425	Average	Average, Maximum, Minimum, Sum
BS_A_INTF_PEER_UNINST_CIC_AVG	INTENSITY	FLOAT	AL0089:Mean Number of Circuits with Uninstalled Peer Circuits on the A Interface. Obsolete in V900R003	B1275069617.C1276269437	Average	Average, Maximum, Minimum, Sum
BS_A_INTF_UNINST_CIC_AVG	INTENSITY	FLOAT	AL0050:Mean Number of Uninstalled Circuits on the A Interface. Obsolete in V900R003	B1275069617.C1276269419	Average	Average, Maximum, Minimum, Sum
L0050A	ACCUMULATION	INTEGER	L0050A:. Obsolete in V900R003	B1275069617.C1276269417	Sum	
L0050B	ACCUMULATION	INTEGER	L0050B:. Obsolete in V900R003	B1275069617.C1276269418	Sum	
L0051A	ACCUMULATION	INTEGER	L0051A:. Obsolete in V900R003	B1275069617.C1276269420	Sum	
L0051B	ACCUMULATION	INTEGER	L0051B:. Obsolete in V900R003	B1275069617.C1276269421	Sum	

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L0052A	ACCUMULATION	INTEGER	L0052A:. Obsolete in V900R003	B1275069617.C12 76269423	Sum	
L0052B	ACCUMULATION	INTEGER	L0052B:. Obsolete in V900R003	B1275069617.C12 76269424	Sum	
L0053A	ACCUMULATION	INTEGER	L0053A:. Obsolete in V900R003	B1275069617.C12 76269426	Sum	
L0053B	ACCUMULATION	INTEGER	L0053B:. Obsolete in V900R003	B1275069617.C12 76269427	Sum	
L0054A	ACCUMULATION	INTEGER	L0054A:. Obsolete in V900R003	B1275069617.C12 76269429	Sum	
L0054B	ACCUMULATION	INTEGER	L0054B:. Obsolete in V900R003	B1275069617.C12 76269430	Sum	
L0055A	ACCUMULATION	INTEGER	L0055A:. Obsolete in V900R003	B1275069617.C12 76269432	Sum	
L0055B	ACCUMULATION	INTEGER	L0055B:. Obsolete in V900R003	B1275069617.C12 76269433	Sum	
L0089A	ACCUMULATION	INTEGER	L0089A:. Obsolete in V900R003	B1275069617.C12 76269435	Sum	
L0089B	ACCUMULATION	INTEGER	L0089B:. Obsolete in V900R003	B1275069617.C12 76269436	Sum	

#### 7.41.2 SCCP\_DSP.Huawei.GSM.MSC\_destination

KPIs relating to BSC-MSC relationship

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
BS_A_MSC_R	ACCUMULATION	INTEGER	L0056A:Numb	B1275070417.C127	Sum	

ST	TION	ER	er of MSC Resets	7069417		
BS_MSG_RX_FROM_A_INF	ACCUMULATION	INTEGER	L0056B: Number of Messages Received from MSC	B1275070417.C127 7069418	Sum	
USER_ASSIG_MSC_NRIL_SHR_TMSI	ACCUMULATION	INT8	L0057F: Number of Users Assigned to the MSC According to NRI Load Sharing in TMSI	B1275070417.C128 2411682	Sum	
USER_ASSIG_MSC_NRIL_SHRNO_TMSI	ACCUMULATION	INT8	L0057G: Number of Users Assigned to the MSC According to NRI Load Sharing Not in Pool in TMSI	B1275070417.C128 2411683	Sum	
User_IMEI_distBSC	ACCUMULATION	INT8	L0057B: User Numbers of IMEI dist by BSC	B1275070417.C127 7069420	Sum	
User_IMSI_distBSC_IMSI_Page_resp	ACCUMULATION	INT8	L0057D: User Numbers of IMSI dist by BSC( IMSI Page Response)	B1275070417.C127 7069422	Sum	
User_IMSI_distBSC_Not_emerg_Call	ACCUMULATION	INT8	L0057E: User Numbers of IMSI dist by BSC(Not Emergency Call)	B1275070417.C127 7069423	Sum	

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User_IMSI_distBSC_Not_IMSI_Page_resp	ACCUMULATION	INT8	L0057A:User Numbers of IMSI dist by BSC(Not IMSI Page Response)	B1275070417.C1277069419	Sum	
User_NULL_NRI_TMSI_distBSC	ACCUMULATION	INT8	L0057C:User Numbers of NULL NRI in TMSI dist by BSC	B1275070417.C1277069421	Sum	

### 7.41.3 SCCP\_DSP.Huawei.GSM.TC\_measurement

Busy, idle and faulty TC measurements.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
AR0752	INTENSITY	FLOAT	AR0752:. Obsolete in V900R003	B1275069817.C1276469422	Average	Average, Maximum, Minimum, Sum
AR0753	INTENSITY	FLOAT	AR0753:. Obsolete in V900R003	B1275069817.C1276469431	Average	Average, Maximum, Minimum, Sum
BS_RES_BUSY_TC_AVG	INTENSITY	FLOAT	AR0755:Mean Number of Busy TCs. Obsolete in V900R003	B1275069817.C1276469428	Average	Average, Maximum, Minimum, Sum
BS_RES_FAIL_TC_AVG	INTENSITY	FLOAT	AR0751:Mean Number of Faulty TCs. Obsolete in V900R003	B1275069817.C1276469419	Average	Average, Maximum, Minimum, Sum
BS_RES_IDLE_TC_AVG	INTENSITY	FLOAT	AR0754:Mean Number of Idle TCs. Obsolete in V900R003	B1275069817.C1276469425	Average	Average, Maximum, Minimum

						m, Sum
R0751A	ACCUMULATION	INTEGER	R0751A:. Obsolete in V900R003	B1275069817.C127 6469417	Sum	
R0751B	ACCUMULATION	INTEGER	R0751B:. Obsolete in V900R003	B1275069817.C127 6469418	Sum	
R0752A	ACCUMULATION	INTEGER	R0752A:. Obsolete in V900R003	B1275069817.C127 6469420	Sum	
R0752B	ACCUMULATION	INTEGER	R0752B:. Obsolete in V900R003	B1275069817.C127 6469421	Sum	
R0753A	ACCUMULATION	INTEGER	R0753A:. Obsolete in V900R003	B1275069817.C127 6469429	Sum	
R0753B	ACCUMULATION	INTEGER	R0753B:. Obsolete in V900R003	B1275069817.C127 6469430	Sum	
R0754A	ACCUMULATION	INTEGER	R0754A:. Obsolete in V900R003	B1275069817.C127 6469423	Sum	
R0754B	ACCUMULATION	INTEGER	R0754B:. Obsolete in V900R003	B1275069817.C127 6469424	Sum	
R0755A	ACCUMULATION	INTEGER	R0755A:. Obsolete in V900R003	B1275069817.C127 6469426	Sum	
R0755B	ACCUMULATION	INTEGER	R0755B:. Obsolete in V900R003	B1275069817.C127 6469427	Sum	

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## 7.42 SCCP\_OSP Performance Indicators

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

- [SCCP\\_OSP.Huawei.GSM.Link\\_utilisation](#)
- [SCCP\\_OSP.Huawei.GSM.Utilisation](#)

### 7.42.1 SCCP\_OSP.Huawei.GSM.Link\_utilisation

link utilisation

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
SCCP_CC_RX	ACCUMULATION	INT8	L7012:Received CC Messages	B1275068417.C1275069428	Sum	
SCCP_CC_TX	ACCUMULATION	INT8	L7011:Sent CC Messages	B1275068417.C1275069427	Sum	
SCCP_CR_RX	ACCUMULATION	INT8	L7006:Number of Received CR Messages	B1275068417.C1275069422	Sum	
SCCP_CR_TX	ACCUMULATION	INT8	L7005:Number of Sent CR Messages	B1275068417.C1275069421	Sum	
SCCP_CREF_RX	ACCUMULATION	INT8	L7008:Number of Received CREFR Messages	B1275068417.C1275069424	Sum	
SCCP_CREF_TX	ACCUMULATION	INT8	L7007:Number of Sent CREFR Messages	B1275068417.C1275069423	Sum	
SCCP_DT1_RX	ACCUMULATION	INT8	L7014:Received DT1 Messages	B1275068417.C1275069430	Sum	
SCCP_DT1_TX	ACCUMULATION	INT8	L7013:Sent DT1 Messages	B1275068417.C1275069429	Sum	
SCCP_REJ_LOCAL	INTENSITY	FLOAT	RL7010:Ratio of CREF by Local SCCP	B1275068417.C1275069426	Average	Average, Maximum, Minimum

						m, Sum
SCCP_REJ_REMOTE	INTENSITY	FLOAT	RL7009:Ratio of CREF by Peer SCCP	B1275068417.C1275069425	Average	Average, Maximum, Minimum, Sum
SCCP_RLC_RX	ACCUMULATION	INT8	L7018:Received RLC Messages	B1275068417.C1275069434	Sum	
SCCP_RLC_TX	ACCUMULATION	INT8	L7017:Sent RLC Messages	B1275068417.C1275069433	Sum	
SCCP_RLSD_RX	ACCUMULATION	INT8	L7016:Received RLSD Messages	B1275068417.C1275069432	Sum	
SCCP_RLSD_TX	ACCUMULATION	INT8	L7015:Sent RLSD Messages	B1275068417.C1275069431	Sum	
SCCP_UDT_RX	ACCUMULATION	INT8	L7002:Number of Received UDT Messages	B1275068417.C1275069418	Sum	
SCCP_UDT_TX	ACCUMULATION	INT8	L7001:Number of Sent UDT Messages	B1275068417.C1275069417	Sum	
SCCP_XUDT_RX	ACCUMULATION	INT8	L7004:Number of Received XUDT Messages	B1275068417.C1275069420	Sum	
SCCP_XUDT_TX	ACCUMULATION	INT8	L7003:Number of Sent XUDT Messages	B1275068417.C1275069419	Sum	
TOT_RX_MSG	ACCUMULATION	INT8	Total Number of Received Messages	B1275068417.C1275069418 + C1275069420 + C1275069422 + C1275069424 +	Sum	

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				C1275069428 + C1275069430 + C1275069432 + C1275069434		
TOT_TX_MSG	ACCUMULATION	INT8	Total Number of Sent Messages	B1275068417.C1275069417 + C1275069419 + C1275069421 + C1275069423 + C1275069427 + C1275069429 + C1275069431 + C1275069433	Sum	

### 7.42.2 SCCP\_OSP.Huawei.GSM.Utilisation

Measurement related to the SCCP originating signaling point.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CC_MSG_RX	ACCUMULATION	INT8	T6243: Number of CC Messages Received by SCCP	B67109452.C73403253	Sum	
CC_MSG_TX	ACCUMULATION	INT8	T6242: Number of CC Messages Sent by SCCP	B67109452.C73403252	Sum	
CLASS_2_MSG_RX	ACCUMULATION	INT8	T6234: Number of Class 2 Messages Received by SCCP	B67109452.C67178840	Sum	
CLASS_2_MSG_TX	ACCUMULATION	INT8	T6235: Number of Class 2 Messages Sent by SCCP	B67109452.C67178839	Sum	
CONN_REL_EXPIRY	ACCUMULATION	INT8	T6201: Number of SCCP Connection Release Expiry	B67109452.C67178881	Sum	

CONN_REL_RLSD_MSG_RX_SSYS_FAULT	ACCUMULATION	INT8	T6205: Number of Connection Release (RLSD) Messages Received by SCCP with the Cause of Subsystem Faults	B67109452.C67178885	Sum	
CONN_REL_SCCP_INACTV_TEST_TO	ACCUMULATION	INT8	T6202: Number of SCCP Connection Releases Due to SCCP Inactivity Test Timeout	B67109452.C67178882	Sum	
CONNLESS_MSG_RX	ACCUMULATION	INT8	T6233: Number of Connectionless Messages Received by SCCP	B67109452.C67178838	Sum	
CONNLESS_MSG_TX	ACCUMULATION	INT8	T6232: Number of Connectionless Messages Sent by SCCP	B67109452.C67178837	Sum	
CR_MSG_RX	ACCUMULATION	INT8	T6237: Number of CR Messages Received by SCCP	B67109452.C73403249	Sum	
CR_MSG_TX	ACCUMULATION	INT8	T6236: Number of CR Messages Sent by SCCP	B67109452.C73403248	Sum	
CREF_MSG_RX	ACCUMULATION	INT8	T6239: Number of CREF Messages Received by SCCP	B67109452.C73403251	Sum	

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CREF_MSG_TX	ACCUMULATION	INT8	T6238: Number of CREF Messages Sent by SCCP	B67109452.C73403250	Sum	
ERR_PDU_MSG_RX	ACCUMULATION	INT8	T6214: Number of ERROR PDU Messages Received by SCCP	B67109452.C67190756	Sum	
ERR_PDU_MSG_TX	ACCUMULATION	INT8	T6215: Number of ERROR PDU Messages Sent by SCCP	B67109452.C67190757	Sum	
MSG_HDL_FR_LOCAL_REMOTE_END	ACCUMULATION	INT8	T6230: Number of Messages Handled by the SCCP from the Local or Remote End	B67109452.C67178835	Sum	
MSG_TX_TO_LOCAL_SSYS	ACCUMULATION	INT8	T6231: Number of Messages Sent by the SCCP to the Local Subsystem	B67109452.C67178836	Sum	
NSP_INIT_SCCP_CONN_REL_RX	ACCUMULATION	INT8	T6203: Number of NSP-Initiated SCCP Connection Releases Received by SCCP	B67109452.C67178883	Sum	
RATIO_OF_CREF_MSG_FR_LOCAL	INTENSITY	INT8	T6241: Ratio of the CREF Messages from the Local SCCP	B67109452.C73415659	Average	Average, Maximum, Minimum, Sum
RATIO_OF_CREF_MSG_FR_PEER	INTENSITY	INT8	T6240: Ratio of the CREF Messages from the Peer SCCP	B67109452.C73415658	Average	Average, Maximum, Minimum

						m, Sum
RLC_MSG_RX	ACCUMULATION	INT8	T6246: Number of RLC Messages Received by SCCP	B67109452.C73403256	Sum	
RLC_MSG_TX	ACCUMULATION	INT8	T6245: Number of RLC Messages Sent by SCCP	B67109452.C73403255	Sum	
RLSD_MSG_RX_AB_X_SSYS_MTP_NCONG	ACCUMULATION	INT8	T6208: Number of RLSD Messages Received by the SCCP for Other Abnormal Causes except for Subsystem Faults, MTP Faults, and Network Congestion	B67109452.C67178888	Sum	
RLSD_MSG_RX_MTP_FAULTS	ACCUMULATION	INT8	T6206: Number of RLSD Messages Received by SCCP with the Cause of MTP Faults	B67109452.C67178886	Sum	
RLSD_MSG_RX_NETWORK_CONG	ACCUMULATION	INT8	T6207: Number of RLSD Messages Received by SCCP with the Cause of Network Congestion	B67109452.C67178887	Sum	
RLSD_MSG_RX	ACCUMULATION	INT8	T6209: Number	B67109452.C671	Sum	

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_NORMAL_CAUSE	ACCUMULATION		of RLSD Messages Received by the SCCP for Normal Causes	95059		
RLSD_MSG_TX	ACCUMULATION	INT8	T6244: Number of RLSD Messages Sent by SCCP	B67109452.C73403254	Sum	
SCCP_RT_FAIL_DSP_INACCESSIBLE	ACCUMULATION	INT8	T6219: Number of SCCP Routing Failures (Destination Signaling Point Inaccessible)	B67109452.C67178896	Sum	
SCCP_RT_FAIL_SSYS_FAULT	ACCUMULATION	INT8	T6220: Number of SCCP Routing Failures (Subsystem Faults)	B67109452.C67178897	Sum	
SCCP_RT_FAIL_SSYS_UNINSTALLED	ACCUMULATION	INT8	T6221: Number of SCCP Routing Failures (Subsystem Uninstalled)	B67109452.C67178898	Sum	
SCCP_RT_FAIL_UNKNOWN_CAUSE	ACCUMULATION	INT8	T6227: Number of SCCP Routing Failures (Unknown Causes)	B67109452.C67178899	Sum	
TOT_ROUTING_FAIL	ACCUMULATION	INT8	Total Number of SCCP Routing Failures	B67109452.C67178896 + C67178897 + C67178898 + C67178899	Sum	
TOT_RX_RLSD_MSG	ACCUMULATION	INT8	Total number of RLSD Message	B67109452.C67178886 +	Sum	

			received by SCCP with Causes	C67178887 + C67178888 + C67195059		
TOT_SCCP_TX_ MSG	ACCUMULA TION	INT8	Total Number of Messages Sent by SCCP	B67109452.C671 78833 + C67178837 + C67178839 + C67190757 + C73403248 + C73403250 + C73403252 + C73403254 + C73403255	Sum	
UDTS_MSG_RX	ACCUMULA TION	INT8	T6229: Number of UDTS Messages Received by the SCCP	B67109452.C671 78834	Sum	
UDTS_MSG_TX	ACCUMULA TION	INT8	T6228: Number of UDTS Messages Sent by the SCCP	B67109452.C671 78833	Sum	
UDTS_XUDTS_ MSG_RX_SEGM_ FAIL	ACCUMULA TION	INT8	T6212: Number of UDTS and XUDTS Messages Received by SCCP with the Cause of Segmentation Failure	B67109452.C671 78891	Sum	
XUDT_SEGMEN TATION_FAIL	ACCUMULA TION	INT8	T6204: Number of SCCP XUDT segmentation Failures	B67109452.C671 78884	Sum	
XUDTS_MSG_R X_TX_ERR	ACCUMULA TION	INT8	T6211: Number of XUDTS Messages	B67109452.C671 78890	Sum	

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			Received by SCCP with the Cause of Transmission Error			
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## 7.43 SCTP\_Link Performance Indicators

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

- [SCTP\\_Link.Huawei.GSM.Link\\_utilisation](#)
- [SCTP\\_Link.Huawei.GSM.SCTP\\_IP\\_usage](#)
- [SCTP\\_Link.Huawei.GSM.Utilisation](#)

### 7.43.1 SCTP\_Link.Huawei.GSM.Link\_utilisation

KPIs related to the number of in-service duration and congestion duration of the SCTP link.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
CONG_DUR	ACCUMULATION	INT8	T6012:Congestion Duration of the SCTP Link	B67109468.C67191619	Sum	
PKT_RX	ACCUMULATION	INT8	T6015:Number of Packets Received on SCTP Link	B67109468.C73403175	Sum	
PKT_TX	ACCUMULATION	INT8	T6014:Number of Packets Sent on the SCTP Link	B67109468.C73403174	Sum	
SERVICE_DURATION	ACCUMULATION	INT8	T6011:Service Duration of the SCTP Link	B67109468.C67191618	Sum	

### 7.43.2 SCTP\_Link.Huawei.GSM.SCTP\_IP\_usage

KPIs related to the traffic on the SCTPIP link.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
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					or	tors
ERR_PKT_RX	ACCUMULATION	INT8	T6010: Number of Error Packets Received on SCTP Link	B67109469.C67184352	Sum	
IP_BYTE_RX	ACCUMULATION	INT8	T6001: Number of IP Bytes Received on the SCTP Link	B67109469.C67191610	Sum	
IP_BYTE_TX	ACCUMULATION	INT8	T6002: Number of IP Bytes Transmitted on the SCTP Link	B67109469.C67191611	Sum	
IP_PKT_RX	ACCUMULATION	INT8	T6003: Number of IP Packets Received on the SCTP Link	B67109469.C67191612	Sum	
IP_PKT_TX	ACCUMULATION	INT8	T6004: Number of IP Packets Transmitted on the SCTP Link	B67109469.C67191613	Sum	
MAX_NUM_IP_BYTE_RX	INTENSITY	FLOAT	T6005: Maximum Number of IP Bytes Received on the SCTP Link	B67109469.C67191614	Average	Sum, Minimum, Maximum
MAX_NUM_IP_BYTE_TX	INTENSITY	FLOAT	T6006: Maximum Number of IP Bytes Transmitted on the SCTP Link	B67109469.C67191615	Average	Sum, Minimum, Maximum
MAX_NUM_IP_PKT_RX	INTENSITY	FLOAT	T6008: Maximum Number of IP Packets Received on the SCTP Link	B67109469.C67191616	Average	Sum, Minimum, Maximum

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MAX_NUM_IP_PKT_TX	INTENSITY	FLOAT	T6009:Maximum Number of IP Packets Sent on the SCTP Link	B67109469.C67191617	Average	Sum, Minimum, Maximum
PKT_RETX	ACCUMULATION	INT8	T6007:Number of Packets Resent on the SCTP Link	B67109469.C67192144	Sum	

### 7.43.3 SCTP\_Link.Huawei.GSM.Utilisation

SCTP link utilisation

## 7.44 SCTPLNK\_IPLAYER Performance Indicators

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

- [SCTPLNK\\_IPLAYER.Huawei.GSM.SCTP\\_link\\_IP\\_layer](#)

### 7.44.1 SCTPLNK\_IPLAYER.Huawei.GSM.SCTP\_link\_IP\_layer

Measurement related to Sctp link IP layer

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
Average_Receive_Rate	INTENSITY	FLOAT	T7268:Average Receive Rate of an SCTP Link IP Layer	B67109485.C67194095	Average	Sum, Minimum, Maximum
Average_Transmit_Rate	INTENSITY	FLOAT	T7263:Average Transmit Rate of an SCTP Link IP Layer	B67109485.C67194092	Average	Sum, Minimum, Maximum
Maximum_Receive_Rate	INTENSITY	FLOAT	T7266:Maximum Receive Rate of an SCTP Link IP Layer	B67109485.C67194093	Average	Sum, Minimum, Maximum
Maximum_Transmit_Rate	INTENSITY	FLOAT	T7261:Maximum Transmit Rate of an SCTP Link IP Layer	B67109485.C67194090	Average	Sum, Minimum, Maximum
Minimum_Receive_Rate	INTENSITY	FLOAT	T7267:Minimum Receive Rate of an SCTP Link IP Layer	B67109485.C67194094	Average	Sum, Minimum, Maximum

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Minimum_Transmit_Rate	INTENSITY	FLOAT	T7262:Minimum Transmit Rate of an SCTP Link IP Layer	B67109485.C67194091	Average	Sum, Minimum, Maximum
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## 7.45 SDH Performance Indicators

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

- [SDH.Huawei.GSM.Utilisation](#)

### 7.45.1 SDH.Huawei.GSM.Utilisation

KPIs related to the SDH ports.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
SDH_PORT_SO_ON_COND_RQ	ACCUMULATION	INT8	T7041: Number of SDH Port Switchovers on Conditional Requests	B67109496.C67194469	Sum	
SDH_PORT_SO_ON_EXT_RQ	ACCUMULATION	INT8	T7043: Number of SDH Port Switchovers on external Requests	B67109496.C67194471	Sum	
SDH_PORT_SO_ON_K_BYTE_RQ	ACCUMULATION	INT8	T7042: Number of SDH Port Switchovers on K byte Requests	B67109496.C67194470	Sum	
SDH_PROTECTION_CHNL_FAIL	ACCUMULATION	INT8	T7044: Number of SDH Protection Channel Failures	B67109496.C67194472	Sum	
SDH_WORKING_CHNL_FAIL	ACCUMULATION	INT8	T7045: Number of SDH	B67109496.C67194473	Sum	

			Working Channel Failures			
TOT_FAIL	ACCUMULATION	INT8	Total number of SDH Channel Failures	B67109496.C67194472 + C67194473	Sum	
TOT_SWOVR_REQ	ACCUMULATION	INT8	Total number of SDH Port Switchovers Requests	B67109496.C67194469 + C67194470 + C67194471	Sum	

## 7.46 TC\_Board Performance Indicators

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

- [TC\\_Board.Huawei.GSM.Ater\\_interface\\_circuit](#)
- [TC\\_Board.Huawei.GSM.TC\\_utilisation](#)

### 7.46.1 TC\_Board.Huawei.GSM.Ater\_interface\_circuit

A-terrestrial circuit statistics

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
BS_ATER_BUSY_CIC_AVG	INTENSITY	FLOAT	AL1255:Mean Number of Busy Circuits on the Ater Interface	B1275070218.C1276870431	Average	Average, Maximum, Minimum, Sum
BS_ATER_FAIL_CIC_AVG	INTENSITY	FLOAT	AL1251:Mean Number of Faulty Circuits on the Ater Interface	B1275070218.C1276870419	Average	Average, Maximum, Minimum, Sum
BS_ATER_ID	INTENSITY	FLOAT	AL1254:Mean	B1275070218.C12	Average	Average,

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LE_CIC_AVG		T	Number of Idle Circuits on the Ater Interface	76870428		Maximum, Minimum, Sum
L1251A	ACCUMULATION	INTEGER	L1251A:	B1275070218.C1276870417	Sum	
L1251B	ACCUMULATION	INTEGER	L1251B:	B1275070218.C1276870418	Sum	
L1252A	ACCUMULATION	INTEGER	L1252A:	B1275070218.C1276870423	Sum	
L1252B	ACCUMULATION	INTEGER	L1252B:	B1275070218.C1276870424	Sum	
L1253A	ACCUMULATION	INTEGER	L1253A:	B1275070218.C1276870420	Sum	
L1253B	ACCUMULATION	INTEGER	L1253B:	B1275070218.C1276870421	Sum	
L1254A	ACCUMULATION	INTEGER	L1254A:	B1275070218.C1276870426	Sum	
L1254B	ACCUMULATION	INTEGER	L1254B:	B1275070218.C1276870427	Sum	
L1255A	ACCUMULATION	INTEGER	L1255A:	B1275070218.C1276870429	Sum	
L1255B	ACCUMULATION	INTEGER	L1255B:	B1275070218.C1276870430	Sum	
MEAN_BLK_CKT_ATER	INTENSITY	FLOAT	AL1253:Mean number of blocked circuits on the Ater interface	B1290793496.C1282423589	Average	Average, Maximum, Minimum, Sum
Mean_Blked_Ckts_on_the_Ater_Interface	INTENSITY	FLOAT	AL1253:Mean Number of Blocked Circuits on the Ater Interface	B1275070218.C1276870422	Average	Average, Maximum, Minimum, Sum
MEAN_BUSY_CKT_ATER	INTENSITY	FLOAT	AL1255:Mean number of busy circuits on the Ater interface	B1290793496.C1282423592	Average	Average, Maximum, Minimum

						m, Sum
MEAN_CKT_IN_MAINT_STATE_ATER	INTENSITY	FLOAT	AL1252:Mean number of circuits in maintenance state on the Ater interface	B1290793496.C1282423590	Average	Average, Maximum, Minimum, Sum
Mean_Ckts_maint_st_the_Ater_Iface	INTENSITY	FLOAT	AL1252:Mean Number of Circuits in Maintenance State on the Ater Interface	B1275070218.C1276870425	Average	Average, Maximum, Minimum, Sum
MEAN_FAULTY_CKT_ATER	INTENSITY	FLOAT	AL1251:Mean number of faulty circuits on the Ater interface	B1290793496.C1282423588	Average	Average, Maximum, Minimum, Sum
MEAN_IDLE_CKT_ATER	INTENSITY	FLOAT	AL1254:Mean number of idle circuits on the Ater interface	B1290793496.C1282423591	Average	Average, Maximum, Minimum, Sum
Number_of_Busy_Circuits	ACCUMULATION	INTEGER	L125AA:Number of Busy Circuits on the Ater Interface	B1290793496.C1282411312	Sum	
Number_of_Faulty_Circuits	ACCUMULATION	INTEGER	L1256A:Number of Faulty Circuits on the Ater Interface	B1290793496.C1282411304	Sum	
Number_of_Idle_Circuits	ACCUMULATION	INTEGER	L1259A:Number of Idle Circuits on the Ater Interface	B1290793496.C1282411310	Sum	
Number_of_Ma	ACCUMULATION	INTEGER	L1257A:Numb	B1290793496.C12	Sum	

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maintain_Circuits	TION	ER	er of Maintain Circuits on the Ater Interface	82411308		
Number_of_OAMBlock_Circuits	ACCUMULATION	INTEGER	L1258A: Number of OAMBlock Circuits on the Ater Interface	B1290793496.C1282411306	Sum	
Times_of_Busy_Circuits	ACCUMULATION	INTEGER	L125AB: Times of Busy Circuits on the Ater Interface	B1290793496.C1282411313	Sum	
Times_of_Faulty_Circuits	ACCUMULATION	INTEGER	L1256B: Times of Faulty Circuits on the Ater Interface	B1290793496.C1282411305	Sum	
Times_of_Idle_Circuits	ACCUMULATION	INTEGER	L1259B: Times of Idle Circuits on the Ater Interface	B1290793496.C1282411311	Sum	
Times_of_Maintain_Circuits	ACCUMULATION	INTEGER	L1257B: Times of Maintain Circuits on the Ater Interface	B1290793496.C1282411309	Sum	
Times_of_OAMBlock_Circuits	ACCUMULATION	INTEGER	L1258B: Times of OAMBlock Circuits on the Ater Interface	B1290793496.C1282411307	Sum	
TOT_ATER_FAULTY_CKT	ACCUMULATION	INTEGER	Total Number of Faulty Circuits on the Ater Interface	B1275070218.C1276870417 + C1276870420 + C1276870423 + C1276870426 + C1276870429	Sum	

#### 7.46.2 TC\_Board.Huawei.GSM.TC\_utilisation

utilisation on the TC board

KPI	Type	Data Type	Description	Derivation	Default Aggregat	Other Aggrega
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					or	tors
AR0752	INTENSITY	FLOAT	AR0752:	B1275069818.C1276470422	Average	Average, Maximum, Minimum, Sum
AR0753	INTENSITY	FLOAT	AR0753:	B1275069818.C1276470431	Average	Average, Maximum, Minimum, Sum
BS_RES_BUSY_TC_AVG	INTENSITY	FLOAT	AR0755:Mean Number of Busy TCs	B1275069818.C1276470428	Constant	Average, Maximum, Minimum, Sum
BS_RES_FAULT_TC_AVG	INTENSITY	FLOAT	AR0751:Mean Number of Faulty TCs	B1275069818.C1276470419	Average	Average, Maximum, Minimum, Sum
BS_RES_IDLE_TC_AVG	INTENSITY	FLOAT	AR0754:Mean Number of Idle TCs	B1275069818.C1276470425	Average	Average, Maximum, Minimum, Sum
R0751A	ACCUMULATION	INTEGER	R0751A: Number of Faulty TCs .Obsolete in V900R011.	round(B1275069818.C1276470417,0)	Sum	
R0751B	ACCUMULATION	INTEGER	R0751B:	B1275069818.C1276470418	Sum	
R0752A	ACCUMULATION	INTEGER	R0752A:	B1275069818.C1276470420	Sum	
R0752B	ACCUMULATION	INTEGER	R0752B:	B1275069818.C1276470421	Sum	

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R0753A	ACCUMULATION	INTEGER	R0753A:	B1275069818.C1276470429	Sum	
R0753B	ACCUMULATION	INTEGER	R0753B:	B1275069818.C1276470430	Sum	
R0754A	ACCUMULATION	INTEGER	R0754A: Number of Idle TCs .Obsolete in V900R011.	round(B1275069818.C1276470423,0)	Sum	
R0754B	ACCUMULATION	INTEGER	R0754B:	B1275069818.C1276470424	Sum	
R0755A	ACCUMULATION	INTEGER	R0755A:	B1275069818.C1276470426	Sum	
R0755B	ACCUMULATION	INTEGER	R0755B:	B1275069818.C1276470427	Sum	
TOT_TC	ACCUMULATION	INTEGER	Total Number of TCs	B1275069818.C1276470417 + C1276470420 + C1276470423 + C1276470426 + C1276470429	Sum	

## 7.47 TC\_RES Performance Indicators

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

- [TC\\_RES.Huawei.GSM.TC\\_resource\\_usage](#)

### 7.47.1 TC\_RES.Huawei.GSM.TC\_resource\_usage

Measurement used to measure the faulty, idle, busy, and prohibited TC resources.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
AVG_BUSY_TC_RES	INTENSITY	FLOAT	AR0755: Average number of busy TC resources	B1290793497.C1282423596	Average	Average, Maximum, Minimum, Sum
AVG_FAULTY	INTENSITY	FLOAT	AR0751: Average	B1290793497.C1282	Average	Average,

_TC_RES	TY	T	e number of faulty TC resources	423593		Maximum, Minimum, Sum
AVG_IDLE_TC_RES	INTENSITY	FLOAT	AR0754:Average number of idle TC resources	B1290793497.C1282423595	Average	Average, Maximum, Minimum, Sum

## 7.48 TRX Performance Indicators

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

- [TRX.Huawei.GSM.Channel\\_assignment\\_success](#)
- [TRX.Huawei.GSM.Channel\\_seizure](#)
- [TRX.Huawei.GSM.CV\\_BEP\\_in\\_EMR](#)
- [TRX.Huawei.GSM.Downlink\\_VOI](#)
- [TRX.Huawei.GSM.FER\\_measurement](#)
- [TRX.Huawei.GSM.GU\\_Power\\_Sharing](#)
- [TRX.Huawei.GSM.High\\_Order\\_Modulation\\_Pow\\_Inc](#)
- [TRX.Huawei.GSM.Interference\\_band](#)
- [TRX.Huawei.GSM.Mean\\_BEP\\_in\\_EMR\\_TCHF](#)
- [TRX.Huawei.GSM.Mean\\_BEP\\_in\\_EMR\\_TCHH](#)
- [TRX.Huawei.GSM.Nbrrcvblocks\\_in\\_EMR](#)
- [TRX.Huawei.GSM.Number\\_of\\_MRs\\_based\\_on\\_TA](#)
- [TRX.Huawei.GSM.PTRAU\\_packets](#)
- [TRX.Huawei.GSM.Radio\\_link\\_failure\\_based\\_on\\_TA](#)
- [TRX.Huawei.GSM.Radio\\_link\\_failure](#)
- [TRX.Huawei.GSM.Receive\\_quality\\_DL](#)
- [TRX.Huawei.GSM.Receive\\_quality\\_UL](#)
- [TRX.Huawei.GSM.RQI\\_based\\_on\\_ta\\_mean](#)
- [TRX.Huawei.GSM.RQI\\_based\\_on\\_ta\\_MRs](#)
- [TRX.Huawei.GSM.RQI\\_based\\_on\\_TA\\_totals](#)
- [TRX.Huawei.GSM.Rx\\_quality\\_distribution\\_DL](#)
- [TRX.Huawei.GSM.Rx\\_quality\\_distribution\\_UL](#)
- [TRX.Huawei.GSM.Rx\\_quality\\_indicator](#)
- [TRX.Huawei.GSM.TCHF\\_receive\\_level\\_DL](#)
- [TRX.Huawei.GSM.TCHF\\_receive\\_level\\_UL](#)
- [TRX.Huawei.GSM.TCHH\\_receive\\_level\\_DL](#)

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- [TRX.Huawei.GSM.TCHH\\_receive\\_level\\_UL](#)
- [TRX.Huawei.GSM.TRX\\_power](#)
- [TRX.Huawei.GSM.TRX\\_state](#)
- [TRX.Huawei.GSM.TRX\\_trans\\_packet](#)
- [TRX.Huawei.GSM.Uplinkanddownlink\\_balance](#)
- [TRX.Huawei.GSM.User\\_defined\\_MRs\\_frames](#)
- [TRX.Huawei.GSM.User\\_defined\\_MRs\\_power](#)
- [TRX.Huawei.GSM.User\\_defined\\_MRs\\_voice\\_quality](#)

### 7.48.1 TRX.Huawei.GSM.Channel\_assignment\_success

Channel assignment success

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ASS_CH_ALL OC_SUCC_FR	ACCUMULATION	INT8	R4117B:Successful Channel Assignments during Assignment (TCHF)	B1275071823.C12 78475420	Sum	hucsvbh, huctvbh
ASS_CH_ALL OC_SUCC_HR	ACCUMULATION	INT8	R4118B:Successful Channel Assignments during Assignment (TCHH)	B1275071823.C12 78475421	Sum	hucsvbh, huctvbh
CH_ALLOC_S UCC_FR	ACCUMULATION	INT8	CR4117:Successful Channel Assignments (TCHF)	B1275071823.C12 78475432	Sum	hucsvbh, huctvbh
CH_ALLOC_S UCC_HR	ACCUMULATION	INT8	CR4118:Successful Channel Assignments (TCHH)	B1275071823.C12 78475433	Sum	hucsvbh, huctvbh
CH_ALLOC_S UCC_SD	ACCUMULATION	INT8	CR4110:Successful Channel Assignments (SDCCH)	B1275071823.C12 78475431	Sum	hucsvbh, huctvbh
CH_ALLOC_S UCC_TCH	ACCUMULATION	INT8	CR4119:Successful Channel	B1275071823.C12 78475434	Sum	hucsvbh, huctvbh

			Assignments (TCH)			
IMM_ASS_CH _ALLOC_SUC C_FR	ACCUMULA TION	INT8	R4117A:Succe ssful Channel Assignments in Immediate Assignment Procedure (TCHF)	B1275071823.C12 78475418	Sum	hucsvbh, huctvbh
IMM_ASS_CH _ALLOC_SUC C_HR	ACCUMULA TION	INT8	R4118A:Succe ssful Channel Assignments in Immediate Assignment Procedure (TCHH)	B1275071823.C12 78475419	Sum	hucsvbh, huctvbh
IMM_ASS_CH _ALLOC_SUC C_SD	ACCUMULA TION	INT8	R4110A:Succe ssful Channel Assignments in Immediate Assignment Procedure (SDCCH)	B1275071823.C12 78475417	Sum	hucsvbh, huctvbh
INTERBSC_IN CELL_HO_CH _ALOC_SUC_ FR	ACCUMULA TION	INT8	R4117E:Succe ssful Channel Assignments in Incoming External Inter- Cell Handover Procedure (TCHF)	B1275071823.C12 78475429	Sum	hucsvbh, huctvbh
INTERBSC_IN CELL_HO_CH _ALOC_SUC_ HR	ACCUMULA TION	INT8	R4118E:Succe ssful Channel Assignments in Incoming External Inter- Cell Handover Procedure	B1275071823.C12 78475430	Sum	hucsvbh, huctvbh

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			(TCHH)			
INTERBSC_IN CELL_HO_CH _ALOC_SUC_ SD	ACCUMULA TION	INT8	R4110E:Succe ssful Channel Assignments in Incoming External Inter- Cell Handover Procedure (SDCCH)	B1275071823.C12 78475428	Sum	hucsvbh, huctvbh
INTRABSC_IN CELL_HO_CH _ALOC_SUC_ FR	ACCUMULA TION	INT8	R4117D:Succ essful Channel Assignments in Incoming Internal Inter- Cell Handover Procedure (TCHF)	B1275071823.C12 78475426	Sum	hucsvbh, huctvbh
INTRABSC_IN CELL_HO_CH _ALOC_SUC_ HR	ACCUMULA TION	INT8	R4118D:Succ essful Channel Assignments in Incoming Internal Inter- Cell Handover Procedure (TCHH)	B1275071823.C12 78475427	Sum	hucsvbh, huctvbh
INTRABSC_IN CELL_HO_CH _ALOC_SUC_ SD	ACCUMULA TION	INT8	R4110D:Succ essful Channel Assignments in Incoming Internal Cell Handover Procedure (SDCCH)	B1275071823.C12 78475425	Sum	hucsvbh, huctvbh
INTRACELL_ HO_CH_ALLO C_SUCC_FR	ACCUMULA TION	INT8	R4117C:Succ essful Channel Assignments in Internal Intra- Cell Handover Procedure (TCHF)	B1275071823.C12 78475423	Sum	hucsvbh, huctvbh
INTRACELL_ HO_CH_ALLO	ACCUMULA TION	INT8	R4118C:Succ essful Channel	B1275071823.C12 78475424	Sum	hucsvbh, huctvbh

C_SUCC_HR			Assignments in Internal Intra-Cell Handover Procedure (TCHH)			
INTRACELL_HO_CH_ALLO C_SUCC_SD	ACCUMULATION	INT8	R4110C:Successful Channel Assignments in Internal Intra-Cell Handover Procedure (SDCCH)	B1275071823.C12 78475422	Sum	hucsvbh, huctvbh
Succ_Local_Channel_Assign_TCHF	ACCUMULATION	INTEGER	CR411A: Number of Successful Local Channel Assignments (TCHF)	B1275071823.C12 82429888	Sum	
Succ_Local_Channel_Assign_TCHH	ACCUMULATION	INTEGER	CR411B: Number of Successful Local Channel Assignments (TCHH)	B1275071823.C12 82429889	Sum	

### 7.48.2 TRX.Huawei.GSM.Channel\_seizure

Channel seizure

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ASS_CMD_TCH	ACCUMULATION	INT8	R4419A: Attempted Assignments (TCH)	B1275071422.C127 8074421	Sum	hucsvbh, huctvbh
ASS_CMPL_TCH	ACCUMULATION	INT8	R4419B: Completed Assignments	B1275071422.C127 8074422	Sum	hucsvbh, huctvbh

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			(TCH)			
CHMD_CMD_TCH	ACCUMULATION	INT8	R4429A:Attempted Mode Modify Procedures (TCH)	B1275071422.C1278074423	Sum	hucsvbh, huctvbh
CHMD_CMPL_TCH	ACCUMULATION	INT8	R4429B:Completed Mode Modify Procedures (TCH)	B1275071422.C1278074424	Sum	hucsvbh, huctvbh
HO_CMD_SD	ACCUMULATION	INT8	R4430A:Attempted Handovers (SDCCH)	B1275071422.C1278074425	Sum	hucsvbh, huctvbh
HO_CMD_TCH	ACCUMULATION	INT8	R4439A:Attempted Handovers (TCH)	B1275071422.C1278074426	Sum	hucsvbh, huctvbh
HO_CMD	ACCUMULATION	INT8	CR443A:Attempted Handovers	B1275071422.C1278074431	Sum	hucsvbh, huctvbh
HO_CMPL_SD	ACCUMULATION	INT8	R4430B:Completed Handovers (SDCCH)	B1275071422.C1278074427	Sum	hucsvbh, huctvbh
HO_CMPL_TCH	ACCUMULATION	INT8	R4439B:Completed Handovers (TCH)	B1275071422.C1278074428	Sum	hucsvbh, huctvbh
HO_SUCC	ACCUMULATION	INT8	CR443B:Completed Handovers	B1275071422.C1278074432	Sum	hucsvbh, huctvbh
IMM_ASS_CMD_SD	ACCUMULATION	INT8	R4400A:Attempted Immediate Assignments (SDCCH)	B1275071422.C1278074417	Sum	hucsvbh, huctvbh
IMM_ASS_CMD_TCH	ACCUMULATION	INT8	R4409A:Attempted Immediate Assignments (TCH)	B1275071422.C1278074418	Sum	hucsvbh, huctvbh
IMM_ASS_SUCC_SD	ACCUMULATION	INT8	R4400B:Successful Immediate Assignments (SDCCH)	B1275071422.C1278074419	Sum	hucsvbh, huctvbh

IMM_ASS_SU CC_TCH	ACCUMULA TION	INT8	R4409B:Attemp ted Immediate Assignment Prodedures (TCH)	B1275071422.C127 8074420	Sum	hucsvbh, huctvbh
IMM_ASS_SU CC	ACCUMULA TION	INT8	CR440B:Succe ssful Immediate Assignments	B1275071422.C127 8074430	Sum	hucsvbh, huctvbh
IMM_ASS	ACCUMULA TION	INT8	CR440A:Attem pted Immediate Assignments	B1275071422.C127 8074429	Sum	hucsvbh, huctvbh

### 7.48.3 TRX.Huawei.GSM.CV\_BEP\_in\_EMR

CV\_BEP in EMR

KPI	Type	Data Type	Description	Derivation	Default Aggregat or	Other Aggrega tors
FR_NBR_CV _BEP_0	ACCUMULA TION	INT8	S4800A:Numbe r of Times the CV_BEP in the Downlink Code Streams on the TCHF Is 0	B1275071631.C127 8283417	Sum	
FR_NBR_CV _BEP_1	ACCUMULA TION	INT8	S4801A:Numbe r of Times the CV_BEP in the Downlink Code Streams on the TCHF Is 1	B1275071631.C127 8283418	Sum	
FR_NBR_CV _BEP_2	ACCUMULA TION	INT8	S4802A:Numbe r of Times the CV_BEP in the Downlink Code Streams on the TCHF Is 2	B1275071631.C127 8283419	Sum	

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FR_NBR_CV_BEP_3	ACCUMULATION	INT8	S4803A: Number of Times the CV_BEP in the Downlink Code Streams on the TCHF Is 3	B1275071631.C1278283420	Sum	
FR_NBR_CV_BEP_4	ACCUMULATION	INT8	S4804A: Number of Times the CV_BEP in the Downlink Code Streams on the TCHF Is 4	B1275071631.C1278283421	Sum	
FR_NBR_CV_BEP_5	ACCUMULATION	INT8	S4805A: Number of Times the CV_BEP in the Downlink Code Streams on the TCHF Is 5	B1275071631.C1278283422	Sum	
FR_NBR_CV_BEP_6	ACCUMULATION	INT8	S4806A: Number of Times the CV_BEP in the Downlink Code Streams on the TCHF Is 6	B1275071631.C1278283423	Sum	
FR_NBR_CV_BEP_7	ACCUMULATION	INT8	S4807A: Number of Times the CV_BEP in the Downlink Code Streams on the TCHF Is 7	B1275071631.C1278283424	Sum	
HR_NBR_CV_BEP_0	ACCUMULATION	INT8	S4800B: Number of Times the CV_BEP in the Downlink Code Streams on the TCHH Is 0	B1275071631.C1278283425	Sum	
HR_NBR_CV_BEP_1	ACCUMULATION	INT8	S4801B: Number of Times the CV_BEP in the Downlink Code Streams on the TCHH Is 1	B1275071631.C1278283426	Sum	

HR_NBR_CV_BEP_2	ACCUMULATION	INT8	S4802B: Number of Times the CV_BEP in the Downlink Code Streams on the TCHH Is 2	B1275071631.C1278283427	Sum	
HR_NBR_CV_BEP_3	ACCUMULATION	INT8	S4803B: Number of Times the CV_BEP in the Downlink Code Streams on the TCHH Is 3	B1275071631.C1278283428	Sum	
HR_NBR_CV_BEP_4	ACCUMULATION	INT8	S4804B: Number of Times the CV_BEP in the Downlink Code Streams on the TCHH Is 4	B1275071631.C1278283429	Sum	
HR_NBR_CV_BEP_5	ACCUMULATION	INT8	S4805B: Number of Times the CV_BEP in the Downlink Code Streams on the TCHH Is 5	B1275071631.C1278283430	Sum	
HR_NBR_CV_BEP_6	ACCUMULATION	INT8	S4806B: Number of Times the CV_BEP in the Downlink Code Streams on the TCHH Is 6	B1275071631.C1278283431	Sum	
HR_NBR_CV_BEP_7	ACCUMULATION	INT8	S4807B: Number of Times the CV_BEP in the Downlink Code Streams on the TCHH Is 7	B1275071631.C1278283432	Sum	

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#### 7.48.4 TRX.Huawei.GSM.Downlink\_VQI

Measurement to measure the VQI provided by the BTS when the MS provides the EMR.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
AMR_FR_AVG_DL_VQI	INTENSITY	FLOAT	T3282:AMR FR Average Downlink VQI	B1275071637.C 1278289428	Average	Sum, Minimum, Maximum
AMR_HR_AVG_DL_VQI	INTENSITY	FLOAT	T3285:AMR HR Average Downlink VQI	B1275071637.C 1278289431	Average	Sum, Minimum, Maximum
EFR_AVG_DL_VQI	INTENSITY	FLOAT	T3279:EFR Average Downlink VQI	B1275071637.C 1278289425	Average	Sum, Minimum, Maximum
FR_AVG_DL_VQI	INTENSITY	FLOAT	T3273:FR Average Downlink VQI	B1275071637.C 1278289419	Average	Sum, Minimum, Maximum
HR_AVG_DL_VQI	INTENSITY	FLOAT	T3276:HR Average Downlink VQI	B1275071637.C 1278289422	Average	Sum, Minimum, Maximum
MRS_00_05_AMR_FR	ACCUMULATION	INT8	T3316:MRs with Downlink VQI in 0.0 to 0.5 on AMR FR	B1275071637.C 1278289462	Sum	
MRS_00_05_AMR_HR	ACCUMULATION	INT8	T3326:MRs with Downlink VQI in 0.0 to 0.5 on AMR HR	B1275071637.C 1278289472	Sum	
MRS_00_05_EFR	ACCUMULATION	INT8	T3306:MRs with Downlink VQI in	B1275071637.C 1278289452	Sum	

			0.0 to 0.5 on EFR			
MRS_00_05_FR	ACCUMULATION	INT8	T3286:MRs with Downlink VQI in 0.0 to 0.5 on FR	B1275071637.C 1278289432	Sum	
MRS_00_05_HR	ACCUMULATION	INT8	T3296:MRs with Downlink VQI in 0.0 to 0.5 on HR	B1275071637.C 1278289442	Sum	
MRS_00_05_WBAMR	ACCUMULATION	INT8	T3339:MRs with Downlink VQI in 0.0 to 0.5 on WBAMR	B1275071637.C 1282411497	Sum	
MRS_05_10_AMR_FR	ACCUMULATION	INT8	T3317:MRs with Downlink VQI in 0.5 to 1.0 on AMR FR	B1275071637.C 1278289463	Sum	
MRS_05_10_AMR_HR	ACCUMULATION	INT8	T3327:MRs with Downlink VQI in 0.5 to 1.0 on AMR HR	B1275071637.C 1278289473	Sum	
MRS_05_10_EFR	ACCUMULATION	INT8	T3307:MRs with Downlink VQI in 0.5 to 1.0 on EFR	B1275071637.C 1278289453	Sum	
MRS_05_10_FR	ACCUMULATION	INT8	T3287:MRs with Downlink VQI in 0.5 to 1.0 on FR	B1275071637.C 1278289433	Sum	
MRS_05_10_HR	ACCUMULATION	INT8	T3297:MRs with Downlink VQI in 0.5 to 1.0 on HR	B1275071637.C 1278289443	Sum	
MRS_05_10_WBAMR	ACCUMULATION	INT8	T3340:MRs with Downlink VQI in 0.5 to 1.0 on WBAMR	B1275071637.C 1282411498	Sum	
MRS_10_15_AMR_FR	ACCUMULATION	INT8	T3318:MRs with Downlink VQI in 1.0 to 1.5 on AMR	B1275071637.C 1278289464	Sum	

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			FR			
MRS_10_15_AMR_HR	ACCUMULATION	INT8	T3328:MRs with Downlink VQI in 1.0 to 1.5 on AMR HR	B1275071637.C 1278289474	Sum	
MRS_10_15_EFR	ACCUMULATION	INT8	T3308:MRs with Downlink VQI in 1.0 to 1.5 on EFR	B1275071637.C 1278289454	Sum	
MRS_10_15_FR	ACCUMULATION	INT8	T3288:MRs with Downlink VQI in 1.0 to 1.5 on FR	B1275071637.C 1278289434	Sum	
MRS_10_15_HR	ACCUMULATION	INT8	T3298:MRs with Downlink VQI in 1.0 to 1.5 on HR	B1275071637.C 1278289444	Sum	
MRS_10_15_WBAMR	ACCUMULATION	INT8	T3341:MRs with Downlink VQI in 1.0 to 1.5 on WBAMR	B1275071637.C 1282411499	Sum	
MRS_15_20_AMR_FR	ACCUMULATION	INT8	T3319:MRs with Downlink VQI in 1.5 to 2.0 on AMR FR	B1275071637.C 1278289465	Sum	
MRS_15_20_AMR_HR	ACCUMULATION	INT8	T3329:MRs with Downlink VQI in 1.5 to 2.0 on AMR HR	B1275071637.C 1278289475	Sum	
MRS_15_20_EFR	ACCUMULATION	INT8	T3309:MRs with Downlink VQI in 1.5 to 2.0 on EFR	B1275071637.C 1278289455	Sum	
MRS_15_20_FR	ACCUMULATION	INT8	T3289:MRs with Downlink VQI in 1.5 to 2.0 on FR	B1275071637.C 1278289435	Sum	
MRS_15_20_HR	ACCUMULATION	INT8	T3299:MRs with Downlink VQI in 1.5 to 2.0 on HR	B1275071637.C 1278289445	Sum	
MRS_15_20_WBAMR	ACCUMULATION	INT8	T3342:MRs with Downlink VQI in 1.5 to 2.0 on WBAMR	B1275071637.C 1282411500	Sum	

MRS_20_25_AMR_FR	ACCUMULATION	INT8	T3320:MRs with Downlink VQI in 2.0 to 2.5 on AMR FR	B1275071637.C 1278289466	Sum	
MRS_20_25_AMR_HR	ACCUMULATION	INT8	T3330:MRs with Downlink VQI in 2.0 to 2.5 on AMR HR	B1275071637.C 1278289476	Sum	
MRS_20_25_EFR	ACCUMULATION	INT8	T3310:MRs with Downlink VQI in 2.0 to 2.5 on EFR	B1275071637.C 1278289456	Sum	
MRS_20_25_FR	ACCUMULATION	INT8	T3290:MRs with Downlink VQI in 2.0 to 2.5 on FR	B1275071637.C 1278289436	Sum	
MRS_20_25_HR	ACCUMULATION	INT8	T3300:MRs with Downlink VQI in 2.0 to 2.5 on HR	B1275071637.C 1278289446	Sum	
MRS_20_25_WBAMR	ACCUMULATION	INT8	T3343:MRs with Downlink VQI in 2.0 to 2.5 on WBAMR	B1275071637.C 1282411501	Sum	
MRS_25_30_AMR_FR	ACCUMULATION	INT8	T3321:MRs with Downlink VQI in 2.5 to 3.0 on AMR FR	B1275071637.C 1278289467	Sum	
MRS_25_30_AMR_HR	ACCUMULATION	INT8	T3331:MRs with Downlink VQI in 2.5 to 3.0 on AMR HR	B1275071637.C 1278289477	Sum	
MRS_25_30_EFR	ACCUMULATION	INT8	T3311:MRs with Downlink VQI in 2.5 to 3.0 on EFR	B1275071637.C 1278289457	Sum	
MRS_25_30_FR	ACCUMULATION	INT8	T3291:MRs with Downlink VQI in 2.5 to 3.0 on FR	B1275071637.C 1278289437	Sum	

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MRS_25_30_HR	ACCUMULATION	INT8	T3301:MRs with Downlink VQI in 2.5 to 3.0 on HR	B1275071637.C 1278289447	Sum	
MRS_25_30_WBAMR	ACCUMULATION	INT8	T3344:MRs with Downlink VQI in 2.5 to 3.0 on WBAMR	B1275071637.C 1282411502	Sum	
MRS_30_35_AMR_FR	ACCUMULATION	INT8	T3322:MRs with Downlink VQI in 3.0 to 3.5 on AMR FR	B1275071637.C 1278289468	Sum	
MRS_30_35_AMR_HR	ACCUMULATION	INT8	T3332:MRs with Downlink VQI in 3.0 to 3.5 on AMR HR	B1275071637.C 1278289478	Sum	
MRS_30_35_EFR	ACCUMULATION	INT8	T3312:MRs with Downlink VQI in 3.0 to 3.5 on EFR	B1275071637.C 1278289458	Sum	
MRS_30_35_FR	ACCUMULATION	INT8	T3292:MRs with Downlink VQI in 3.0 to 3.5 on FR	B1275071637.C 1278289438	Sum	
MRS_30_35_HR	ACCUMULATION	INT8	T3302:MRs with Downlink VQI in 3.0 to 3.5 on HR	B1275071637.C 1278289448	Sum	
MRS_30_35_WBAMR	ACCUMULATION	INT8	T3345:MRs with Downlink VQI in 3.0 to 3.5 on WBAMR	B1275071637.C 1282411503	Sum	
MRS_35_40_AMR_FR	ACCUMULATION	INT8	T3323:MRs with Downlink VQI in 3.5 to 4.0 on AMR FR	B1275071637.C 1278289469	Sum	
MRS_35_40_AMR_HR	ACCUMULATION	INT8	T3333:MRs with Downlink VQI in 3.5 to 4.0 on AMR HR	B1275071637.C 1278289479	Sum	
MRS_35_40_EFR	ACCUMULATION	INT8	T3313:MRs with Downlink VQI in 3.5 to 4.0 on EFR	B1275071637.C 1278289459	Sum	

MRS_35_40_FR	ACCUMULATION	INT8	T3293:MRs with Downlink VQI in 3.5 to 4.0 on FR	B1275071637.C 1278289439	Sum	
MRS_35_40_HR	ACCUMULATION	INT8	T3303:MRs with Downlink VQI in 3.5 to 4.0 on HR	B1275071637.C 1278289449	Sum	
MRS_35_40_WBAMR	ACCUMULATION	INT8	T3346:MRs with Downlink VQI in 3.5 to 4.0 on WBAMR	B1275071637.C 1282411504	Sum	
MRS_40_45_AMR_FR	ACCUMULATION	INT8	T3324:MRs with Downlink VQI in 4.0 to 4.5 on AMR FR	B1275071637.C 1278289470	Sum	
MRS_40_45_AMR_HR	ACCUMULATION	INT8	T3334:MRs with Downlink VQI in 4.0 to 4.5 on AMR HR	B1275071637.C 1278289480	Sum	
MRS_40_45_EFR	ACCUMULATION	INT8	T3314:MRs with Downlink VQI in 4.0 to 4.5 on EFR	B1275071637.C 1278289460	Sum	
MRS_40_45_FR	ACCUMULATION	INT8	T3294:MRs with Downlink VQI in 4.0 to 4.5 on FR	B1275071637.C 1278289440	Sum	
MRS_40_45_HR	ACCUMULATION	INT8	T3304:MRs with Downlink VQI in 4.0 to 4.5 on HR	B1275071637.C 1278289450	Sum	
MRS_40_45_WBAMR	ACCUMULATION	INT8	T3347:MRs with Downlink VQI in 4.0 to 4.5 on WBAMR	B1275071637.C 1282411505	Sum	
MRS_45_50_AMR_FR	ACCUMULATION	INT8	T3325:MRs with Downlink VQI in 4.5 to 5.0 on AMR FR	B1275071637.C 1278289471	Sum	

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MRS_45_50_AMR_HR	ACCUMULATION	INT8	T3335:MRs with Downlink VQI in 4.5 to 5.0 on AMR HR	B1275071637.C 1278289481	Sum	
MRS_45_50_EFR	ACCUMULATION	INT8	T3315:MRs with Downlink VQI in 4.5 to 5.0 on EFR	B1275071637.C 1278289461	Sum	
MRS_45_50_FR	ACCUMULATION	INT8	T3295:MRs with Downlink VQI in 4.5 to 5.0 on FR	B1275071637.C 1278289441	Sum	
MRS_45_50_HR	ACCUMULATION	INT8	T3305:MRs with Downlink VQI in 4.5 to 5.0 on HR	B1275071637.C 1278289451	Sum	
MRS_45_50_WBAMR	ACCUMULATION	INT8	T3348:MRs with Downlink VQI in 4.5 to 5.0 on WBAMR	B1275071637.C 1282411506	Sum	
SUM_VQIS_DL_AMR_FR_CHNL	ACCUMULATION	INT8	T3280:Sum of VQIs of Downlink AMR FR Channel	B1275071637.C 1278289426	Sum	
SUM_VQIS_DL_AMR_HR_CHNL	ACCUMULATION	INT8	T3283:Sum of VQIs of Downlink AMR HR Channel	B1275071637.C 1278289429	Sum	
SUM_VQIS_DL_EFR_CHNL	ACCUMULATION	INT8	T3277:Sum of VQIs of Downlink EFR Channel	B1275071637.C 1278289423	Sum	
SUM_VQIS_DL_FR_CHNL	ACCUMULATION	INT8	T3271:Sum of VQIs of Downlink FR Channel	B1275071637.C 1278289417	Sum	
SUM_VQIS_DL_HR_CHNL	ACCUMULATION	INT8	T3274:Sum of VQIs of Downlink HR Channel	B1275071637.C 1278289420	Sum	
TIMES_VQI_DL_AMR_FR_CHNL	ACCUMULATION	INT8	T3281:Measurement Times of the VQI of Downlink AMR FR Channel	B1275071637.C 1278289427	Sum	
TIMES_VQI_DL_AMR_HR_CHNL	ACCUMULATION	INT8	T3284:Measurement Times of the VQI of Downlink	B1275071637.C 1278289430	Sum	

			AMR HR Channel			
TIMES_VQI_DL_EFR_CHNL	ACCUMULATION	INT8	T3278:Measurement Times of the VQI of Downlink EFR Channel	B1275071637.C1278289424	Sum	
TIMES_VQI_DL_FR_CHNL	ACCUMULATION	INT8	T3272:Measurement Times of the VQI of Downlink FR Channel	B1275071637.C1278289418	Sum	
TIMES_VQI_DL_HR_CHNL	ACCUMULATION	INT8	T3275:Measurement Times of the VQI of Downlink HR Channel	B1275071637.C1278289421	Sum	
TIMES_VQI_DL_WBAMR_CHNL	ACCUMULATION	INT8	T3337:Measurement Times of the VQI of Downlink WBAMR Channel	B1275071637.C1282411496	Sum	
TRXWBAMRVQIDL	ACCUMULATION	INT8	T3336:TRX.WBAMR.VQI.DL	B1275071637.C1282411495	Sum	
WBAMR_AVG_DL_VQI	INTENSITY	FLOAT	T3338:WBAMR Average Downlink VQI	B1275071637.C1282423816	Average	Sum, Minimum, Maximum

**7.48.5 TRX.Huawei.GSM.FER\_measurement**

Measurement to measure the average frame erasion rate of the BTS in the TCHs to reflect the Um interface quality.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
AMR_FR_AC CU_FER_102	ACCUMULATION	INT8	T3232:AMR FR Accumulated FER(10.2kbps)	B1275071638.C1278290429	Sum	

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AMR_FR_AC CU_FER_122	ACCUMULA TION	INT8	T3229:AMR FR Accumulated FER(12.2kbps)	B1275071638.C127 8290426	Sum	
AMR_FR_AC CU_FER_475	ACCUMULA TION	INT8	T3250:AMR FR Accumulated FER(4.75kbps)	B1275071638.C127 8290447	Sum	
AMR_FR_AC CU_FER_515	ACCUMULA TION	INT8	T3247:AMR FR Accumulated FER(5.15kbps)	B1275071638.C127 8290444	Sum	
AMR_FR_AC CU_FER_590	ACCUMULA TION	INT8	T3244:AMR FR Accumulated FER(5.90kbps)	B1275071638.C127 8290441	Sum	
AMR_FR_AC CU_FER_670	ACCUMULA TION	INT8	T3241:AMR FR Accumulated FER(6.70kbps)	B1275071638.C127 8290438	Sum	
AMR_FR_AC CU_FER_740	ACCUMULA TION	INT8	T3238:AMR FR Accumulated FER(7.40kbps)	B1275071638.C127 8290435	Sum	
AMR_FR_AC CU_FER_795	ACCUMULA TION	INT8	T3235:AMR FR Accumulated FER(7.95kbps)	B1275071638.C127 8290432	Sum	
AMR_FR_AV G_FER_102	INTENSITY	FLOA T	T3234:AMR FR Average FER (10.2kbps )	B1275071638.C127 8290431	Average	Sum, Minimu m, Maximu m
AMR_FR_AV G_FER_122	INTENSITY	FLOA T	T3231:AMR FR Average FER (12.2kbps )	B1275071638.C127 8290428	Average	Sum, Minimu m, Maximu m
AMR_FR_AV G_FER_475	INTENSITY	FLOA T	T3252:AMR FR Average FER (4.75kbps )	B1275071638.C127 8290449	Average	Sum, Minimu m, Maximu m
AMR_FR_AV G_FER_515	INTENSITY	FLOA T	T3249:AMR FR Average FER (5.15kbps )	B1275071638.C127 8290446	Average	Sum, Minimu m, Maximu

						m
AMR_FR_AV G_FER_590	INTENSITY	FLOA T	T3246:AMR FR Average FER (5.90kbps )	B1275071638.C127 8290443	Average	Sum, Minimu m, Maximu m
AMR_FR_AV G_FER_670	INTENSITY	FLOA T	T3243:AMR FR Average FER (6.70kbps )	B1275071638.C127 8290440	Average	Sum, Minimu m, Maximu m
AMR_FR_AV G_FER_740	INTENSITY	FLOA T	T3240:AMR FR Average FER (7.40kbps )	B1275071638.C127 8290437	Average	Sum, Minimu m, Maximu m
AMR_FR_AV G_FER_795	INTENSITY	FLOA T	T3237:AMR FR Average FER (7.95kbps )	B1275071638.C127 8290434	Average	Sum, Minimu m, Maximu m
AMR_HR_AC CU_FER_475	ACCUMULA TION	INT8	T3268:AMR HR Accumulated FER(4.75kbps)	B1275071638.C127 8290465	Sum	
AMR_HR_AC CU_FER_515	ACCUMULA TION	INT8	T3265:AMR HR Accumulated FER(5.15kbps)	B1275071638.C127 8290462	Sum	
AMR_HR_AC CU_FER_590	ACCUMULA TION	INT8	T3262:AMR HR Accumulated FER(5.90kbps)	B1275071638.C127 8290459	Sum	
AMR_HR_AC CU_FER_670	ACCUMULA TION	INT8	T3259:AMR HR Accumulated	B1275071638.C127 8290456	Sum	

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			FER(6.70kbps)			
AMR_HR_AC CU_FER_740	ACCUMULA TION	INT8	T3256:AMR HR Accumulated FER(7.40kbps)	B1275071638.C127 8290453	Sum	
AMR_HR_AC CU_FER_795	ACCUMULA TION	INT8	T3253:AMR HR Accumulated FER(7.95kbps)	B1275071638.C127 8290450	Sum	
AMR_HR_AV G_FER_475	INTENSITY	FLOA T	T3270:AMR HR Average FER (4.75kbps )	B1275071638.C127 8290467	Average	Sum, Minimu m, Maximu m
AMR_HR_AV G_FER_515	INTENSITY	FLOA T	T3267:AMR HR Average FER (5.15kbps )	B1275071638.C127 8290464	Average	Sum, Minimu m, Maximu m
AMR_HR_AV G_FER_590	INTENSITY	FLOA T	T3264:AMR HR Average FER (5.90kbps )	B1275071638.C127 8290461	Average	Sum, Minimu m, Maximu m
AMR_HR_AV G_FER_670	INTENSITY	FLOA T	T3261:AMR HR Average FER (6.70kbps )	B1275071638.C127 8290458	Average	Sum, Minimu m, Maximu m
AMR_HR_AV G_FER_740	INTENSITY	FLOA T	T3258:AMR HR Average FER (7.40kbps )	B1275071638.C127 8290455	Average	Sum, Minimu m, Maximu m
AMR_HR_AV G_FER_795	INTENSITY	FLOA T	T3255:AMR HR Average FER (7.95kbps )	B1275071638.C127 8290452	Average	Sum, Minimu m, Maximu m
EFR_ACCU_	ACCUMULA	INT8	T3223:EFR	B1275071638.C127	Sum	

FER	TION		Accumulated FER	8290420		
EFR_AVG_FER	INTENSITY	FLOAT	T3225:EFR Average FER	B1275071638.C127 8290422	Average	Sum, Minimum, Maximum
FR_ACCU_FER	ACCUMULATION	INT8	T3220:FR Accumulated FER	B1275071638.C127 8290417	Sum	
FR_AVG_FER	INTENSITY	FLOAT	T3222:FR Average FER	B1275071638.C127 8290419	Average	Sum, Minimum, Maximum
HR_ACCU_FER	ACCUMULATION	INT8	T3226:HR Accumulated FER	B1275071638.C127 8290423	Sum	
HR_AVG_FER	INTENSITY	FLOAT	T3228:HR Average FER	B1275071638.C127 8290425	Average	Sum, Minimum, Maximum
MRS_AMR_FR_FER_102	ACCUMULATION	INT8	T3233:MRs with AMR FR FER (10.2kbps)	B1275071638.C127 8290430	Sum	
MRS_AMR_FR_FER_122	ACCUMULATION	INT8	T3230:MRs with AMR FR FER (12.2kbps)	B1275071638.C127 8290427	Sum	
MRS_AMR_FR_FER_475	ACCUMULATION	INT8	T3251:MRs with AMR FR FER (4.75kbps)	B1275071638.C127 8290448	Sum	
MRS_AMR_FR_FER_515	ACCUMULATION	INT8	T3248:MRs with AMR FR FER (5.15kbps)	B1275071638.C127 8290445	Sum	

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MRS_AMR_FR_FER_590	ACCUMULATION	INT8	T3245:MRs with AMR FR FER (5.90kbps)	B1275071638.C1278290442	Sum	
MRS_AMR_FR_FER_670	ACCUMULATION	INT8	T3242:MRs with AMR FR FER (6.70kbps)	B1275071638.C1278290439	Sum	
MRS_AMR_FR_FER_740	ACCUMULATION	INT8	T3239:MRs with AMR FR FER (7.40kbps)	B1275071638.C1278290436	Sum	
MRS_AMR_FR_FER_795	ACCUMULATION	INT8	T3236:MRs with AMR FR FER (7.95kbps)	B1275071638.C1278290433	Sum	
MRS_AMR_HR_FER_475	ACCUMULATION	INT8	T3269:MRs with AMR HR FER (4.75kbps)	B1275071638.C1278290466	Sum	
MRS_AMR_HR_FER_515	ACCUMULATION	INT8	T3266:MRs with AMR HR FER (5.15kbps)	B1275071638.C1278290463	Sum	
MRS_AMR_HR_FER_590	ACCUMULATION	INT8	T3263:MRs with AMR HR FER (5.90kbps)	B1275071638.C1278290460	Sum	
MRS_AMR_HR_FER_670	ACCUMULATION	INT8	T3260:MRs with AMR HR FER (6.70kbps)	B1275071638.C1278290457	Sum	
MRS_AMR_HR_FER_740	ACCUMULATION	INT8	T3257:MRs with AMR HR FER (7.40kbps)	B1275071638.C1278290454	Sum	
MRS_AMR_HR_FER_795	ACCUMULATION	INT8	T3254:MRs with AMR HR FER (7.95kbps)	B1275071638.C1278290451	Sum	
MRS_EFR_FER	ACCUMULATION	INT8	T3224:MRs with EFR FER	B1275071638.C1278290421	Sum	
MRS_FR_FER	ACCUMULATION	INT8	T3221:MRs with FR FER	B1275071638.C1278290418	Sum	
MRS_HR_FER	ACCUMULATION	INT8	T3227:MRs with HR FER	B1275071638.C1278290424	Sum	

**7.48.6 TRX.Huawei.GSM.GU\_Power\_Sharing**

GU Power Sharing Measurement for TRX

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
Avg_Power_that_GSM_Shares_UMTS	INTENSITY	FLOAT	GU1004:Average Power that GSM Shares with UMTS	B1290793465.C1282447954	Average	Sum, Minimum, Maximum
AvgRemain_SharePow_GSM_TRX	INTENSITY	FLOAT	GU1007:Average Remaining Shareable Power of a GSM TRX	B1290793465.C1282447952	Average	Sum, Minimum, Maximum
GSM_Shares_Power_UMTS	ACCUMULATION	INTEGER	GU1000:Number of Times That GSM Shares Power with UMTS	B1290793465.C1282429576	Sum	
GSM_Takes_Power_Back_from_UMTS	ACCUMULATION	INTEGER	GU1001:Number of Times That GSM Takes Power Back from UMTS	B1290793465.C1282429577	Sum	
GU_Power_Sharing_Periods	ACCUMULATION	INTEGER	GU1005:Number of GU Power Sharing Periods	B1290793465.C1282429584	Sum	
Insuf_Rate_GSM_SharePower_UMTS	INTENSITY	FLOAT	GU1010:GSM Power Insufficiency Rate After GSM Shares Power with UMTS	B1290793465.C1282447953	Average	Sum, Minimum, Maximum

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Pow_Insuf_GSM_SharePower_UMTS	ACCUMULATION	INTEGER	GU1008: Number of Times of Power Insufficiency After GSM Shares Power with UMTS	B1290793465.C1282429582	Sum	
Timeslots_GSM_SharePower_UMTS	ACCUMULATION	INTEGER	GU1009: Number of Timeslots that GSM Shares Power with UMTS	B1290793465.C1282429583	Sum	
TotDur_GSM_Shares_Power_UMTS	ACCUMULATION	INTEGER	GU1002: Total Duration That GSM Shares Power with UMTS	B1290793465.C1282429578	Sum	
TotPow_GSM_Shares_UMTS	ACCUMULATION	INTEGER	GU1003: Total Power That GSM Shares with UMTS	B1290793465.C1282429579	Sum	
TotRemain_SharePow_GSMTRX	ACCUMULATION	INTEGER	GU1006: Total Remaining Shareable Power of a GSM TRX	B1290793465.C1282429581	Sum	

#### 7.48.7 TRX.Huawei.GSM.High\_Order\_Modulation\_Pow\_Inc

High-Order Modulation Power Increase Measurement per TRX

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
Bursts_HOMP_Inc_of_04_dB	ACCUMULATION	INTEGER	HM310: Number of Bursts with High-Order Modulation Power Increase of 0.4 dB	B1290793555.C1282412286	Sum	
Bursts_HOMP_Inc_of_08_dB	ACCUMULATION	INTEGER	HM311: Number of Bursts with	B1290793555.C1282412287	Sum	

B			High-Order Modulation Power Increase of 0.8 dB			
Bursts_HOMP_Inc_of_12_d_B	ACCUMULATION	INTEGER	HM312: Number of Bursts with High-Order Modulation Power Increase of 1.2 dB	B1290793555.C1282412288	Sum	
Bursts_HOMP_Inc_of_16_d_B	ACCUMULATION	INTEGER	HM313: Number of Bursts with High-Order Modulation Power Increase of 1.6 dB	B1290793555.C1282412289	Sum	
Bursts_HOMP_Inc_of_20_d_B	ACCUMULATION	INTEGER	HM314: Number of Bursts with High-Order Modulation Power Increase of 2.0 dB	B1290793555.C1282412290	Sum	
Bursts_HOMP_Inc_of_24_d_B	ACCUMULATION	INTEGER	HM315: Number of Bursts with High-Order Modulation Power Increase of 2.4 dB	B1290793555.C1282412291	Sum	
Bursts_HOMP_Inc_of_28_d_B	ACCUMULATION	INTEGER	HM316: Number of Bursts with High-Order Modulation Power Increase of 2.8 dB	B1290793555.C1282412292	Sum	
Bursts_HOMP_Inc_of_32_d_B	ACCUMULATION	INTEGER	HM317: Number of Bursts with High-Order Modulation	B1290793555.C1282412293	Sum	

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			Power Increase of 3.2 dB			
Bursts_HOMP_Inc_of_36_dB	ACCUMULATION	INTEGER	HM318: Number of Bursts with High-Order Modulation Power Increase of 3.6 dB	B1290793555.C128 2412294	Sum	
bursts_HOMP_Incof_40dB_orAbove	ACCUMULATION	INTEGER	HM319: Number of Bursts with High-Order Modulation Power Increase of 4.0 dB or Above	B1290793555.C128 2412295	Sum	
Bursts_in_HOM_Scheme	ACCUMULATION	INTEGER	HM300: Number of Bursts in High-Order Modulation Scheme	B1290793555.C128 2412285	Sum	

#### 7.48.8 TRX.Huawei.GSM.Interference\_band

Interference per band

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
Atts_ifere_Band	ACCUMULATION	INTEGER	S422: Number of Attempts in Interference Band	B1275071618.C127 8270436	Sum	
CH_DOWN_INTFR_IND_NUM_SD	ACCUMULATION	INT8	S4210B: Downlink Interference Indication Messages (SDCCH)	B1275071618.C127 8270433	Sum	
CH_DOWN_INTFR_IND_NUM_TCH	ACCUMULATION	INT8	S4219B: Downlink Interference Indication Messages (TCH)	B1275071618.C127 8270435	Sum	

CH_IN_INTF R1_AVR_NUM_FR	INTENSITY	FLOAT	AS4207A:Mean Number of TCHF's in Interference Band 1	B1275071618.C127 8270442	Average	Average, Maximum, Minimum, Sum
CH_IN_INTF R1_AVR_NUM_HR	INTENSITY	FLOAT	AS4208A:Mean Number of TCHH's in Interference Band 1	B1275071618.C127 8270447	Average	Average, Maximum, Minimum, Sum
CH_IN_INTF R1_AVR_NUM_SD	INTENSITY	FLOAT	AS4200A:Mean Number of SDCCH's in Interference Band 1	B1275071618.C127 8270437	Average	Average, Maximum, Minimum, Sum
CH_IN_INTF R2_AVR_NUM_FR	INTENSITY	FLOAT	AS4207B:Mean Number of TCHF's in Interference Band 2	B1275071618.C127 8270443	Average	Average, Maximum, Minimum, Sum
CH_IN_INTF R2_AVR_NUM_HR	INTENSITY	FLOAT	AS4208B:Mean Number of TCHH's in Interference Band 2	B1275071618.C127 8270448	Average	Average, Maximum, Minimum, Sum
CH_IN_INTF R2_AVR_NUM_SD	INTENSITY	FLOAT	AS4200B:Mean Number of SDCCH's in Interference Band 2	B1275071618.C127 8270438	Average	Average, Maximum, Minimum, Sum
CH_IN_INTF R3_AVR_NUM_FR	INTENSITY	FLOAT	AS4207C:Mean Number of TCHF's in Interference Band 3	B1275071618.C127 8270444	Average	Average, Maximum, Minimum, Sum
CH_IN_INTF R3_AVR_NUM	INTENSITY	FLOAT	AS4208C:Mean Number of	B1275071618.C127 8270449	Average	Average, Maximum

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M_HR			TCHHs in Interference Band 3			m, Minimum, Sum
CH_IN_INTF R3_AVR_NUM_SD	INTENSITY	FLOAT	AS4200C:Mean Number of SDCCHs in Interference Band 3	B1275071618.C127 8270439	Average	Average, Maximum, Minimum, Sum
CH_IN_INTF R4_AVR_NUM_FR	INTENSITY	FLOAT	AS4207D:Mean Number of TCHF's in Interference Band 4	B1275071618.C127 8270445	Average	Average, Maximum, Minimum, Sum
CH_IN_INTF R4_AVR_NUM_HR	INTENSITY	FLOAT	AS4208D:Mean Number of TCHHs in Interference Band 4	B1275071618.C127 8270450	Average	Average, Maximum, Minimum, Sum
CH_IN_INTF R4_AVR_NUM_SD	INTENSITY	FLOAT	AS4200D:Mean Number of SDCCHs in Interference Band 4	B1275071618.C127 8270440	Average	Average, Maximum, Minimum, Sum
CH_IN_INTF R5_AVR_NUM_FR	INTENSITY	FLOAT	AS4207E:Mean Number of TCHF's in Interference Band 5	B1275071618.C127 8270446	Average	Average, Maximum, Minimum, Sum
CH_IN_INTF R5_AVR_NUM_HR	INTENSITY	FLOAT	AS4208E:Mean Number of TCHHs in Interference Band 5	B1275071618.C127 8270451	Average	Average, Maximum, Minimum, Sum
CH_IN_INTF R5_AVR_NUM_SD	INTENSITY	FLOAT	AS4200E:Mean Number of SDCCHs in Interference Band 5	B1275071618.C127 8270441	Average	Average, Maximum, Minimum, Sum
CH_UP_INTF R_IND_NUM_SD	ACCUMULATION	INT8	S4210A:Uplink Interference Indication	B1275071618.C127 8270432	Sum	

			Messages (SDCCH)			
CH_UP_INTFR_IND_NUM_TCH	ACCUMULATION	INT8	S4219A:Uplink Interference Indication Messages (TCH)	B1275071618.C127 8270434	Sum	
SDCCHs_ifere_Band_1	ACCUMULATION	INTEGER	S4200A:Number of SDCCHs in Interference Band 1	B1275071618.C127 8270417	Sum	
SDCCHs_ifere_Band_2	ACCUMULATION	INTEGER	S4200B:Number of SDCCHs in Interference Band 2	B1275071618.C127 8270418	Sum	
SDCCHs_ifere_Band_3	ACCUMULATION	INTEGER	S4200C:Number of SDCCHs in Interference Band 3	B1275071618.C127 8270419	Sum	
SDCCHs_ifere_Band_4	ACCUMULATION	INTEGER	S4200D:Number of SDCCHs in Interference Band 4	B1275071618.C127 8270420	Sum	
SDCCHs_ifere_Band_5	ACCUMULATION	INTEGER	S4200E:Number of SDCCHs in Interference Band 5	B1275071618.C127 8270421	Sum	
TCHF_s_ifere_Band_1	ACCUMULATION	INTEGER	S4207A:Number of TCHFs in Interference Band 1	B1275071618.C127 8270422	Sum	
TCHF_s_ifere_Band_2	ACCUMULATION	INTEGER	S4207B:Number of TCHFs in Interference Band 2	B1275071618.C127 8270423	Sum	
TCHF_s_ifere_	ACCUMULATION	INTEGER	S4207C:Numb	B1275071618.C127	Sum	

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Band_3	TION	ER	er of TCHFs in Interference Band 3	8270424		
TCHFs_ifere_Band_4	ACCUMULATION	INTEGER	S4207D: Number of TCHFs in Interference Band 4	B1275071618.C1278270425	Sum	
TCHFs_ifere_Band_5	ACCUMULATION	INTEGER	S4207E: Number of TCHFs in Interference Band 5	B1275071618.C1278270426	Sum	
TCHHs_ifere_Band_1	ACCUMULATION	INTEGER	S4208A: Number of TCHHs in Interference Band 1	B1275071618.C1278270427	Sum	
TCHHs_ifere_Band_2	ACCUMULATION	INTEGER	S4208B: Number of TCHHs in Interference Band 2	B1275071618.C1278270428	Sum	
TCHHs_ifere_Band_3	ACCUMULATION	INTEGER	S4208C: Number of TCHHs in Interference Band 3	B1275071618.C1278270429	Sum	
TCHHs_ifere_Band_4	ACCUMULATION	INTEGER	S4208D: Number of TCHHs in Interference Band 4	B1275071618.C1278270430	Sum	
TCHHs_ifere_Band_5	ACCUMULATION	INTEGER	S4208E: Number of TCHHs in Interference Band 5	B1275071618.C1278270431	Sum	
TOT_IFER_SDCCH	ACCUMULATION	INTEGER	Total Number of SDCCHs in Interference Band	B1275071618.C1278270417 + C1278270418 + C1278270419 + C1278270420 + C1278270421	Sum	
TOT_IFER_TCHF	ACCUMULATION	INTEGER	Total Number of TCHFs in Interference	B1275071618.C1278270422 + C1278270423 +	Sum	

			Band	C1278270424 + C1278270425 + C1278270426		
TOT_IFER_T CHH	ACCUMULA TION	INTEG ER	Total Number of TCHHs in Interference Band	B1275071618.C127 8270427 + C1278270428 + C1278270429 + C1278270430 + C1278270431	Sum	

### 7.48.9 TRX.Huawei.GSM.Mean\_BEP\_in\_EMR\_TCHF

Mean BEP in EMR on TCHF

KPI	Type	Data Type	Description	Derivation	Default Aggregat or	Other Aggrega tors
FR_MEAN_B EP_0	ACCUMULA TION	INT8	S4700A:Numbe r of Times the MEAN_BEP in the Downlink Code Streams on the TCHF Is 0	B1275071630.C127 8282417	Sum	
FR_MEAN_B EP_10	ACCUMULA TION	INT8	S4710A:Numbe r of Times the MEAN_BEP in the Downlink Code Streams on the TCHF Is 10	B1275071630.C127 8282427	Sum	
FR_MEAN_B EP_11	ACCUMULA TION	INT8	S4711A:Numbe r of Times the MEAN_BEP in the Downlink Code Streams on the TCHF Is 11	B1275071630.C127 8282428	Sum	

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FR_MEAN_BEP_12	ACCUMULATION	INT8	S4712A: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHF Is 12	B1275071630.C1278282429	Sum	
FR_MEAN_BEP_13	ACCUMULATION	INT8	S4713A: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHF Is 13	B1275071630.C1278282430	Sum	
FR_MEAN_BEP_14	ACCUMULATION	INT8	S4714A: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHF Is 14	B1275071630.C1278282431	Sum	
FR_MEAN_BEP_15	ACCUMULATION	INT8	S4715A: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHF Is 15	B1275071630.C1278282432	Sum	
FR_MEAN_BEP_16	ACCUMULATION	INT8	S4716A: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHF Is 16	B1275071630.C1278282433	Sum	
FR_MEAN_BEP_17	ACCUMULATION	INT8	S4717A: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHF Is 17	B1275071630.C1278282434	Sum	

FR_MEAN_BEP_18	ACCUMULATION	INT8	S4718A: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHF Is 18	B1275071630.C1278282435	Sum	
FR_MEAN_BEP_19	ACCUMULATION	INT8	S4719A: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHF Is 19	B1275071630.C1278282436	Sum	
FR_MEAN_BEP_1	ACCUMULATION	INT8	S4701A: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHF Is 1	B1275071630.C1278282418	Sum	
FR_MEAN_BEP_20	ACCUMULATION	INT8	S4720A: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHF Is 20	B1275071630.C1278282437	Sum	
FR_MEAN_BEP_21	ACCUMULATION	INT8	S4721A: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHF Is 21	B1275071630.C1278282438	Sum	
FR_MEAN_BEP_22	ACCUMULATION	INT8	S4722A: Number of Times the MEAN_BEP in	B1275071630.C1278282439	Sum	

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			the Downlink Code Streams on the TCHF Is 22			
FR_MEAN_BEP_23	ACCUMULATION	INT8	S4723A: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHF Is 23	B1275071630.C1278282440	Sum	
FR_MEAN_BEP_24	ACCUMULATION	INT8	S4724A: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHF Is 24	B1275071630.C1278282441	Sum	
FR_MEAN_BEP_25	ACCUMULATION	INT8	S4725A: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHF Is 25	B1275071630.C1278282442	Sum	
FR_MEAN_BEP_26	ACCUMULATION	INT8	S4726A: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHF Is 26	B1275071630.C1278282443	Sum	
FR_MEAN_BEP_27	ACCUMULATION	INT8	S4727A: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHF Is 27	B1275071630.C1278282444	Sum	
FR_MEAN_BEP_28	ACCUMULATION	INT8	S4728A: Number of Times the MEAN_BEP in	B1275071630.C1278282445	Sum	

			the Downlink Code Streams on the TCHF Is 28			
FR_MEAN_BEP_29	ACCUMULATION	INT8	S4729A: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHF Is 29	B1275071630.C1278282446	Sum	
FR_MEAN_BEP_2	ACCUMULATION	INT8	S4702A: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHF Is 2	B1275071630.C1278282419	Sum	
FR_MEAN_BEP_30	ACCUMULATION	INT8	S4730A: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHF Is 30	B1275071630.C1278282447	Sum	
FR_MEAN_BEP_31	ACCUMULATION	INT8	S4731A: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHF Is 31	B1275071630.C1278282448	Sum	
FR_MEAN_BEP_3	ACCUMULATION	INT8	S4703A: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHF Is	B1275071630.C1278282420	Sum	

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			3			
FR_MEAN_BEP_4	ACCUMULATION	INT8	S4704A: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHF Is 4	B1275071630.C1278282421	Sum	
FR_MEAN_BEP_5	ACCUMULATION	INT8	S4705A: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHF Is 5	B1275071630.C1278282422	Sum	
FR_MEAN_BEP_6	ACCUMULATION	INT8	S4706A: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHF Is 6	B1275071630.C1278282423	Sum	
FR_MEAN_BEP_7	ACCUMULATION	INT8	S4707A: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHF Is 7	B1275071630.C1278282424	Sum	
FR_MEAN_BEP_8	ACCUMULATION	INT8	S4708A: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHF Is 8	B1275071630.C1278282425	Sum	
FR_MEAN_BEP_9	ACCUMULATION	INT8	S4709A: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHF Is	B1275071630.C1278282426	Sum	

			9			
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**7.48.10TRX.Huawei.GSM.Mean\_BEP\_in\_EMR\_TCHH**

Mean BEP in EMR on TCHH

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
HR_MEAN_BEP_0	ACCUMULATION	INT8	S4700B: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHH Is 0	B1275071630.C1278282449	Sum	
HR_MEAN_BEP_10	ACCUMULATION	INT8	S4710B: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHH Is 10	B1275071630.C1278282459	Sum	
HR_MEAN_BEP_11	ACCUMULATION	INT8	S4711B: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHH Is 11	B1275071630.C1278282460	Sum	
HR_MEAN_BEP_12	ACCUMULATION	INT8	S4712B: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHH Is 12	B1275071630.C1278282461	Sum	
HR_MEAN_B	ACCUMULATION	INT8	S4713B: Numbe	B1275071630.C127	Sum	

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EP_13	TION		r of Times the MEAN_BEP in the Downlink Code Streams on the TCHH Is 13	8282462		
HR_MEAN_BEP_14	ACCUMULATION	INT8	S4714B: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHH Is 14	B1275071630.C127 8282463	Sum	
HR_MEAN_BEP_15	ACCUMULATION	INT8	S4715B: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHH Is 15	B1275071630.C127 8282464	Sum	
HR_MEAN_BEP_16	ACCUMULATION	INT8	S4716B: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHH Is 16	B1275071630.C127 8282465	Sum	
HR_MEAN_BEP_17	ACCUMULATION	INT8	S4717B: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHH Is 17	B1275071630.C127 8282466	Sum	
HR_MEAN_BEP_18	ACCUMULATION	INT8	S4718B: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHH Is 18	B1275071630.C127 8282467	Sum	
HR_MEAN_B	ACCUMULATION	INT8	S4719B: Numbe	B1275071630.C127	Sum	

EP_19	TION		r of Times the MEAN_BEP in the Downlink Code Streams on the TCHH Is 19	8282468		
HR_MEAN_BEP_1	ACCUMULATION	INT8	S4701B: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHH Is 1	B1275071630.C1278282450	Sum	
HR_MEAN_BEP_20	ACCUMULATION	INT8	S4720B: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHH Is 20	B1275071630.C1278282469	Sum	
HR_MEAN_BEP_21	ACCUMULATION	INT8	S4721B: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHH Is 21	B1275071630.C1278282470	Sum	
HR_MEAN_BEP_22	ACCUMULATION	INT8	S4722B: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHH Is 22	B1275071630.C1278282471	Sum	
HR_MEAN_BEP_23	ACCUMULATION	INT8	S4723B: Number of Times the MEAN_BEP in the Downlink	B1275071630.C1278282472	Sum	

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			Code Streams on the TCHH Is 23			
HR_MEAN_BEP_24	ACCUMULATION	INT8	S4724B: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHH Is 24	B1275071630.C1278282473	Sum	
HR_MEAN_BEP_25	ACCUMULATION	INT8	S4725B: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHH Is 25	B1275071630.C1278282474	Sum	
HR_MEAN_BEP_26	ACCUMULATION	INT8	S4726B: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHH Is 26	B1275071630.C1278282475	Sum	
HR_MEAN_BEP_27	ACCUMULATION	INT8	S4727B: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHH Is 27	B1275071630.C1278282476	Sum	
HR_MEAN_BEP_28	ACCUMULATION	INT8	S4728B: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHH Is 28	B1275071630.C1278282477	Sum	
HR_MEAN_BEP_29	ACCUMULATION	INT8	S4729B: Number of Times the MEAN_BEP in the Downlink	B1275071630.C1278282478	Sum	

			Code Streams on the TCHH Is 29			
HR_MEAN_BEP_2	ACCUMULATION	INT8	S4702B: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHH Is 2	B1275071630.C1278282451	Sum	
HR_MEAN_BEP_30	ACCUMULATION	INT8	S4730B: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHH Is 30	B1275071630.C1278282479	Sum	
HR_MEAN_BEP_31	ACCUMULATION	INT8	S4731B: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHH Is 31	B1275071630.C1278282480	Sum	
HR_MEAN_BEP_3	ACCUMULATION	INT8	S4703B: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHH Is 3	B1275071630.C1278282452	Sum	
HR_MEAN_BEP_4	ACCUMULATION	INT8	S4704B: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHH Is 4	B1275071630.C1278282453	Sum	

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HR_MEAN_BEP_5	ACCUMULATION	INT8	S4705B: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHH Is 5	B1275071630.C1278282454	Sum	
HR_MEAN_BEP_6	ACCUMULATION	INT8	S4706B: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHH Is 6	B1275071630.C1278282455	Sum	
HR_MEAN_BEP_7	ACCUMULATION	INT8	S4707B: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHH Is 7	B1275071630.C1278282456	Sum	
HR_MEAN_BEP_8	ACCUMULATION	INT8	S4708B: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHH Is 8	B1275071630.C1278282457	Sum	
HR_MEAN_BEP_9	ACCUMULATION	INT8	S4709B: Number of Times the MEAN_BEP in the Downlink Code Streams on the TCHH Is 9	B1275071630.C1278282458	Sum	

#### 7.48.11TRX.Huawei.GSM.Nbrrcvblocks\_in\_EMR

Number of Receive blocks in EMR

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
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FR_NBR_RCV_BLOCKS_0	ACCUMULATION	INT8	S4900A: Number of Times the NbrRcvBlocks in the Code Streams on the TCHF Is 0	B1275071632.C127 8284417	Sum	
FR_NBR_RCV_BLOCKS_10	ACCUMULATION	INT8	S4910A: Number of Times the NbrRcvBlocks in the Code Streams on the TCHF Is 10	B1275071632.C127 8284427	Sum	
FR_NBR_RCV_BLOCKS_11	ACCUMULATION	INT8	S4911A: Number of Times the NbrRcvBlocks in the Code Streams on the TCHF Is 11	B1275071632.C127 8284428	Sum	
FR_NBR_RCV_BLOCKS_12	ACCUMULATION	INT8	S4912A: Number of Times the NbrRcvBlocks in the Code Streams on the TCHF Is 12	B1275071632.C127 8284429	Sum	
FR_NBR_RCV_BLOCKS_13	ACCUMULATION	INT8	S4913A: Number of Times the NbrRcvBlocks in the Code Streams on the TCHF Is 13	B1275071632.C127 8284430	Sum	
FR_NBR_RCV_BLOCKS_14	ACCUMULATION	INT8	S4914A: Number of Times the NbrRcvBlocks in the Code Streams on the TCHF Is 14	B1275071632.C127 8284431	Sum	
FR_NBR_RCV_BLOCKS_15	ACCUMULATION	INT8	S4915A: Number of Times the	B1275071632.C127 8284432	Sum	

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			NbrRcvBlocks in the Code Streams on the TCHF Is 15			
FR_NBR_RCV _BLOCKS_16	ACCUMULA TION	INT8	S4916A: Number of Times the NbrRcvBlocks in the Code Streams on the TCHF Is 16	B1275071632.C127 8284433	Sum	
FR_NBR_RCV _BLOCKS_17	ACCUMULA TION	INT8	S4917A: Number of Times the NbrRcvBlocks in the Code Streams on the TCHF Is 17	B1275071632.C127 8284434	Sum	
FR_NBR_RCV _BLOCKS_18	ACCUMULA TION	INT8	S4918A: Number of Times the NbrRcvBlocks in the Code Streams on the TCHF Is 18	B1275071632.C127 8284435	Sum	
FR_NBR_RCV _BLOCKS_19	ACCUMULA TION	INT8	S4919A: Number of Times the NbrRcvBlocks in the Code Streams on the TCHF Is 19	B1275071632.C127 8284436	Sum	
FR_NBR_RCV _BLOCKS_1	ACCUMULA TION	INT8	S4901A: Number of Times the NbrRcvBlocks in the Code Streams on the TCHF Is 1	B1275071632.C127 8284418	Sum	
FR_NBR_RCV _BLOCKS_20	ACCUMULA TION	INT8	S4920A: Number of Times the NbrRcvBlocks in the Code Streams on the TCHF Is 20	B1275071632.C127 8284437	Sum	
FR_NBR_RCV	ACCUMULA	INT8	S4921A: Number	B1275071632.C127	Sum	

_BLOCKS_21	TION		of Times the NbrRcvBlocks in the Code Streams on the TCHF Is 21	8284438		
FR_NBR_RCV_BLOCKS_22	ACCUMULATION	INT8	S4922A: Number of Times the NbrRcvBlocks in the Code Streams on the TCHF Is 22	B1275071632.C127 8284439	Sum	
FR_NBR_RCV_BLOCKS_23	ACCUMULATION	INT8	S4923A: Number of Times the NbrRcvBlocks in the Code Streams on the TCHF Is 23	B1275071632.C127 8284440	Sum	
FR_NBR_RCV_BLOCKS_24	ACCUMULATION	INT8	S4924A: Number of Times the NbrRcvBlocks in the Code Streams on the TCHF Is 24	B1275071632.C127 8284441	Sum	
FR_NBR_RCV_BLOCKS_25	ACCUMULATION	INT8	S4925A: Number of Times the NbrRcvBlocks in the Code Streams on the TCHF Is 25	B1275071632.C127 8284442	Sum	
FR_NBR_RCV_BLOCKS_26	ACCUMULATION	INT8	S4926A: Number of Times the NbrRcvBlocks in the Code Streams on the TCHF Is 26	B1275071632.C127 8284443	Sum	
FR_NBR_RCV_BLOCKS_27	ACCUMULATION	INT8	S4927A: Number of Times the NbrRcvBlocks	B1275071632.C127 8284444	Sum	

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			in the Code Streams on the TCHF Is 27			
FR_NBR_RCV_BLOCKS_28	ACCUMULATION	INT8	S4928A: Number of Times the NbrRcvBlocks in the Code Streams on the TCHF Is 28	B1275071632.C1278284445	Sum	
FR_NBR_RCV_BLOCKS_29	ACCUMULATION	INT8	S4929A: Number of Times the NbrRcvBlocks in the Code Streams on the TCHF Is 29	B1275071632.C1278284446	Sum	
FR_NBR_RCV_BLOCKS_2	ACCUMULATION	INT8	S4902A: Number of Times the NbrRcvBlocks in the Code Streams on the TCHF Is 2	B1275071632.C1278284419	Sum	
FR_NBR_RCV_BLOCKS_30	ACCUMULATION	INT8	S4930A: Number of Times the NbrRcvBlocks in the Code Streams on the TCHF Is 30	B1275071632.C1278284447	Sum	
FR_NBR_RCV_BLOCKS_31	ACCUMULATION	INT8	S4931A: Number of Times the NbrRcvBlocks in the Code Streams on the TCHF Is 31	B1275071632.C1278284448	Sum	
FR_NBR_RCV_BLOCKS_3	ACCUMULATION	INT8	S4903A: Number of Times the NbrRcvBlocks in the Code Streams on the TCHF Is 3	B1275071632.C1278284420	Sum	
FR_NBR_RCV_BLOCKS_4	ACCUMULATION	INT8	S4904A: Number of Times the	B1275071632.C1278284421	Sum	

			NbrRcvBlocks in the Code Streams on the TCHF Is 4			
FR_NBR_RCV _BLOCKS_5	ACCUMULA TION	INT8	S4905A: Number of Times the NbrRcvBlocks in the Code Streams on the TCHF Is 5	B1275071632.C127 8284422	Sum	
FR_NBR_RCV _BLOCKS_6	ACCUMULA TION	INT8	S4906A: Number of Times the NbrRcvBlocks in the Code Streams on the TCHF Is 6	B1275071632.C127 8284423	Sum	
FR_NBR_RCV _BLOCKS_7	ACCUMULA TION	INT8	S4907A: Number of Times the NbrRcvBlocks in the Code Streams on the TCHF Is 7	B1275071632.C127 8284424	Sum	
FR_NBR_RCV _BLOCKS_8	ACCUMULA TION	INT8	S4908A: Number of Times the NbrRcvBlocks in the Code Streams on the TCHF Is 8	B1275071632.C127 8284425	Sum	
FR_NBR_RCV _BLOCKS_9	ACCUMULA TION	INT8	S4909A: Number of Times the NbrRcvBlocks in the Code Streams on the TCHF Is 9	B1275071632.C127 8284426	Sum	
HR_NBR_RC V_BLOCKS_0	ACCUMULA TION	INT8	S4900B: Number of Times the NbrRcvBlocks in the Code	B1275071632.C127 8284449	Sum	

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			Streams on the TCHH Is 0			
HR_NBR_RC V_BLOCKS_1 0	ACCUMULA TION	INT8	S4910B: Number of Times the NbrRcvBlocks in the Code Streams on the TCHH Is 10	B1275071632.C127 8284459	Sum	
HR_NBR_RC V_BLOCKS_1 1	ACCUMULA TION	INT8	S4911B: Number of Times the NbrRcvBlocks in the Code Streams on the TCHH Is 11	B1275071632.C127 8284460	Sum	
HR_NBR_RC V_BLOCKS_1 2	ACCUMULA TION	INT8	S4912B: Number of Times the NbrRcvBlocks in the Code Streams on the TCHH Is 12	B1275071632.C127 8284461	Sum	
HR_NBR_RC V_BLOCKS_1 3	ACCUMULA TION	INT8	S4913B: Number of Times the NbrRcvBlocks in the Code Streams on the TCHH Is 13	B1275071632.C127 8284462	Sum	
HR_NBR_RC V_BLOCKS_1 4	ACCUMULA TION	INT8	S4914B: Number of Times the NbrRcvBlocks in the Code Streams on the TCHH Is 14	B1275071632.C127 8284463	Sum	
HR_NBR_RC V_BLOCKS_1 5	ACCUMULA TION	INT8	S4915B: Number of Times the NbrRcvBlocks in the Code Streams on the TCHH Is 15	B1275071632.C127 8284464	Sum	
HR_NBR_RC V_BLOCKS_1 6	ACCUMULA TION	INT8	S4916B: Number of Times the NbrRcvBlocks	B1275071632.C127 8284465	Sum	

			in the Code Streams on the TCHH Is 16			
HR_NBR_RC V_BLOCKS_1 7	ACCUMULA TION	INT8	S4917B: Number of Times the NbrRcvBlocks in the Code Streams on the TCHH Is 17	B1275071632.C127 8284466	Sum	
HR_NBR_RC V_BLOCKS_1 8	ACCUMULA TION	INT8	S4918B: Number of Times the NbrRcvBlocks in the Code Streams on the TCHH Is 18	B1275071632.C127 8284467	Sum	
HR_NBR_RC V_BLOCKS_1 9	ACCUMULA TION	INT8	S4919B: Number of Times the NbrRcvBlocks in the Code Streams on the TCHH Is 19	B1275071632.C127 8284468	Sum	
HR_NBR_RC V_BLOCKS_1	ACCUMULA TION	INT8	S4901B: Number of Times the NbrRcvBlocks in the Code Streams on the TCHH Is 1	B1275071632.C127 8284450	Sum	
HR_NBR_RC V_BLOCKS_2 0	ACCUMULA TION	INT8	S4920B: Number of Times the NbrRcvBlocks in the Code Streams on the TCHH Is 20	B1275071632.C127 8284469	Sum	
HR_NBR_RC V_BLOCKS_2 1	ACCUMULA TION	INT8	S4921B: Number of Times the NbrRcvBlocks in the Code Streams on the	B1275071632.C127 8284470	Sum	

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			TCHH Is 21			
HR_NBR_RC V_BLOCKS_2 2	ACCUMULA TION	INT8	S4922B: Number of Times the NbrRcvBlocks in the Code Streams on the TCHH Is 22	B1275071632.C127 8284471	Sum	
HR_NBR_RC V_BLOCKS_2 3	ACCUMULA TION	INT8	S4923B: Number of Times the NbrRcvBlocks in the Code Streams on the TCHH Is 23	B1275071632.C127 8284472	Sum	
HR_NBR_RC V_BLOCKS_2 4	ACCUMULA TION	INT8	S4924B: Number of Times the NbrRcvBlocks in the Code Streams on the TCHH Is 24	B1275071632.C127 8284473	Sum	
HR_NBR_RC V_BLOCKS_2 5	ACCUMULA TION	INT8	S4925B: Number of Times the NbrRcvBlocks in the Code Streams on the TCHH Is 25	B1275071632.C127 8284474	Sum	
HR_NBR_RC V_BLOCKS_2 6	ACCUMULA TION	INT8	S4926B: Number of Times the NbrRcvBlocks in the Code Streams on the TCHH Is 26	B1275071632.C127 8284475	Sum	
HR_NBR_RC V_BLOCKS_2 7	ACCUMULA TION	INT8	S4927B: Number of Times the NbrRcvBlocks in the Code Streams on the TCHH Is 27	B1275071632.C127 8284476	Sum	
HR_NBR_RC V_BLOCKS_2 8	ACCUMULA TION	INT8	S4928B: Number of Times the NbrRcvBlocks in the Code	B1275071632.C127 8284477	Sum	

			Streams on the TCHH Is 28			
HR_NBR_RC V_BLOCKS_2 9	ACCUMULA TION	INT8	S4929B: Number of Times the NbrRcvBlocks in the Code Streams on the TCHH Is 29	B1275071632.C127 8284478	Sum	
HR_NBR_RC V_BLOCKS_2	ACCUMULA TION	INT8	S4902B: Number of Times the NbrRcvBlocks in the Code Streams on the TCHH Is 2	B1275071632.C127 8284451	Sum	
HR_NBR_RC V_BLOCKS_3 0	ACCUMULA TION	INT8	S4930B: Number of Times the NbrRcvBlocks in the Code Streams on the TCHH Is 30	B1275071632.C127 8284479	Sum	
HR_NBR_RC V_BLOCKS_3 1	ACCUMULA TION	INT8	S4931B: Number of Times the NbrRcvBlocks in the Code Streams on the TCHH Is 31	B1275071632.C127 8284480	Sum	
HR_NBR_RC V_BLOCKS_3	ACCUMULA TION	INT8	S4903B: Number of Times the NbrRcvBlocks in the Code Streams on the TCHH Is 3	B1275071632.C127 8284452	Sum	
HR_NBR_RC V_BLOCKS_4	ACCUMULA TION	INT8	S4904B: Number of Times the NbrRcvBlocks in the Code Streams on the TCHH Is 4	B1275071632.C127 8284453	Sum	

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HR_NBR_RC V_BLOCKS_5	ACCUMULA TION	INT8	S4905B: Number of Times the NbrRcvBlocks in the Code Streams on the TCHH Is 5	B1275071632.C127 8284454	Sum	
HR_NBR_RC V_BLOCKS_6	ACCUMULA TION	INT8	S4906B: Number of Times the NbrRcvBlocks in the Code Streams on the TCHH Is 6	B1275071632.C127 8284455	Sum	
HR_NBR_RC V_BLOCKS_7	ACCUMULA TION	INT8	S4907B: Number of Times the NbrRcvBlocks in the Code Streams on the TCHH Is 7	B1275071632.C127 8284456	Sum	
HR_NBR_RC V_BLOCKS_8	ACCUMULA TION	INT8	S4908B: Number of Times the NbrRcvBlocks in the Code Streams on the TCHH Is 8	B1275071632.C127 8284457	Sum	
HR_NBR_RC V_BLOCKS_9	ACCUMULA TION	INT8	S4909B: Number of Times the NbrRcvBlocks in the Code Streams on the TCHH Is 9	B1275071632.C127 8284458	Sum	

#### 7.48.12TRX.Huawei.GSM.Number\_of\_MRs\_based\_on\_TA

Number of MRs based on Timing Advance

KPI	Type	Data Type	Description	Derivation	Default Aggregat or	Other Aggrega tors
MR_NUM_B Y_TA_0	ACCUMULA TION	INT8	S4400A: Numbe r of MRs (TA = 0)	B1275071625.C127 8277417	Sum	
MR_NUM_B	ACCUMULA	INT8	S4410A: Numbe	B1275071625.C127	Sum	

Y_TA_10	TION		r of MRs (TA = 10)	8277427		
MR_NUM_B Y_TA_11	ACCUMULA TION	INT8	S4411A:Numbe r of MRs (TA = 11)	B1275071625.C127 8277428	Sum	
MR_NUM_B Y_TA_12	ACCUMULA TION	INT8	S4412A:Numbe r of MRs (TA = 12)	B1275071625.C127 8277429	Sum	
MR_NUM_B Y_TA_13	ACCUMULA TION	INT8	S4413A:Numbe r of MRs (TA = 13)	B1275071625.C127 8277430	Sum	
MR_NUM_B Y_TA_14	ACCUMULA TION	INT8	S4414A:Numbe r of MRs (TA = 14)	B1275071625.C127 8277431	Sum	
MR_NUM_B Y_TA_15	ACCUMULA TION	INT8	S4415A:Numbe r of MRs (TA = 15)	B1275071625.C127 8277432	Sum	
MR_NUM_B Y_TA_16	ACCUMULA TION	INT8	S4416A:Numbe r of MRs (TA = 16)	B1275071625.C127 8277433	Sum	
MR_NUM_B Y_TA_17	ACCUMULA TION	INT8	S4417A:Numbe r of MRs (TA = 17)	B1275071625.C127 8277434	Sum	
MR_NUM_B Y_TA_18	ACCUMULA TION	INT8	S4418A:Numbe r of MRs (TA = 18)	B1275071625.C127 8277435	Sum	
MR_NUM_B Y_TA_19	ACCUMULA TION	INT8	S4419A:Numbe r of MRs (TA = 19)	B1275071625.C127 8277436	Sum	
MR_NUM_B Y_TA_1	ACCUMULA TION	INT8	S4401A:Numbe r of MRs (TA = 1)	B1275071625.C127 8277418	Sum	
MR_NUM_B Y_TA_20	ACCUMULA TION	INT8	S4420A:Numbe r of MRs (TA = 20)	B1275071625.C127 8277437	Sum	

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MR_NUM_B Y_TA_21	ACCUMULA TION	INT8	S4421A:Numbe r of MRs (TA = 21)	B1275071625.C127 8277438	Sum	
MR_NUM_B Y_TA_22	ACCUMULA TION	INT8	S4422A:Numbe r of MRs (TA = 22)	B1275071625.C127 8277439	Sum	
MR_NUM_B Y_TA_23	ACCUMULA TION	INT8	S4423A:Numbe r of MRs (TA = 23)	B1275071625.C127 8277440	Sum	
MR_NUM_B Y_TA_24	ACCUMULA TION	INT8	S4424A:Numbe r of MRs (TA = 24)	B1275071625.C127 8277441	Sum	
MR_NUM_B Y_TA_25	ACCUMULA TION	INT8	S4425A:Numbe r of MRs (TA = 25)	B1275071625.C127 8277442	Sum	
MR_NUM_B Y_TA_26	ACCUMULA TION	INT8	S4426A:Numbe r of MRs (TA = 26)	B1275071625.C127 8277443	Sum	
MR_NUM_B Y_TA_27	ACCUMULA TION	INT8	S4427A:Numbe r of MRs (TA = 27)	B1275071625.C127 8277444	Sum	
MR_NUM_B Y_TA_28	ACCUMULA TION	INT8	S4428A:Numbe r of MRs (TA = 28)	B1275071625.C127 8277445	Sum	
MR_NUM_B Y_TA_29	ACCUMULA TION	INT8	S4429A:Numbe r of MRs (TA = 29)	B1275071625.C127 8277446	Sum	
MR_NUM_B Y_TA_2	ACCUMULA TION	INT8	S4402A:Numbe r of MRs (TA = 2)	B1275071625.C127 8277419	Sum	
MR_NUM_B Y_TA_30_TO _31	ACCUMULA TION	INT8	S4430A:Numbe r of MRs (TA = 30 or 31)	B1275071625.C127 8277447	Sum	
MR_NUM_B Y_TA_32_TO _33	ACCUMULA TION	INT8	S4432A:Numbe r of MRs (TA = 32 or 33)	B1275071625.C127 8277448	Sum	
MR_NUM_B Y_TA_34_TO	ACCUMULA TION	INT8	S4434A:Numbe r of MRs (TA =	B1275071625.C127 8277449	Sum	

_35			34 or 35)			
MR_NUM_B Y_TA_36_TO _37	ACCUMULA TION	INT8	S4436A:Numbe r of MRs (TA = 36 or 37)	B1275071625.C127 8277450	Sum	
MR_NUM_B Y_TA_38_TO _39	ACCUMULA TION	INT8	S4438A:Numbe r of MRs (TA = 38 or 39)	B1275071625.C127 8277451	Sum	
MR_NUM_B Y_TA_3	ACCUMULA TION	INT8	S4403A:Numbe r of MRs (TA = 3)	B1275071625.C127 8277420	Sum	
MR_NUM_B Y_TA_40_TO _44	ACCUMULA TION	INT8	S4440A:Numbe r of MRs (TA = 40 to 44)	B1275071625.C127 8277452	Sum	
MR_NUM_B Y_TA_45_TO _49	ACCUMULA TION	INT8	S4445A:Numbe r of MRs (TA = 45 to 49)	B1275071625.C127 8277453	Sum	
MR_NUM_B Y_TA_4	ACCUMULA TION	INT8	S4404A:Numbe r of MRs (TA = 4)	B1275071625.C127 8277421	Sum	
MR_NUM_B Y_TA_50_TO _54	ACCUMULA TION	INT8	S4450A:Numbe r of MRs (TA = 50 to 54)	B1275071625.C127 8277454	Sum	
MR_NUM_B Y_TA_55_TO _63	ACCUMULA TION	INT8	S4455A:Numbe r of MRs (TA = 55 to 63)	B1275071625.C127 8277455	Sum	
MR_NUM_B Y_TA_5	ACCUMULA TION	INT8	S4405A:Numbe r of MRs (TA = 5)	B1275071625.C127 8277422	Sum	
MR_NUM_B Y_TA_6	ACCUMULA TION	INT8	S4406A:Numbe r of MRs (TA = 6)	B1275071625.C127 8277423	Sum	
MR_NUM_B Y_TA_7	ACCUMULA TION	INT8	S4407A:Numbe r of MRs (TA = 7)	B1275071625.C127 8277424	Sum	

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MR_NUM_B Y_TA_8	ACCUMULA TION	INT8	S4408A:Numbe r of MRs (TA = 8)	B1275071625.C127 8277425	Sum	
MR_NUM_B Y_TA_9	ACCUMULA TION	INT8	S4409A:Numbe r of MRs (TA = 9)	B1275071625.C127 8277426	Sum	
MR_NUM_B Y_TA_GT_63	ACCUMULA TION	INT8	S4463A:Numbe r of MRs (TA greater than 63)	B1275071625.C127 8277456	Sum	
TOT_MR_TA	ACCUMULA TION	INT8	Total Number of MRs (TA)	B1275071625.C127 8277417 + C1278277418 + C1278277419 + C1278277420 + C1278277421 + C1278277422 + C1278277423 + C1278277424 + C1278277425 + C1278277426 + C1278277427 + C1278277428 + C1278277429 + C1278277430 + C1278277431 + C1278277432 + C1278277433 + C1278277434 + C1278277435 + C1278277436 + C1278277437 + C1278277438 + C1278277439 + C1278277440 + C1278277441 + C1278277442 + C1278277443 + C1278277444 + C1278277445 + C1278277446 + C1278277447 + C1278277448 + C1278277449 + C1278277450 +	Sum	

				C1278277451 + C1278277452 + C1278277453 + C1278277454 + C1278277455 + C1278277456		
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**7.48.13 TRX.Huawei.GSM.PTRAU\_packets**

PTRAU packets

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
GABIS_PTRAU_DISORDER_PACKETS	ACCUMULATION	INT8	L9B04: Number of Received Disorderly PTRAU Packets	B1275073018.C1279670420	Sum	
GABIS_PTRAU_RX_PTRAU_PACKETS	ACCUMULATION	INT8	L9B01: Number of Received PTRAU Packets	B1275073018.C1279670417	Sum	
GABIS_PTRAU_TX_PTRAU_PACKETS	ACCUMULATION	INT8	L9B02: Number of Sent PTRAU Packets	B1275073018.C1279670418	Sum	
GABIS_PTRAU_UPLINK_DISCARD_PKTS	ACCUMULATION	INT8	L9B03: Number of Discarded PTRAU Packets During Uplink Transmission	B1275073018.C1279670419	Sum	

**7.48.14 TRX.Huawei.GSM.Radio\_link\_failure\_based\_on\_TA**

Radio link failure based on Timing Advance

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
RL_ABNORM	ACCUMULATION	INTEG	S4400B: Radio	B1275071627.C12	Sum	

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_BY_TA_0	TION	ER	Link Failures (TA = 0)	78279417		
RL_ABNORM _BY_TA_10	ACCUMULA TION	INTEG ER	S4410B:Radio Link Failures (TA = 10)	B1275071627.C12 78279427	Sum	
RL_ABNORM _BY_TA_11	ACCUMULA TION	INTEG ER	S4411B:Radio Link Failures (TA = 11)	B1275071627.C12 78279428	Sum	
RL_ABNORM _BY_TA_12	ACCUMULA TION	INTEG ER	S4412B:Radio Link Failures (TA = 12)	B1275071627.C12 78279429	Sum	
RL_ABNORM _BY_TA_13	ACCUMULA TION	INTEG ER	S4413B:Radio Link Failures (TA = 13)	B1275071627.C12 78279430	Sum	
RL_ABNORM _BY_TA_14	ACCUMULA TION	INTEG ER	S4414B:Radio Link Failures (TA = 14)	B1275071627.C12 78279431	Sum	
RL_ABNORM _BY_TA_15	ACCUMULA TION	INTEG ER	S4415B:Radio Link Failures (TA = 15)	B1275071627.C12 78279432	Sum	
RL_ABNORM _BY_TA_16	ACCUMULA TION	INTEG ER	S4416B:Radio Link Failures (TA = 16)	B1275071627.C12 78279433	Sum	
RL_ABNORM _BY_TA_17	ACCUMULA TION	INTEG ER	S4417B:Radio Link Failures (TA = 17)	B1275071627.C12 78279434	Sum	
RL_ABNORM _BY_TA_18	ACCUMULA TION	INTEG ER	S4418B:Radio Link Failures (TA = 18)	B1275071627.C12 78279435	Sum	
RL_ABNORM _BY_TA_19	ACCUMULA TION	INTEG ER	S4419B:Radio Link Failures (TA = 19)	B1275071627.C12 78279436	Sum	
RL_ABNORM _BY_TA_1	ACCUMULA TION	INTEG ER	S4401B:Radio Link Failures (TA = 1)	B1275071627.C12 78279418	Sum	
RL_ABNORM _BY_TA_20	ACCUMULA TION	INTEG ER	S4420B:Radio Link Failures (TA = 20)	B1275071627.C12 78279437	Sum	

RL_ABNORM_BY_TA_21	ACCUMULATION	INTEGER	S4421B:Radio Link Failures (TA = 21)	B1275071627.C12 78279438	Sum	
RL_ABNORM_BY_TA_22	ACCUMULATION	INTEGER	S4422B:Radio Link Failures (TA = 22)	B1275071627.C12 78279439	Sum	
RL_ABNORM_BY_TA_23	ACCUMULATION	INTEGER	S4423B:Radio Link Failures (TA = 23)	B1275071627.C12 78279440	Sum	
RL_ABNORM_BY_TA_24	ACCUMULATION	INTEGER	S4424B:Radio Link Failures (TA = 24)	B1275071627.C12 78279441	Sum	
RL_ABNORM_BY_TA_25	ACCUMULATION	INTEGER	S4425B:Radio Link Failures (TA = 25)	B1275071627.C12 78279442	Sum	
RL_ABNORM_BY_TA_26	ACCUMULATION	INTEGER	S4426B:Radio Link Failures (TA = 26)	B1275071627.C12 78279443	Sum	
RL_ABNORM_BY_TA_27	ACCUMULATION	INTEGER	S4427B:Radio Link Failures (TA = 27)	B1275071627.C12 78279444	Sum	
RL_ABNORM_BY_TA_28	ACCUMULATION	INTEGER	S4428B:Radio Link Failures (TA = 28)	B1275071627.C12 78279445	Sum	
RL_ABNORM_BY_TA_29	ACCUMULATION	INTEGER	S4429B:Radio Link Failures (TA = 29)	B1275071627.C12 78279446	Sum	
RL_ABNORM_BY_TA_2	ACCUMULATION	INTEGER	S4402B:Radio Link Failures (TA = 2)	B1275071627.C12 78279419	Sum	
RL_ABNORM_BY_TA_30_T O_31	ACCUMULATION	INTEGER	S4430B:Radio Link Failures (TA = 30 or 31)	B1275071627.C12 78279447	Sum	
RL_ABNORM_BY_TA_32_T	ACCUMULATION	INTEGER	S4432B:Radio Link Failures	B1275071627.C12 78279448	Sum	

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O_33			(TA = 32 or 33)			
RL_ABNORM _BY_TA_34_T O_35	ACCUMULA TION	INTEG ER	S4434B:Radio Link Failures (TA = 34 or 35)	B1275071627.C12 78279449	Sum	
RL_ABNORM _BY_TA_36_T O_37	ACCUMULA TION	INTEG ER	S4436B:Radio Link Failures (TA = 36 or 37)	B1275071627.C12 78279450	Sum	
RL_ABNORM _BY_TA_38_T O_39	ACCUMULA TION	INTEG ER	S4438B:Radio Link Failures (TA = 38 or 39)	B1275071627.C12 78279451	Sum	
RL_ABNORM _BY_TA_3	ACCUMULA TION	INTEG ER	S4403B:Radio Link Failures (TA = 3)	B1275071627.C12 78279420	Sum	
RL_ABNORM _BY_TA_40_T O_44	ACCUMULA TION	INTEG ER	S4440B:Radio Link Failures (TA = 40 to 44)	B1275071627.C12 78279452	Sum	
RL_ABNORM _BY_TA_45_T O_49	ACCUMULA TION	INTEG ER	S4445B:Radio Link Failures (TA = 45 to 49)	B1275071627.C12 78279453	Sum	
RL_ABNORM _BY_TA_4	ACCUMULA TION	INTEG ER	S4404B:Radio Link Failures (TA = 4)	B1275071627.C12 78279421	Sum	
RL_ABNORM _BY_TA_50_T O_54	ACCUMULA TION	INTEG ER	S4450B:Radio Link Failures (TA = 50 to 54)	B1275071627.C12 78279454	Sum	
RL_ABNORM _BY_TA_55_T O_63	ACCUMULA TION	INTEG ER	S4455B:Radio Link Failures (TA = 55 to 63)	B1275071627.C12 78279455	Sum	
RL_ABNORM _BY_TA_5	ACCUMULA TION	INTEG ER	S4405B:Radio Link Failures (TA = 5)	B1275071627.C12 78279422	Sum	
RL_ABNORM _BY_TA_6	ACCUMULA TION	INTEG ER	S4406B:Radio Link Failures (TA = 6)	B1275071627.C12 78279423	Sum	
RL_ABNORM _BY_TA_7	ACCUMULA TION	INTEG ER	S4407B:Radio Link Failures (TA = 7)	B1275071627.C12 78279424	Sum	
RL_ABNORM	ACCUMULA	INTEG	S4408B:Radio	B1275071627.C12	Sum	

_BY_TA_8	TION	ER	Link Failures (TA = 8)	78279425		
RL_ABNORM_BY_TA_9	ACCUMULATION	INTEGRER	S4409B:Radio Link Failures (TA = 9)	B1275071627.C1278279426	Sum	
RL_ABNORM_BY_TA_GT_63	ACCUMULATION	INTEGRER	S4463B:Radio Link Failures (TA greater than 63)	B1275071627.C1278279456	Sum	

**7.48.15TRX.Huawei.GSM.Radio\_link\_failure**

Radio link failure

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
FR_DROP_DL_LEV_AVR	INTENSITY	FLOAT	AS4327D:Mean Downlink Level during Radio Link Failure (TCHF)	B1275071626.C1278278426	Average	Average, Maximum, Minimum, Sum
FR_DROP_DL_LEV	INTENSITY	INTEGER	S4327D:Downlink Level during Radio Link Failure (TCHF)	B1275071626.C1278278420	Average	Average, Maximum, Minimum, Sum
FR_DROP_DL_QLTY_AVR	INTENSITY	FLOAT	AS3337D:Mean Downlink Quality during Radio Link Failure (TCHF)	B1275071626.C1278278438	Average	Average, Maximum, Minimum, Sum
FR_DROP_DL_QLTY	ACCUMULATION	INTEGER	S4337D:Downlink Quality during Radio Link Failure (TCHF)	B1275071626.C1278278432	Sum	

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FR_DROP_TA_AVR	INTENSITY	FLOAT	AS4347D:Mean TA during Radio Link Failure (TCHF)	B1275071626.C1278278445	Average	Average, Maximum, Minimum, Sum
FR_DROP_TA	ACCUMULATION	INTEGER	S4347D:TA during Radio Link Failure (TCHF)	B1275071626.C1278278442	Sum	
FR_DROP_TOTAL_NUM	ACCUMULATION	INTEGER	S4357D:Radio Link Failures (TCHF)	B1275071626.C1278278448	Sum	
FR_DROP_UL_LEV_AVR	INTENSITY	FLOAT	AS4307D:Mean Uplink Level during Radio Link Failure (TCHF)	B1275071626.C1278278425	Average	Average, Maximum, Minimum, Sum
FR_DROP_UL_LEV	INTENSITY	INTEGER	S4307D:Uplink Level during Radio Link Failure (TCHF)	B1275071626.C1278278419	Average	Average, Maximum, Minimum, Sum
FR_DROP_UL_QLTY_AVR	INTENSITY	FLOAT	AS4317D:Mean Uplink Quality during Radio Link Failure (TCHF)	B1275071626.C1278278437	Average	Average, Maximum, Minimum, Sum
FR_DROP_UL_QLTY	ACCUMULATION	INTEGER	S4317D:Uplink Quality during Radio Link Failure (TCHF)	B1275071626.C1278278431	Sum	
HR_DROP_DL_LEV_AVR	INTENSITY	FLOAT	AS4328D:Mean Downlink Level during Radio Link Failure (TCHH)	B1275071626.C1278278428	Average	Average, Maximum, Minimum, Sum
HR_DROP_DL_LEV	INTENSITY	INTEGER	S4328D:Downlink Level during Radio Link Failure (TCHH)	B1275071626.C1278278422	Average	Average, Maximum, Minimum, Sum

HR_DROP_DL_QLTY_AVR	INTENSITY	FLOAT	AS4338D:Mean Downlink Quality during Radio Link Failure (TCHH)	B1275071626.C1278278440	Average	Average, Maximum, Minimum, Sum
HR_DROP_DL_QLTY	ACCUMULATION	INTEGER	S4338D:Downlink Quality during Radio Link Failure (TCHH)	B1275071626.C1278278434	Sum	
HR_DROP_TA_AVR	INTENSITY	FLOAT	AS4348D:Mean TA during Radio Link Failure (TCHH)	B1275071626.C1278278446	Average	Average, Maximum, Minimum, Sum
HR_DROP_TA	ACCUMULATION	INTEGER	S4348D:TA during Radio Link Failure (TCHH)	B1275071626.C1278278443	Sum	
HR_DROP_TOTAL_NUM	ACCUMULATION	INTEGER	S4358D:Radio Link Failures (TCHH)	B1275071626.C1278278449	Sum	
HR_DROP_UL_LEV_AVR	INTENSITY	FLOAT	AS4308D:Mean Uplink Level during Radio Link Failure (TCHH)	B1275071626.C1278278427	Average	Average, Maximum, Minimum, Sum
HR_DROP_UL_LEV	INTENSITY	INTEGER	S4308D:Uplink Level during Radio Link Failure (TCHH)	B1275071626.C1278278421	Average	Average, Maximum, Minimum, Sum
HR_DROP_UL_QLTY_AVR	INTENSITY	FLOAT	AS4318D:Mean Uplink Quality during Radio Link Failure (TCHH)	B1275071626.C1278278439	Average	Average, Maximum, Minimum, Sum

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HR_DROP_UL_QLTY	ACCUMULATION	INTEGER	S4318D:Uplink Quality during Radio Link Failure (TCHH)	B1275071626.C1278278433	Sum	
SD_DROP_DL_LEV_AVR	INTENSITY	FLOAT	AS4320D:Mean Downlink Level during Radio Link Failure (SDCCH)	B1275071626.C1278278424	Average	Average, Maximum, Minimum, Sum
SD_DROP_DL_LEV	INTENSITY	INTEGER	S4320D:Downlink Level during Radio Link Failure (SDCCH)	B1275071626.C1278278418	Average	Average, Maximum, Minimum, Sum
SD_DROP_DL_QLTY_AVR	INTENSITY	FLOAT	AS4330D:Mean Downlink Quality during Radio Link Failure (SDCCH)	B1275071626.C1278278436	Average	Average, Maximum, Minimum, Sum
SD_DROP_DL_QLTY	ACCUMULATION	INTEGER	S4330D:Downlink Quality during Radio Link Failure (SDCCH)	B1275071626.C1278278430	Sum	
SD_DROP_TA_AVR	INTENSITY	FLOAT	AS4340D:Mean TA during Radio Link Failure (SDCCH)	B1275071626.C1278278444	Average	Average, Maximum, Minimum, Sum
SD_DROP_TA	ACCUMULATION	INTEGER	S4340D:TA during Radio Link Failure (SDCCH)	B1275071626.C1278278441	Sum	
SD_DROP_TOTAL_NUM	ACCUMULATION	INTEGER	S4350D:Radio Link Failures (SDCCH)	B1275071626.C1278278447	Sum	
SD_DROP_UL_LEV_AVR	INTENSITY	FLOAT	AS4300D:Mean Uplink Level during Radio	B1275071626.C1278278423	Average	Average, Maximum,

			Link Failure (SDCCH)			Minimum, Sum
SD_DROP_UL_LEV	INTENSITY	INTEGER	S4300D:Uplink Level during Radio Link Failure (SDCCH)	B1275071626.C1278278417	Average	Average, Maximum, Minimum, Sum
SD_DROP_UL_QLTY_AVR	INTENSITY	FLOAT	AS4310D:Mean Uplink Quality during Radio Link Failure (SDCCH)	B1275071626.C1278278435	Average	Average, Maximum, Minimum, Sum
SD_DROP_UL_QLTY	ACCUMULATION	INTEGER	S4310D:Uplink Quality during Radio Link Failure (SDCCH)	B1275071626.C1278278429	Sum	

**7.48.16TRX.Huawei.GSM.Receive\_quality\_DL**

Receive quality on downlink

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
FR_DOWN_RX_QLTY_0_AVR	ACCUMULATION	INT8	CS410B:Number of MRs on Downlink TCHF (Mean Receive Quality Rank 0)	B1275071623.C1278275425	Sum	
FR_DOWN_RX_QLTY_1_AVR	ACCUMULATION	INT8	CS411B:Number of MRs on Downlink TCHF (Mean Receive Quality Rank 1)	B1275071623.C1278275426	Sum	

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FR_DOWN_RX_QLTY_2_AVR	ACCUMULATION	INT8	CS412B: Number of MRs on Downlink TCHF (Mean Receive Quality Rank 2)	B1275071623.C127 8275427	Sum	
FR_DOWN_RX_QLTY_3_AVR	ACCUMULATION	INT8	CS413B: Number of MRs on Downlink TCHF (Mean Receive Quality Rank 3)	B1275071623.C127 8275428	Sum	
FR_DOWN_RX_QLTY_4_AVR	ACCUMULATION	INT8	CS414B: Number of MRs on Downlink TCHF (Mean Receive Quality Rank 4)	B1275071623.C127 8275429	Sum	
FR_DOWN_RX_QLTY_5_AVR	ACCUMULATION	INT8	CS415B: Number of MRs on Downlink TCHF (Mean Receive Quality Rank 5)	B1275071623.C127 8275430	Sum	
FR_DOWN_RX_QLTY_6_AVR	ACCUMULATION	INT8	CS416B: Number of MRs on Downlink TCHF (Mean Receive Quality Rank 6)	B1275071623.C127 8275431	Sum	
FR_DOWN_RX_QLTY_7_AVR	ACCUMULATION	INT8	CS417B: Number of MRs on Downlink TCHF (Mean Receive Quality Rank 7)	B1275071623.C127 8275432	Sum	
HR_DOWN_RX_QLTY_0_AVR	ACCUMULATION	INT8	CS410D: Number of MRs on Downlink TCHH (Mean Receive Quality Rank 0)	B1275071623.C127 8275441	Sum	

HR_DOWN_RX_QLTY_1_AVR	ACCUMULATION	INT8	CS411D: Number of MRs on Downlink TCHH (Mean Receive Quality Rank 1)	B1275071623.C1278275442	Sum	
HR_DOWN_RX_QLTY_2_AVR	ACCUMULATION	INT8	CS412D: Number of MRs on Downlink TCHH (Mean Receive Quality Rank 2)	B1275071623.C1278275443	Sum	
HR_DOWN_RX_QLTY_3_AVR	ACCUMULATION	INT8	CS413D: Number of MRs on Downlink TCHH (Mean Receive Quality Rank 3)	B1275071623.C1278275444	Sum	
HR_DOWN_RX_QLTY_4_AVR	ACCUMULATION	INT8	CS414D: Number of MRs on Downlink TCHH (Mean Receive Quality Rank 4)	B1275071623.C1278275445	Sum	
HR_DOWN_RX_QLTY_5_AVR	ACCUMULATION	INT8	CS415D: Number of MRs on Downlink TCHH (Mean Receive Quality Rank 5)	B1275071623.C1278275446	Sum	
HR_DOWN_RX_QLTY_6_AVR	ACCUMULATION	INT8	CS416D: Number of MRs on Downlink TCHH (Mean Receive Quality Rank 6)	B1275071623.C1278275447	Sum	
HR_DOWN_RX_QLTY_7_AVR	ACCUMULATION	INT8	CS417D: Number of MRs on	B1275071623.C1278275448	Sum	

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VR			Downlink TCHH (Mean Receive Quality Rank 7)			
Ratio_MRs_on_DL_TCHF_rx_Qual_R0	INTENSITY	FLOAT	RS4180B:Ratio of MRs on Downlink TCHF (Receive Quality Rank 0)	B1275071623.C1278275457	Average	Average, Maximum, Minimum, Sum
Ratio_MRs_on_DL_TCHF_rx_Qual_R1	INTENSITY	FLOAT	RS4181B:Ratio of MRs on Downlink TCHF (Receive Quality Rank 1)	B1275071623.C1278275458	Average	Average, Maximum, Minimum, Sum
Ratio_MRs_on_DL_TCHF_rx_Qual_R2	INTENSITY	FLOAT	RS4182B:Ratio of MRs on Downlink TCHF (Receive Quality Rank 2)	B1275071623.C1278275459	Average	Average, Maximum, Minimum, Sum
Ratio_MRs_on_DL_TCHF_rx_Qual_R3	INTENSITY	FLOAT	RS4183B:Ratio of MRs on Downlink TCHF (Receive Quality Rank 3)	B1275071623.C1278275460	Average	Average, Maximum, Minimum, Sum
Ratio_MRs_on_DL_TCHF_rx_Qual_R4	INTENSITY	FLOAT	RS4184B:Ratio of MRs on Downlink TCHF (Receive Quality Rank 4)	B1275071623.C1278275461	Average	Average, Maximum, Minimum, Sum
Ratio_MRs_on_DL_TCHF_rx_Qual_R5	INTENSITY	FLOAT	RS4185B:Ratio of MRs on Downlink TCHF (Receive Quality Rank 5)	B1275071623.C1278275462	Average	Average, Maximum, Minimum, Sum
Ratio_MRs_on_DL_TCHF_rx_Qual_R6	INTENSITY	FLOAT	RS4186B:Ratio of MRs on Downlink TCHF (Receive Quality Rank 6)	B1275071623.C1278275463	Average	Average, Maximum, Minimum, Sum
Ratio_MRs_on_DL_TCHF_rx	INTENSITY	FLOAT	RS4187B:Ratio of MRs on	B1275071623.C1278275464	Average	Average, Maximum

_Qual_R7			Downlink TCHF (Receive Quality Rank 7)			m, Minimum, Sum
Ratio_MRs_on_DL_TCHH_rx_Qual_R0	INTENSITY	FLOAT	RS4180D:Ratio of MRs on Downlink TCHH (Receive Quality Rank 0)	B1275071623.C1278275473	Average	Average, Maximum, Minimum, Sum
Ratio_MRs_on_DL_TCHH_rx_Qual_R1	INTENSITY	FLOAT	RS4181D:Ratio of MRs on Downlink TCHH (Receive Quality Rank 1)	B1275071623.C1278275474	Average	Average, Maximum, Minimum, Sum
Ratio_MRs_on_DL_TCHH_rx_Qual_R2	INTENSITY	FLOAT	RS4182D:Ratio of MRs on Downlink TCHH (Receive Quality Rank 2)	B1275071623.C1278275475	Average	Average, Maximum, Minimum, Sum
Ratio_MRs_on_DL_TCHH_rx_Qual_R3	INTENSITY	FLOAT	RS4183D:Ratio of MRs on Downlink TCHH (Receive Quality Rank 3)	B1275071623.C1278275476	Average	Average, Maximum, Minimum, Sum
Ratio_MRs_on_DL_TCHH_rx_Qual_R4	INTENSITY	FLOAT	RS4184D:Ratio of MRs on Downlink TCHH (Receive Quality Rank 4)	B1275071623.C1278275477	Average	Average, Maximum, Minimum, Sum
Ratio_MRs_on_DL_TCHH_rx_Qual_R5	INTENSITY	FLOAT	RS4185D:Ratio of MRs on Downlink TCHH (Receive Quality Rank 5)	B1275071623.C1278275478	Average	Average, Maximum, Minimum, Sum
Ratio_MRs_on_DL_TCHH_rx_Qual_R6	INTENSITY	FLOAT	RS4186D:Ratio of MRs on Downlink TCHH (Receive	B1275071623.C1278275479	Average	Average, Maximum, Minimum

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			Quality Rank 6)			m, Sum
Ratio_MRs_on_DL_TCHH_rx_Qual_R7	INTENSITY	FLOAT	RS4187D:Ratio of MRs on Downlink TCHH (Receive Quality Rank 7)	B1275071623.C1278275480	Average	Average, Maximum, Minimum, Sum

### 7.48.17TRX.Huawei.GSM.Receive\_quality\_UL

Receive quality on uplink

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
FR_UP_RX_QUALITY_0_AVR	ACCUMULATION	INT8	CS410A: Number of MRs on Uplink TCHF (Mean Receive Quality Rank 0)	B1275071623.C1278275417	Sum	
FR_UP_RX_QUALITY_1_AVR	ACCUMULATION	INT8	CS411A: Number of MRs on Uplink TCHF (Mean Receive Quality Rank 1)	B1275071623.C1278275418	Sum	
FR_UP_RX_QUALITY_2_AVR	ACCUMULATION	INT8	CS412A: Number of MRs on Uplink TCHF (Mean Receive Quality Rank 2)	B1275071623.C1278275419	Sum	
FR_UP_RX_QUALITY_3_AVR	ACCUMULATION	INT8	CS413A: Number of MRs on Uplink TCHF (Mean Receive Quality Rank 3)	B1275071623.C1278275420	Sum	
FR_UP_RX_QUALITY_4_AVR	ACCUMULATION	INT8	CS414A: Number of MRs on Uplink TCHF (Mean Receive Quality Rank 4)	B1275071623.C1278275421	Sum	
FR_UP_RX_QUALITY_5_AVR	ACCUMULATION	INT8	CS415A: Number of MRs on	B1275071623.C1278275422	Sum	

			Uplink TCHF (Mean Receive Quality Rank 5)			
FR_UP_RX_Q LTY_6_AVR	ACCUMULA TION	INT8	CS416A:Numb er of MRs on Uplink TCHF (Mean Receive Quality Rank 6)	B1275071623.C127 8275423	Sum	
FR_UP_RX_Q LTY_7_AVR	ACCUMULA TION	INT8	CS417A:Numb er of MRs on Uplink TCHF (Mean Receive Quality Rank 7)	B1275071623.C127 8275424	Sum	
HR_UP_RX_ QLTY_0_AV R	ACCUMULA TION	INT8	CS410C:Numb er of MRs on Uplink TCHH (Mean Rank of Receive Quality 0)	B1275071623.C127 8275433	Sum	
HR_UP_RX_ QLTY_1_AV R	ACCUMULA TION	INT8	CS411C:Numb er of MRs on Uplink TCHH (Mean Receive Quality Rank 1)	B1275071623.C127 8275434	Sum	
HR_UP_RX_ QLTY_2_AV R	ACCUMULA TION	INT8	CS412C:Numb er of MRs on Uplink TCHH (Mean Receive Quality Rank 2)	B1275071623.C127 8275435	Sum	
HR_UP_RX_ QLTY_3_AV R	ACCUMULA TION	INT8	CS413C:Numb er of MRs on Uplink TCHH (Mean Receive Quality Rank 3)	B1275071623.C127 8275436	Sum	
HR_UP_RX_ QLTY_4_AV R	ACCUMULA TION	INT8	CS414C:Numb er of MRs on Uplink TCHH	B1275071623.C127 8275437	Sum	

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			(Mean Receive Quality Rank 4)			
HR_UP_RX_QLTY_5_AVR	ACCUMULATION	INT8	CS415C: Number of MRs on Uplink TCHH (Mean Receive Quality Rank 5)	B1275071623.C1278275438	Sum	
HR_UP_RX_QLTY_6_AVR	ACCUMULATION	INT8	CS416C: Number of MRs on Uplink TCHH (Mean Receive Quality Rank 6)	B1275071623.C1278275439	Sum	
HR_UP_RX_QLTY_7_AVR	ACCUMULATION	INT8	CS417C: Number of MRs on Uplink TCHH (Mean Receive Quality Rank 7)	B1275071623.C1278275440	Sum	
Ratio_MRs_on_UL_TCHF_rx_Qual_R0	INTENSITY	FLOAT	RS4180A: Ratio of MRs on Uplink TCHF (Receive Quality Rank 0)	B1275071623.C1278275449	Average	Average, Maximum, Minimum, Sum
Ratio_MRs_on_UL_TCHF_rx_Qual_R1	INTENSITY	FLOAT	RS4181A: Ratio of MRs on Uplink TCHF (Receive Quality Rank 1)	B1275071623.C1278275450	Average	Average, Maximum, Minimum, Sum
Ratio_MRs_on_UL_TCHF_rx_Qual_R2	INTENSITY	FLOAT	RS4182A: Ratio of MRs on Uplink TCHF (Receive Quality Rank 2)	B1275071623.C1278275451	Average	Average, Maximum, Minimum, Sum
Ratio_MRs_on_UL_TCHF_rx_Qual_R3	INTENSITY	FLOAT	RS4183A: Ratio of MRs on Uplink TCHF (Receive Quality Rank 3)	B1275071623.C1278275452	Average	Average, Maximum, Minimum, Sum
Ratio_MRs_on_UL_TCHF_rx_Qual_R4	INTENSITY	FLOAT	RS4184A: Ratio of MRs on Uplink TCHF (Receive	B1275071623.C1278275453	Average	Average, Maximum, Minimum

			Quality Rank 4)			m, Sum
Ratio_MRs_on_UL_TCHF_rx_Qual_R5	INTENSITY	FLOAT	RS4185A:Ratio of MRs on Uplink TCHF (Receive Quality Rank 5)	B1275071623.C1278275454	Average	Average, Maximum, Minimum, Sum
Ratio_MRs_on_UL_TCHF_rx_Qual_R6	INTENSITY	FLOAT	RS4186A:Ratio of MRs on Uplink TCHF (Receive Quality Rank 6)	B1275071623.C1278275455	Average	Average, Maximum, Minimum, Sum
Ratio_MRs_on_UL_TCHF_rx_Qual_R7	INTENSITY	FLOAT	RS4187A:Ratio of MRs on Uplink TCHF (Receive Quality Rank 7)	B1275071623.C1278275456	Average	Average, Maximum, Minimum, Sum
Ratio_MRs_on_UL_TCHH_rx_Qual_R0	INTENSITY	FLOAT	RS4180C:Ratio of MRs on Uplink TCHH (Receive Quality Rank 0)	B1275071623.C1278275465	Average	Average, Maximum, Minimum, Sum
Ratio_MRs_on_UL_TCHH_rx_Qual_R1	INTENSITY	FLOAT	RS4181C:Ratio of MRs on Uplink TCHH (Receive Quality Rank 1)	B1275071623.C1278275466	Average	Average, Maximum, Minimum, Sum
Ratio_MRs_on_UL_TCHH_rx_Qual_R2	INTENSITY	FLOAT	RS4182C:Ratio of MRs on Uplink TCHH (Receive Quality Rank 2)	B1275071623.C1278275467	Average	Average, Maximum, Minimum, Sum
Ratio_MRs_on_UL_TCHH_rx_Qual_R3	INTENSITY	FLOAT	RS4183C:Ratio of MRs on Uplink TCHH (Receive Quality Rank 3)	B1275071623.C1278275468	Average	Average, Maximum, Minimum, Sum

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Ratio_MRs_on_UL_TCHH_rx_Qual_R4	INTENSITY	FLOAT	RS4184C:Ratio of MRs on Uplink TCHH (Receive Quality Rank 4)	B1275071623.C1278275469	Average	Average, Maximum, Minimum, Sum
Ratio_MRs_on_UL_TCHH_rx_Qual_R5	INTENSITY	FLOAT	RS4185C:Ratio of MRs on Uplink TCHH (Receive Quality Rank 5)	B1275071623.C1278275470	Average	Average, Maximum, Minimum, Sum
Ratio_MRs_on_UL_TCHH_rx_Qual_R6	INTENSITY	FLOAT	RS4186C:Ratio of MRs on Uplink TCHH (Receive Quality Rank 6)	B1275071623.C1278275471	Average	Average, Maximum, Minimum, Sum
Ratio_MRs_on_UL_TCHH_rx_Qual_R7	INTENSITY	FLOAT	RS4187C:Ratio of MRs on Uplink TCHH (Receive Quality Rank 7)	B1275071623.C1278275472	Average	Average, Maximum, Minimum, Sum

#### 7.48.18TRX.Huawei.GSM.RQI\_based\_on\_ta\_mean

Receive Quality Indicator based on Timing Advance -Mean

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
RQI_NUM_BY_TA_0_AVR	INTENSITY	FLOAT	AS4400D:Mean RQI (TA = 0)	B1275071628.C1278280497	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY_TA_1_AVR	INTENSITY	FLOAT	AS4401D:Mean RQI (TA = 1)	B1275071628.C1278280498	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY_TA_10_AVR	INTENSITY	FLOAT	AS4410D:Mean RQI (TA = 10)	B1275071628.C1278280507	Average	Average, Maximum, Minimum

						m, Sum
RQI_NUM_BY _TA_11_AVR	INTENSI TY	FLOA T	AS4411D:Mean RQI (TA = 11)	B1275071628.C1278 280508	Average	Average, Maximu m, Minimu m, Sum
RQI_NUM_BY _TA_12_AVR	INTENSI TY	FLOA T	AS4412D:Mean RQI (TA = 12)	B1275071628.C1278 280509	Average	Average, Maximu m, Minimu m, Sum
RQI_NUM_BY _TA_13_AVR	INTENSI TY	FLOA T	AS4413D:Mean RQI (TA = 13)	B1275071628.C1278 280510	Average	Average, Maximu m, Minimu m, Sum
RQI_NUM_BY _TA_14_AVR	INTENSI TY	FLOA T	AS4414D:Mean RQI (TA = 14)	B1275071628.C1278 280511	Average	Average, Maximu m, Minimu m, Sum
RQI_NUM_BY _TA_15_AVR	INTENSI TY	FLOA T	AS4415D:Mean RQI (TA = 15)	B1275071628.C1278 280512	Average	Average, Maximu m, Minimu m, Sum
RQI_NUM_BY _TA_16_AVR	INTENSI TY	FLOA T	AS4416D:Mean RQI (TA = 16)	B1275071628.C1278 280513	Average	Average, Maximu m, Minimu m, Sum
RQI_NUM_BY _TA_17_AVR	INTENSI TY	FLOA T	AS4417D:Mean RQI (TA = 17)	B1275071628.C1278 280514	Average	Average, Maximu m, Minimu m, Sum

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RQI_NUM_BY _TA_18_AVR	INTENSI TY	FLOA T	AS4418D:Mean RQI (TA = 18)	B1275071628.C1278 280515	Average	Average, Maximu m, Minimu m, Sum
RQI_NUM_BY _TA_19_AVR	INTENSI TY	FLOA T	AS4419D:Mean RQI (TA = 19)	B1275071628.C1278 280516	Average	Average, Maximu m, Minimu m, Sum
RQI_NUM_BY _TA_2_AVR	INTENSI TY	FLOA T	AS4402D:Mean RQI (TA = 2)	B1275071628.C1278 280499	Average	Average, Maximu m, Minimu m, Sum
RQI_NUM_BY _TA_20_AVR	INTENSI TY	FLOA T	AS4420D:Mean RQI (TA = 20)	B1275071628.C1278 280517	Average	Average, Maximu m, Minimu m, Sum
RQI_NUM_BY _TA_21_AVR	INTENSI TY	FLOA T	AS4421D:Mean RQI (TA = 21)	B1275071628.C1278 280518	Average	Average, Maximu m, Minimu m, Sum
RQI_NUM_BY _TA_22_AVR	INTENSI TY	FLOA T	AS4422D:Mean RQI (TA = 22)	B1275071628.C1278 280519	Average	Average, Maximu m, Minimu m, Sum
RQI_NUM_BY _TA_23_AVR	INTENSI TY	FLOA T	AS4423D:Mean RQI (TA = 23)	B1275071628.C1278 280520	Average	Average, Maximu m, Minimu m, Sum
RQI_NUM_BY _TA_24_AVR	INTENSI TY	FLOA T	AS4424D:Mean RQI (TA = 24)	B1275071628.C1278 280521	Average	Average, Maximu m, Minimu m, Sum
RQI_NUM_BY	INTENSI	FLOA	AS4425D:Mean	B1275071628.C1278	Average	Average,

_TA_25_AVR	TY	T	RQI (TA = 25)	280522		Maximum, Minimum, Sum
RQI_NUM_BY_TA_26_AVR	INTENSITY	FLOAT	AS4426D:Mean RQI (TA = 26)	B1275071628.C1278 280523	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY_TA_27_AVR	INTENSITY	FLOAT	AS4427D:Mean RQI (TA = 27)	B1275071628.C1278 280524	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY_TA_28_AVR	INTENSITY	FLOAT	AS4428D:Mean RQI (TA = 28)	B1275071628.C1278 280525	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY_TA_29_AVR	INTENSITY	FLOAT	AS4429D:Mean RQI (TA = 29)	B1275071628.C1278 280526	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY_TA_3_AVR	INTENSITY	FLOAT	AS4403D:Mean RQI (TA = 3)	B1275071628.C1278 280500	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY_TA_30_TO_31_AVR	INTENSITY	FLOAT	AS4430D:Mean RQI (TA = 30 or 31)	B1275071628.C1278 280527	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY_TA_32_TO_33_AVR	INTENSITY	FLOAT	AS4432D:Mean RQI (TA = 32 or 33)	B1275071628.C1278 280528	Average	Average, Maximum,

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						Minimum, Sum
RQI_NUM_BY _TA_34_TO_3 5_AVR	INTENSI TY	FLOA T	AS4434D:Mean RQI (TA = 34 or 35)	B1275071628.C1278 280529	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY _TA_36_TO_3 7_AVR	INTENSI TY	FLOA T	AS4436D:Mean RQI (TA = 36 or 37)	B1275071628.C1278 280530	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY _TA_38_TO_3 9_AVR	INTENSI TY	FLOA T	AS4438D:Mean RQI (TA = 38 or 39)	B1275071628.C1278 280531	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY _TA_4_AVR	INTENSI TY	FLOA T	AS4404D:Mean RQI (TA = 4)	B1275071628.C1278 280501	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY _TA_40_TO_4 4_AVR	INTENSI TY	FLOA T	AS4440D:Mean RQI (TA = 40 to 44)	B1275071628.C1278 280532	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY _TA_45_TO_4 9_AVR	INTENSI TY	FLOA T	AS4445D:Mean RQI (TA = 45 to 49)	B1275071628.C1278 280533	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY _TA_5_AVR	INTENSI TY	FLOA T	AS4405D:Mean RQI (TA = 5)	B1275071628.C1278 280502	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY _TA_50_TO_5 4_AVR	INTENSI TY	FLOA T	AS4450D:Mean RQI (TA = 50 to 54)	B1275071628.C1278 280534	Average	Average, Maximum, Minimum

						m, Sum
RQI_NUM_BY_TA_55_TO_63_AVR	INTENSITY	FLOAT	AS4455D:Mean RQI (TA = 55 to 63)	B1275071628.C1278280535	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY_TA_6_AVR	INTENSITY	FLOAT	AS4406D:Mean RQI (TA = 6)	B1275071628.C1278280503	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY_TA_7_AVR	INTENSITY	FLOAT	AS4407D:Mean RQI (TA = 7)	B1275071628.C1278280504	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY_TA_8_AVR	INTENSITY	FLOAT	AS4408D:Mean RQI (TA = 8)	B1275071628.C1278280505	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY_TA_9_AVR	INTENSITY	FLOAT	AS4409D:Mean RQI (TA = 9)	B1275071628.C1278280506	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY_TA_GT_63_AVR	INTENSITY	FLOAT	AS4463D:Mean RQI (TA greater than 63)	B1275071628.C1278280536	Average	Average, Maximum, Minimum, Sum

**7.48.19TRX.Huawei.GSM.RQI\_based\_on\_ta\_MRs**

RQI based on Timing Advance MRs

KPI	Type	Data	Description	Derivation	Default	Other
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		Type			Aggregator	Aggregators
RQI_MR_NUM_BY_TA_0	ACCUMULATION	INTEGER	S4400C:MRs with RQI (TA = 0)	B1275071628.C1278280457	Sum	
RQI_MR_NUM_BY_TA_10	ACCUMULATION	INTEGER	S4410C:MRs with RQI (TA = 10)	B1275071628.C1278280467	Sum	
RQI_MR_NUM_BY_TA_11	ACCUMULATION	INTEGER	S4411C:MRs with RQI (TA = 11)	B1275071628.C1278280468	Sum	
RQI_MR_NUM_BY_TA_12	ACCUMULATION	INTEGER	S4412C:MRs with RQI (TA = 12)	B1275071628.C1278280469	Sum	
RQI_MR_NUM_BY_TA_13	ACCUMULATION	INTEGER	S4413C:MRs with RQI (TA = 13)	B1275071628.C1278280470	Sum	
RQI_MR_NUM_BY_TA_14	ACCUMULATION	INTEGER	S4414C:MRs with RQI (TA = 14)	B1275071628.C1278280471	Sum	
RQI_MR_NUM_BY_TA_15	ACCUMULATION	INTEGER	S4415C:MRs with RQI (TA = 15)	B1275071628.C1278280472	Sum	
RQI_MR_NUM_BY_TA_16	ACCUMULATION	INTEGER	S4416C:MRs with RQI (TA = 16)	B1275071628.C1278280473	Sum	
RQI_MR_NUM_BY_TA_17	ACCUMULATION	INTEGER	S4417C:MRs with RQI (TA = 17)	B1275071628.C1278280474	Sum	
RQI_MR_NUM_BY_TA_18	ACCUMULATION	INTEGER	S4418C:MRs with RQI (TA = 18)	B1275071628.C1278280475	Sum	
RQI_MR_NUM_BY_TA_19	ACCUMULATION	INTEGER	S4419C:MRs with RQI (TA = 19)	B1275071628.C1278280476	Sum	
RQI_MR_NUM_BY_TA_1	ACCUMULATION	INTEGER	S4401C:MRs with RQI (TA = 1)	B1275071628.C1278280458	Sum	

RQI_MR_NUM_BY_TA_20	ACCUMULATION	INTEGER	S4420C:MRs with RQI (TA = 20)	B1275071628.C1278280477	Sum	
RQI_MR_NUM_BY_TA_21	ACCUMULATION	INTEGER	S4421C:MRs with RQI (TA = 21)	B1275071628.C1278280478	Sum	
RQI_MR_NUM_BY_TA_22	ACCUMULATION	INTEGER	S4422C:MRs with RQI (TA = 22)	B1275071628.C1278280479	Sum	
RQI_MR_NUM_BY_TA_23	ACCUMULATION	INTEGER	S4423C:MRs with RQI (TA = 23)	B1275071628.C1278280480	Sum	
RQI_MR_NUM_BY_TA_24	ACCUMULATION	INTEGER	S4424C:MRs with RQI (TA = 24)	B1275071628.C1278280481	Sum	
RQI_MR_NUM_BY_TA_25	ACCUMULATION	INTEGER	S4425C:MRs with RQI (TA = 25)	B1275071628.C1278280482	Sum	
RQI_MR_NUM_BY_TA_26	ACCUMULATION	INTEGER	S4426C:MRs with RQI (TA = 26)	B1275071628.C1278280483	Sum	
RQI_MR_NUM_BY_TA_27	ACCUMULATION	INTEGER	S4427C:MRs with RQI (TA = 27)	B1275071628.C1278280484	Sum	
RQI_MR_NUM_BY_TA_28	ACCUMULATION	INTEGER	S4428C:MRs with RQI (TA = 28)	B1275071628.C1278280485	Sum	
RQI_MR_NUM_BY_TA_29	ACCUMULATION	INTEGER	S4429C:MRs with RQI (TA = 29)	B1275071628.C1278280486	Sum	
RQI_MR_NUM_BY_TA_2	ACCUMULATION	INTEGER	S4402C:MRs with RQI (TA = 2)	B1275071628.C1278280459	Sum	
RQI_MR_NUM_BY_TA_3	ACCUMULATION	INTEGER	S4430C:MRs with RQI (TA =	B1275071628.C1278280487	Sum	

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0_TO_31			30 or 31)			
RQI_MR_NUM_BY_TA_32_TO_33	ACCUMULATION	INTEGER	S4432C:MRs with RQI (TA = 32 or 33)	B1275071628.C1278280488	Sum	
RQI_MR_NUM_BY_TA_34_TO_35	ACCUMULATION	INTEGER	S4434C:MRs with RQI (TA = 34 or 35)	B1275071628.C1278280489	Sum	
RQI_MR_NUM_BY_TA_36_TO_37	ACCUMULATION	INTEGER	S4436C:MRs with RQI (TA = 36 or 37)	B1275071628.C1278280490	Sum	
RQI_MR_NUM_BY_TA_38_TO_39	ACCUMULATION	INTEGER	S4438C:MRs with RQI (TA = 38 or 39)	B1275071628.C1278280491	Sum	
RQI_MR_NUM_BY_TA_3	ACCUMULATION	INTEGER	S4403C:MRs with RQI (TA = 3)	B1275071628.C1278280460	Sum	
RQI_MR_NUM_BY_TA_40_TO_44	ACCUMULATION	INTEGER	S4440C:MRs with RQI (TA = 40 to 44)	B1275071628.C1278280492	Sum	
RQI_MR_NUM_BY_TA_45_TO_49	ACCUMULATION	INTEGER	S4445C:MRs with RQI (TA = 45 to 49)	B1275071628.C1278280493	Sum	
RQI_MR_NUM_BY_TA_4	ACCUMULATION	INTEGER	S4404C:MRs with RQI (TA = 4)	B1275071628.C1278280461	Sum	
RQI_MR_NUM_BY_TA_50_TO_54	ACCUMULATION	INTEGER	S4450C:MRs with RQI (TA = 50 to 54)	B1275071628.C1278280494	Sum	
RQI_MR_NUM_BY_TA_55_TO_63	ACCUMULATION	INTEGER	S4455C:MRs with RQI (TA = 55 to 63)	B1275071628.C1278280495	Sum	
RQI_MR_NUM_BY_TA_5	ACCUMULATION	INTEGER	S4405C:MRs with RQI (TA = 5)	B1275071628.C1278280462	Sum	
RQI_MR_NUM_BY_TA_6	ACCUMULATION	INTEGER	S4406C:MRs with RQI (TA = 6)	B1275071628.C1278280463	Sum	
RQI_MR_NUM	ACCUMULATION	INTEGER	S4407C:MRs	B1275071628.C127	Sum	

M_BY_TA_7	TION	ER	with RQI (TA = 7)	8280464		
RQI_MR_NUM_BY_TA_8	ACCUMULATION	INTEGER	S4408C:MRs with RQI (TA = 8)	B1275071628.C1278280465	Sum	
RQI_MR_NUM_BY_TA_9	ACCUMULATION	INTEGER	S4409C:MRs with RQI (TA = 9)	B1275071628.C1278280466	Sum	
RQI_MR_NUM_BY_TA_G_T_63	ACCUMULATION	INTEGER	S4463C:MRs with RQI (TA greater than 63)	B1275071628.C1278280496	Sum	

**7.48.20TRX.Huawei.GSM.RQI\_based\_on\_TA\_totals**

RQI based on Timing Advance totals

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
RQI_NUM_BY_TA_0	INTENSITY	INTEGER	S4400D:RQI (TA = 0)	B1275071628.C1278280417	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY_TA_10	INTENSITY	INTEGER	S4410D:RQI (TA = 10)	B1275071628.C1278280427	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY_TA_11	INTENSITY	INTEGER	S4411D:RQI (TA = 11)	B1275071628.C1278280428	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY_TA_12	INTENSITY	INTEGER	S4412D:RQI (TA = 12)	B1275071628.C1278280429	Average	Average, Maximum,

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						Minimum, Sum
RQI_NUM_BY_TA_13	INTENSITY	INTEGER	S4413D:RQI (TA = 13)	B1275071628.C1278280430	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY_TA_14	INTENSITY	INTEGER	S4414D:RQI (TA = 14)	B1275071628.C1278280431	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY_TA_15	INTENSITY	INTEGER	S4415D:RQI (TA = 15)	B1275071628.C1278280432	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY_TA_16	INTENSITY	INTEGER	S4416D:RQI (TA = 16)	B1275071628.C1278280433	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY_TA_17	INTENSITY	INTEGER	S4417D:RQI (TA = 17)	B1275071628.C1278280434	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY_TA_18	INTENSITY	INTEGER	S4418D:RQI (TA = 18)	B1275071628.C1278280435	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY_TA_19	INTENSITY	INTEGER	S4419D:RQI (TA = 19)	B1275071628.C1278280436	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY_TA_1	INTENSITY	INTEGER	S4401D:RQI (TA = 1)	B1275071628.C1278280418	Average	Average, Maximum, Minimum

						m, Sum
RQI_NUM_BY _TA_20	INTENSI TY	INTEG ER	S4420D:RQI (TA = 20)	B1275071628.C1278 280437	Average	Average, Maximu m, Minimu m, Sum
RQI_NUM_BY _TA_21	INTENSI TY	INTEG ER	S4421D:RQI (TA = 21)	B1275071628.C1278 280438	Average	Average, Maximu m, Minimu m, Sum
RQI_NUM_BY _TA_22	INTENSI TY	INTEG ER	S4422D:RQI (TA = 22)	B1275071628.C1278 280439	Average	Average, Maximu m, Minimu m, Sum
RQI_NUM_BY _TA_23	INTENSI TY	INTEG ER	S4423D:RQI (TA = 23)	B1275071628.C1278 280440	Average	Average, Maximu m, Minimu m, Sum
RQI_NUM_BY _TA_24	INTENSI TY	INTEG ER	S4424D:RQI (TA = 24)	B1275071628.C1278 280441	Average	Average, Maximu m, Minimu m, Sum
RQI_NUM_BY _TA_25	INTENSI TY	INTEG ER	S4425D:RQI (TA = 25)	B1275071628.C1278 280442	Average	Average, Maximu m, Minimu m, Sum
RQI_NUM_BY _TA_26	INTENSI TY	INTEG ER	S4426D:RQI (TA = 26)	B1275071628.C1278 280443	Average	Average, Maximu m, Minimu m, Sum

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RQI_NUM_BY _TA_27	INTENSI TY	INTEG ER	S4427D:RQI (TA = 27)	B1275071628.C1278 280444	Average	Average, Maximu m, Minimu m, Sum
RQI_NUM_BY _TA_28	INTENSI TY	INTEG ER	S4428D:RQI (TA = 28)	B1275071628.C1278 280445	Average	Average, Maximu m, Minimu m, Sum
RQI_NUM_BY _TA_29	INTENSI TY	INTEG ER	S4429D:RQI (TA = 29)	B1275071628.C1278 280446	Average	Average, Maximu m, Minimu m, Sum
RQI_NUM_BY _TA_2	INTENSI TY	INTEG ER	S4402D:RQI (TA = 2)	B1275071628.C1278 280419	Average	Average, Maximu m, Minimu m, Sum
RQI_NUM_BY _TA_30_TO_3 1	INTENSI TY	INTEG ER	S4430D:RQI (TA = 30 or 31)	B1275071628.C1278 280447	Average	Average, Maximu m, Minimu m, Sum
RQI_NUM_BY _TA_32_TO_3 3	INTENSI TY	INTEG ER	S4432D:RQI (TA = 32 or 33)	B1275071628.C1278 280448	Average	Average, Maximu m, Minimu m, Sum
RQI_NUM_BY _TA_34_TO_3 5	INTENSI TY	INTEG ER	S4434D:RQI (TA = 34 or 35)	B1275071628.C1278 280449	Average	Average, Maximu m, Minimu m, Sum
RQI_NUM_BY _TA_36_TO_3 7	INTENSI TY	INTEG ER	S4436D:RQI (TA = 36 or 37)	B1275071628.C1278 280450	Average	Average, Maximu m, Minimu m, Sum
RQI_NUM_BY	INTENSI	INTEG	S4438D:RQI	B1275071628.C1278	Average	Average,

_TA_38_TO_3 9	TY	ER	(TA = 38 or 39)	280451		Maximum, Minimum, Sum
RQI_NUM_BY _TA_3	INTENSI TY	INTEG ER	S4403D:RQI (TA = 3)	B1275071628.C1278 280420	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY _TA_40_TO_4 4	INTENSI TY	INTEG ER	S4440D:RQI (TA = 40 to 44)	B1275071628.C1278 280452	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY _TA_45_TO_4 9	INTENSI TY	INTEG ER	S4445D:RQI (TA = 45 to 49)	B1275071628.C1278 280453	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY _TA_4	INTENSI TY	INTEG ER	S4404D:RQI (TA = 4)	B1275071628.C1278 280421	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY _TA_50_TO_5 4	INTENSI TY	INTEG ER	S4450D:RQI (TA = 50 to 54)	B1275071628.C1278 280454	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY _TA_55_TO_6 3	INTENSI TY	INTEG ER	S4455D:RQI (TA = 55 to 63)	B1275071628.C1278 280455	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY _TA_5	INTENSI TY	INTEG ER	S4405D:RQI (TA = 5)	B1275071628.C1278 280422	Average	Average, Maximum, Sum

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						Minimum, Sum
RQI_NUM_BY_TA_6	INTENSITY	INTEGER	S4406D:RQI (TA = 6)	B1275071628.C1278280423	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY_TA_7	INTENSITY	INTEGER	S4407D:RQI (TA = 7)	B1275071628.C1278280424	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY_TA_8	INTENSITY	INTEGER	S4408D:RQI (TA = 8)	B1275071628.C1278280425	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY_TA_9	INTENSITY	INTEGER	S4409D:RQI (TA = 9)	B1275071628.C1278280426	Average	Average, Maximum, Minimum, Sum
RQI_NUM_BY_TA_GT_63	INTENSITY	INTEGER	S4463D:RQI (TA greater than 63)	B1275071628.C1278280456	Average	Average, Maximum, Minimum, Sum

#### 7.48.21TRX.Huawei.GSM.Rx\_quality\_distribution\_DL

Receive quality distribution on downlink

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
FR_DOWN_RX_QLTY_0_NEW	ACCUMULATION	INT8	NCS412A: Number of MRs on Downlink TCHF (Receive Quality Rank 0)	B1275071636.C1278288417	Sum	
FR_DOWN_RX	ACCUMULATION	INT8	NCS412B: Num	B1275071636.C127	Sum	

X_QLTY_1_N EW	TION		ber of MRs on Downlink TCHF (Receive Quality Rank 1)	8288418		
FR_DOWN_R X_QLTY_2_N EW	ACCUMULA TION	INT8	NCS412C:Num ber of MRs on Downlink TCHF (Receive Quality Rank 2)	B1275071636.C127 8288419	Sum	
FR_DOWN_R X_QLTY_3_N EW	ACCUMULA TION	INT8	NCS412D:Num ber of MRs on Downlink TCHF (Receive Quality Rank 3)	B1275071636.C127 8288420	Sum	
FR_DOWN_R X_QLTY_4_N EW	ACCUMULA TION	INT8	NCS412E:Num ber of MRs on Downlink TCHF (Receive Quality Rank 4)	B1275071636.C127 8288421	Sum	
FR_DOWN_R X_QLTY_5_N EW	ACCUMULA TION	INT8	NCS412F:Num ber of MRs on Downlink TCHF (Receive Quality Rank 5)	B1275071636.C127 8288422	Sum	
FR_DOWN_R X_QLTY_6_N EW	ACCUMULA TION	INT8	NCS412G:Num ber of MRs on Downlink TCHF (Receive Quality Rank 6)	B1275071636.C127 8288423	Sum	
FR_DOWN_R X_QLTY_7_N EW	ACCUMULA TION	INT8	NCS412H:Num ber of MRs on Downlink TCHF (Receive Quality Rank 7)	B1275071636.C127 8288424	Sum	
HR_DOWN_R X_QLTY_0_N EW	ACCUMULA TION	INT8	NCS414A:Num ber of MRs on Downlink	B1275071636.C127 8288433	Sum	

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			TCHH (Receive Quality Rank 0)			
HR_DOWN_RX_QLTY_1_N EW	ACCUMULATION	INT8	NCS414B: Number of MRs on Downlink TCHH (Receive Quality Rank 1)	B1275071636.C127 8288434	Sum	
HR_DOWN_RX_QLTY_2_N EW	ACCUMULATION	INT8	NCS414C: Number of MRs on Downlink TCHH (Receive Quality Rank 2)	B1275071636.C127 8288435	Sum	
HR_DOWN_RX_QLTY_3_N EW	ACCUMULATION	INT8	NCS414D: Number of MRs on Downlink TCHH (Receive Quality Rank 3)	B1275071636.C127 8288436	Sum	
HR_DOWN_RX_QLTY_4_N EW	ACCUMULATION	INT8	NCS414E: Number of MRs on Downlink TCHH (Receive Quality Rank 4)	B1275071636.C127 8288437	Sum	
HR_DOWN_RX_QLTY_5_N EW	ACCUMULATION	INT8	NCS414F: Number of MRs on Downlink TCHH (Receive Quality Rank 5)	B1275071636.C127 8288438	Sum	
HR_DOWN_RX_QLTY_6_N EW	ACCUMULATION	INT8	NCS414G: Number of MRs on Downlink TCHH (Receive Quality Rank 6)	B1275071636.C127 8288439	Sum	
HR_DOWN_RX_QLTY_7_N EW	ACCUMULATION	INT8	NCS414H: Number of MRs on Downlink TCHH (Receive Quality Rank 7)	B1275071636.C127 8288440	Sum	

#### 7.48.22TRX.Huawei.GSM.Rx\_quality\_distribution\_UL

Receive quality distribution on uplink

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
FR_UP_RX_QUALITY_0_NEW	ACCUMULATION	INT8	NCS413A: Number of MRs on Uplink TCHF (Receive Quality Rank 0)	B1275071636.C1278288425	Sum	
FR_UP_RX_QUALITY_1_NEW	ACCUMULATION	INT8	NCS413B: Number of MRs on Uplink TCHF (Receive Quality Rank 1)	B1275071636.C1278288426	Sum	
FR_UP_RX_QUALITY_2_NEW	ACCUMULATION	INT8	NCS413C: Number of MRs on Uplink TCHF (Receive Quality Rank 2)	B1275071636.C1278288427	Sum	
FR_UP_RX_QUALITY_3_NEW	ACCUMULATION	INT8	NCS413D: Number of MRs on Uplink TCHF (Receive Quality Rank 3)	B1275071636.C1278288428	Sum	
FR_UP_RX_QUALITY_4_NEW	ACCUMULATION	INT8	NCS413E: Number of MRs on Uplink TCHF (Receive Quality Rank 4)	B1275071636.C1278288429	Sum	
FR_UP_RX_QUALITY_5_NEW	ACCUMULATION	INT8	NCS413F: Number of MRs on Uplink TCHF (Receive Quality Rank 5)	B1275071636.C1278288430	Sum	
FR_UP_RX_QUALITY_6_NEW	ACCUMULATION	INT8	NCS413G: Number of MRs on Uplink TCHF (Receive	B1275071636.C1278288431	Sum	

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			Quality Rank 6)			
FR_UP_RX_Q LTY_7_NEW	ACCUMULA TION	INT8	NCS413H:Num ber of MRs on Uplink TCHF (Receive Quality Rank 7)	B1275071636.C127 8288432	Sum	
HR_UP_RX_ QLTY_0_NE W	ACCUMULA TION	INT8	NCS415A:Num ber of MRs on Uplink TCHH (Receive Quality Rank 0)	B1275071636.C127 8288441	Sum	
HR_UP_RX_ QLTY_1_NE W	ACCUMULA TION	INT8	NCS415B:Num ber of MRs on Uplink TCHH (Receive Quality Rank 1)	B1275071636.C127 8288442	Sum	
HR_UP_RX_ QLTY_2_NE W	ACCUMULA TION	INT8	NCS415C:Num ber of MRs on Uplink TCHH (Receive Quality Rank 2)	B1275071636.C127 8288443	Sum	
HR_UP_RX_ QLTY_3_NE W	ACCUMULA TION	INT8	NCS415D:Num ber of MRs on Uplink TCHH (Receive Quality Rank 3)	B1275071636.C127 8288444	Sum	
HR_UP_RX_ QLTY_4_NE W	ACCUMULA TION	INT8	NCS415E:Num ber of MRs on Uplink TCHH (Receive Quality Rank 4)	B1275071636.C127 8288445	Sum	
HR_UP_RX_ QLTY_5_NE W	ACCUMULA TION	INT8	NCS415F:Num ber of MRs on Uplink TCHH (Receive Quality Rank 5)	B1275071636.C127 8288446	Sum	
HR_UP_RX_ QLTY_6_NE W	ACCUMULA TION	INT8	NCS415G:Num ber of MRs on Uplink TCHH (Receive Quality Rank 6)	B1275071636.C127 8288447	Sum	

HR_UP_RX_QLTY_7_NEW	ACCUMULATION	INT8	NCS415H: Number of MRs on Uplink TCHH (Receive Quality Rank 7)	B1275071636.C1278288448	Sum	
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**7.48.23TRX.Huawei.GSM.Rx\_quality\_indicator**

Receive Quality Indicator

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
RQI_MR_TOTAL_NUM	ACCUMULATION	INT8	S4440E: Number of Measurement Reports with RQI	B1275071635.C1278287457	Sum	
RQI_NUM_0_TO_1_RATE	INTENSITY	FLOAT	S4420E: Ratio (RQI = 0 to 1)	B1275071635.C1278287437	Average	Average, Maximum, Minimum, Sum
RQI_NUM_0_TO_1	ACCUMULATION	INT8	S4400E: Number of Measurement Reports (RQI = 0 to 1)	B1275071635.C1278287417	Sum	
RQI_NUM_1_TO_2_RATE	INTENSITY	FLOAT	S4421E: Ratio (RQI = 1 to 2)	B1275071635.C1278287438	Average	Average, Maximum, Minimum, Sum
RQI_NUM_1_TO_2	ACCUMULATION	INT8	S4401E: Number of Measurement Reports (RQI = 1 to 2)	B1275071635.C1278287418	Sum	
RQI_NUM_10_TO_11_RATE	INTENSITY	FLOAT	S4430E: Ratio (RQI = 10 to	B1275071635.C1278287447	Average	Average, Maximum

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E			11)			m, Minimum, Sum
RQI_NUM_10_TO_11	ACCUMULATION	INT8	S4410E: Number of Measurement Reports (RQI = 10 to 11)	B1275071635.C127 8287427	Sum	
RQI_NUM_11_TO_12_RAT_E	INTENSITY	FLOAT	S4431E: Ratio (RQI = 11 to 12)	B1275071635.C127 8287448	Average	Average, Maximum, Minimum, Sum
RQI_NUM_11_TO_12	ACCUMULATION	INT8	S4411E: Number of Measurement Reports (RQI = 11 to 12)	B1275071635.C127 8287428	Sum	
RQI_NUM_12_TO_13_RAT_E	INTENSITY	FLOAT	S4432E: Ratio (RQI = 12 to 13)	B1275071635.C127 8287449	Average	Average, Maximum, Minimum, Sum
RQI_NUM_12_TO_13	ACCUMULATION	INT8	S4412E: Number of Measurement Reports (RQI = 12 to 13)	B1275071635.C127 8287429	Sum	
RQI_NUM_13_TO_14_RAT_E	INTENSITY	FLOAT	S4433E: Ratio (RQI = 13 to 14)	B1275071635.C127 8287450	Average	Average, Maximum, Minimum, Sum
RQI_NUM_13_TO_14	ACCUMULATION	INT8	S4413E: Number of Measurement Reports (RQI = 13 to 14)	B1275071635.C127 8287430	Sum	
RQI_NUM_14_TO_15_RAT_E	INTENSITY	FLOAT	S4434E: Ratio (RQI = 14 to 15)	B1275071635.C127 8287451	Average	Average, Maximum, Minimum, Sum
RQI_NUM_14	ACCUMULATION	INT8	S4414E: Number	B1275071635.C127	Sum	

_TO_15	TION		of Measurement Reports (RQI = 14 to 15)	8287431		
RQI_NUM_15_TO_25_RATE	INTENSITY	FLOAT	S4435E:Ratio (RQI = 15 to 25)	B1275071635.C1278287452	Average	Average, Maximum, Minimum, Sum
RQI_NUM_15_TO_25	ACCUMULATION	INT8	S4415E:Number of Measurement Reports (RQI = 15 to 25)	B1275071635.C1278287432	Sum	
RQI_NUM_2_TO_3_RATE	INTENSITY	FLOAT	S4422E:Ratio (RQI = 2 to 3)	B1275071635.C1278287439	Average	Average, Maximum, Minimum, Sum
RQI_NUM_2_TO_3	ACCUMULATION	INT8	S4402E:Number of Measurement Reports (RQI = 2 to 3)	B1275071635.C1278287419	Sum	
RQI_NUM_25_TO_35_RATE	INTENSITY	FLOAT	S4436E:Ratio (RQI = 25 to 35)	B1275071635.C1278287453	Average	Average, Maximum, Minimum, Sum
RQI_NUM_25_TO_35	ACCUMULATION	INT8	S4416E:Number of Measurement Reports (RQI = 25 to 35)	B1275071635.C1278287433	Sum	
RQI_NUM_3_TO_4_RATE	INTENSITY	FLOAT	S4423E:Ratio (RQI = 3 to 4)	B1275071635.C1278287440	Average	Average, Maximum, Minimum, Sum
RQI_NUM_3_TO_4	ACCUMULATION	INT8	S4403E:Number	B1275071635.C127	Sum	

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TO_4	TION		of Measurement Reports (RQI = 3 to 4)	8287420		
RQI_NUM_35_TO_45_RATE	INTENSITY	FLOAT	S4437E:Ratio (RQI = 35 to 45)	B1275071635.C1278287454	Average	Average, Maximum, Minimum, Sum
RQI_NUM_35_TO_45	ACCUMULATION	INT8	S4417E:Number of Measurement Reports (RQI = 35 to 45)	B1275071635.C1278287434	Sum	
RQI_NUM_4_TO_5_RATE	INTENSITY	FLOAT	S4424E:Ratio (RQI = 4 to 5)	B1275071635.C1278287441	Average	Average, Maximum, Minimum, Sum
RQI_NUM_4_TO_5	ACCUMULATION	INT8	S4404E:Number of Measurement Reports (RQI = 4 to 5)	B1275071635.C1278287421	Sum	
RQI_NUM_45_TO_55_RATE	INTENSITY	FLOAT	S4438E:Ratio (RQI = 45 to 55)	B1275071635.C1278287455	Average	Average, Maximum, Minimum, Sum
RQI_NUM_45_TO_55	ACCUMULATION	INT8	S4418E:Number of Measurement Reports (RQI = 45 to 55)	B1275071635.C1278287435	Sum	
RQI_NUM_5_TO_6_RATE	INTENSITY	FLOAT	S4425E:Ratio (RQI = 5 to 6)	B1275071635.C1278287442	Average	Average, Maximum, Minimum, Sum
RQI_NUM_5_TO_6	ACCUMULATION	INT8	S4405E:Number of Measurement Reports (RQI = 5 to 6)	B1275071635.C1278287422	Sum	
RQI_NUM_6	INTENSITY	FLOA	S4426E:Ratio	B1275071635.C127	Average	Average,

TO_7_RATE		T	(RQI = 6 to 7)	8287443		Maximum, Minimum, Sum
RQI_NUM_6_TO_7	ACCUMULATION	INT8	S4406E: Number of Measurement Reports (RQI = 6 to 7)	B1275071635.C127 8287423	Sum	
RQI_NUM_7_TO_8_RATE	INTENSITY	FLOAT	S4427E: Ratio (RQI = 7 to 8)	B1275071635.C127 8287444	Average	Average, Maximum, Minimum, Sum
RQI_NUM_7_TO_8	ACCUMULATION	INT8	S4407E: Number of Measurement Reports (RQI = 7 to 8)	B1275071635.C127 8287424	Sum	
RQI_NUM_8_TO_9_RATE	INTENSITY	FLOAT	S4428E: Ratio (RQI = 8 to 9)	B1275071635.C127 8287445	Average	Average, Maximum, Minimum, Sum
RQI_NUM_8_TO_9	ACCUMULATION	INT8	S4408E: Number of Measurement Reports (RQI = 8 to 9)	B1275071635.C127 8287425	Sum	
RQI_NUM_9_TO_10_RATE	INTENSITY	FLOAT	S4429E: Ratio (RQI = 9 to 10)	B1275071635.C127 8287446	Average	Average, Maximum, Minimum, Sum
RQI_NUM_9_TO_10	ACCUMULATION	INT8	S4409E: Number of Measurement Reports (RQI = 9 to 10)	B1275071635.C127 8287426	Sum	
RQI_NUM_G	INTENSITY	FLOAT	S4439E: Ratio	B1275071635.C127	Average	Average,

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T_55_RATE		T	(RQI greater than 55)	8287456		Maximum, Minimum, Sum
RQI_NUM_G T_55	ACCUMULATION	INT8	S4419E: Number of Measurement Reports (RQI greater than 55)	B1275071635.C127 8287436	Sum	

#### 7.48.24TRX.Huawei.GSM.TCHF\_receive\_level\_DL

TCHF receive level for downlink

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
FR_DOWN_L EV_0_RX_QL TY_0	ACCUMULATION	INT8	S4100B: Number of MRs on Downlink TCHF (Receive Level Rank 0 and Receive Quality Rank 0)	B1275071621.C127 8273481	Sum	
FR_DOWN_L EV_0_RX_QL TY_1	ACCUMULATION	INT8	S4101B: Number of MRs on Downlink TCHF (Receive Level Rank 0 and Receive Quality Rank 1)	B1275071621.C127 8273482	Sum	
FR_DOWN_L EV_0_RX_QL TY_2	ACCUMULATION	INT8	S4102B: Number of MRs on Downlink TCHF (Receive Level Rank 0 and Receive Quality Rank 2)	B1275071621.C127 8273483	Sum	
FR_DOWN_L EV_0_RX_QL TY_3	ACCUMULATION	INT8	S4103B: Number of MRs on Downlink TCHF (Receive Level Rank 0)	B1275071621.C127 8273484	Sum	

			and Receive Quality Rank 3)			
FR_DOWN_L EV_0_RX_QL TY_4	ACCUMULA TION	INT8	S4104B:Numbe r of MRs on Downlink TCHF (Receive Level Rank 0 and Receive Quality Rank 4)	B1275071621.C127 8273485	Sum	
FR_DOWN_L EV_0_RX_QL TY_5	ACCUMULA TION	INT8	S4105B:Numbe r of MRs on Downlink TCHF (Receive Level Rank 0 and Receive Quality Rank 5)	B1275071621.C127 8273486	Sum	
FR_DOWN_L EV_0_RX_QL TY_6	ACCUMULA TION	INT8	S4106B:Numbe r of MRs on Downlink TCHF (Receive Level Rank 0 and Receive Quality Rank 6)	B1275071621.C127 8273487	Sum	
FR_DOWN_L EV_0_RX_QL TY_7	ACCUMULA TION	INT8	S4107B:Numbe r of MRs on Downlink TCHF (Receive Level Rank 0 and Receive Quality Rank 7)	B1275071621.C127 8273488	Sum	
FR_DOWN_L EV_1_RX_QL TY_0	ACCUMULA TION	INT8	S4110B:Numbe r of MRs on Downlink TCHF (Receive Level Rank 1 and Receive Quality Rank 0)	B1275071621.C127 8273489	Sum	
FR_DOWN_L	ACCUMULA	INT8	S4111B:Numbe	B1275071621.C127	Sum	

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EV_1_RX_QLTY_1	TION		r of MRs on Downlink TCHF (Receive Level Rank 1 and Receive Quality Rank 1)	8273490		
FR_DOWN_L EV_1_RX_QLTY_2	ACCUMULATION	INT8	S4112B: Number of MRs on Downlink TCHF (Receive Level Rank 1 and Receive Quality Rank 2)	B1275071621.C127 8273491	Sum	
FR_DOWN_L EV_1_RX_QLTY_3	ACCUMULATION	INT8	S4113B: Number of MRs on Downlink TCHF (Receive Level Rank 1 and Receive Quality Rank 3)	B1275071621.C127 8273492	Sum	
FR_DOWN_L EV_1_RX_QLTY_4	ACCUMULATION	INT8	S4114B: Number of MRs on Downlink TCHF (Receive Level Rank 1 and Receive Quality Rank 4)	B1275071621.C127 8273493	Sum	
FR_DOWN_L EV_1_RX_QLTY_5	ACCUMULATION	INT8	S4115B: Number of MRs on Downlink TCHF (Receive Level Rank 1 and Receive Quality Rank 5)	B1275071621.C127 8273494	Sum	
FR_DOWN_L EV_1_RX_QLTY_6	ACCUMULATION	INT8	S4116B: Number of MRs on Downlink TCHF (Receive Level Rank 1 and Receive Quality Rank 6)	B1275071621.C127 8273495	Sum	
FR_DOWN_L	ACCUMULATION	INT8	S4117B: Number of MRs on Downlink TCHF (Receive Level Rank 1 and Receive Quality Rank 7)	B1275071621.C127	Sum	

EV_1_RX_QUALITY_7	TION		r of MRs on Downlink TCHF (Receive Level Rank 1 and Receive Quality Rank 7)	8273496		
FR_DOWN_L EV_2_RX_QUALITY_0	ACCUMULATION	INT8	S4120B: Number of MRs on Downlink TCHF (Receive Level Rank 2 and Receive Quality Rank 0)	B1275071621.C127 8273497	Sum	
FR_DOWN_L EV_2_RX_QUALITY_1	ACCUMULATION	INT8	S4121B: Number of MRs on Downlink TCHF (Receive Level Rank 2 and Receive Quality Rank 1)	B1275071621.C127 8273498	Sum	
FR_DOWN_L EV_2_RX_QUALITY_2	ACCUMULATION	INT8	S4122B: Number of MRs on Downlink TCHF (Receive Level Rank 2 and Receive Quality Rank 2)	B1275071621.C127 8273499	Sum	
FR_DOWN_L EV_2_RX_QUALITY_3	ACCUMULATION	INT8	S4123B: Number of MRs on Downlink TCHF (Receive Level Rank 2 and Receive Quality Rank 3)	B1275071621.C127 8273500	Sum	
FR_DOWN_L EV_2_RX_QUALITY_4	ACCUMULATION	INT8	S4124B: Number of MRs on Downlink TCHF (Receive	B1275071621.C127 8273501	Sum	

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			Level Rank 2 and Receive Quality Rank 4)			
FR_DOWN_L EV_2_RX_QL TY_5	ACCUMULATION	INT8	S4125B: Number of MRs on Downlink TCHF (Receive Level Rank 2 and Receive Quality Rank 5)	B1275071621.C127 8273502	Sum	
FR_DOWN_L EV_2_RX_QL TY_6	ACCUMULATION	INT8	S4126B: Number of MRs on Downlink TCHF (Receive Level Rank 2 and Receive Quality Rank 6)	B1275071621.C127 8273503	Sum	
FR_DOWN_L EV_2_RX_QL TY_7	ACCUMULATION	INT8	S4127B: Number of MRs on Downlink TCHF (Receive Level Rank 2 and Receive Quality Rank 7)	B1275071621.C127 8273504	Sum	
FR_DOWN_L EV_3_RX_QL TY_0	ACCUMULATION	INT8	S4130B: Number of MRs on Downlink TCHF (Receive Level Rank 3 and Receive Quality Rank 0)	B1275071621.C127 8273505	Sum	
FR_DOWN_L EV_3_RX_QL TY_1	ACCUMULATION	INT8	S4131B: Number of MRs on Downlink TCHF (Receive Level Rank 3 and Receive Quality Rank 1)	B1275071621.C127 8273506	Sum	
FR_DOWN_L EV_3_RX_QL TY_2	ACCUMULATION	INT8	S4132B: Number of MRs on Downlink TCHF (Receive	B1275071621.C127 8273507	Sum	

			Level Rank 3 and Receive Quality Rank 2)			
FR_DOWN_LEV_3_RX_QLTY_3	ACCUMULATION	INT8	S4133B: Number of MRs on Downlink TCHF (Receive Level Rank 3 and Receive Quality Rank 3)	B1275071621.C1278273508	Sum	
FR_DOWN_LEV_3_RX_QLTY_4	ACCUMULATION	INT8	S4134B: Number of MRs on Downlink TCHF (Receive Level Rank 3 and Receive Quality Rank 4)	B1275071621.C1278273509	Sum	
FR_DOWN_LEV_3_RX_QLTY_5	ACCUMULATION	INT8	S4135B: Number of MRs on Downlink TCHF (Receive Level Rank 3 and Receive Quality Rank 5)	B1275071621.C1278273510	Sum	
FR_DOWN_LEV_3_RX_QLTY_6	ACCUMULATION	INT8	S4136B: Number of MRs on Downlink TCHF (Receive Level Rank 3 and Receive Quality Rank 6)	B1275071621.C1278273511	Sum	
FR_DOWN_LEV_3_RX_QLTY_7	ACCUMULATION	INT8	S4137B: Number of MRs on Downlink TCHF (Receive Level Rank 3 and Receive Quality Rank 7)	B1275071621.C1278273512	Sum	

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FR_DOWN_L EV_4_RX_QL TY_0	ACCUMULATION	INT8	S4140B: Number of MRs on Downlink TCHF (Receive Level Rank 4 and Receive Quality Rank 0)	B1275071621.C127 8273513	Sum	
FR_DOWN_L EV_4_RX_QL TY_1	ACCUMULATION	INT8	S4141B: Number of MRs on Downlink TCHF (Receive Level Rank 4 and Receive Quality Rank 1)	B1275071621.C127 8273514	Sum	
FR_DOWN_L EV_4_RX_QL TY_2	ACCUMULATION	INT8	S4142B: Number of MRs on Downlink TCHF (Receive Level Rank 4 and Receive Quality Rank 2)	B1275071621.C127 8273515	Sum	
FR_DOWN_L EV_4_RX_QL TY_3	ACCUMULATION	INT8	S4143B: Number of MRs on Downlink TCHF (Receive Level Rank 4 and Receive Quality Rank 3)	B1275071621.C127 8273516	Sum	
FR_DOWN_L EV_4_RX_QL TY_4	ACCUMULATION	INT8	S4144B: Number of MRs on Downlink TCHF (Receive Level Rank 4 and Receive Quality Rank 4)	B1275071621.C127 8273517	Sum	
FR_DOWN_L EV_4_RX_QL TY_5	ACCUMULATION	INT8	S4145B: Number of MRs on Downlink TCHF (Receive Level Rank 4 and Receive Quality Rank 5)	B1275071621.C127 8273518	Sum	

FR_DOWN_L EV_4_RX_QL TY_6	ACCUMULATION	INT8	S4146B: Number of MRs on Downlink TCHF (Receive Level Rank 4 and Receive Quality Rank 6)	B1275071621.C127 8273519	Sum	
FR_DOWN_L EV_4_RX_QL TY_7	ACCUMULATION	INT8	S4147B: Number of MRs on Downlink TCHF (Receive Level Rank 4 and Receive Quality Rank 7)	B1275071621.C127 8273520	Sum	
FR_DOWN_L EV_5_RX_QL TY_0	ACCUMULATION	INT8	S4150B: Number of MRs on Downlink TCHF (Receive Level Rank 5 and Receive Quality Rank 0)	B1275071621.C127 8273521	Sum	
FR_DOWN_L EV_5_RX_QL TY_1	ACCUMULATION	INT8	S4151B: Number of MRs on Downlink TCHF (Receive Level Rank 5 and Receive Quality Rank 1)	B1275071621.C127 8273522	Sum	
FR_DOWN_L EV_5_RX_QL TY_2	ACCUMULATION	INT8	S4152B: Number of MRs on Downlink TCHF (Receive Level Rank 5 and Receive Quality Rank 2)	B1275071621.C127 8273523	Sum	
FR_DOWN_L EV_5_RX_QL TY_3	ACCUMULATION	INT8	S4153B: Number of MRs on Downlink	B1275071621.C127 8273524	Sum	

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			TCHF (Receive Level Rank 5 and Receive Quality Rank 3)			
FR_DOWN_L EV_5_RX_QL TY_4	ACCUMULATION	INT8	S4154B: Number of MRs on Downlink TCHF (Receive Level Rank 5 and Receive Quality Rank 4)	B1275071621.C127 8273525	Sum	
FR_DOWN_L EV_5_RX_QL TY_5	ACCUMULATION	INT8	S4155B: Number of MRs on Downlink TCHF (Receive Level Rank 5 and Receive Quality Rank 5)	B1275071621.C127 8273526	Sum	
FR_DOWN_L EV_5_RX_QL TY_6	ACCUMULATION	INT8	S4156B: Number of MRs on Downlink TCHF (Receive Level Rank 5 and Receive Quality Rank 6)	B1275071621.C127 8273527	Sum	
FR_DOWN_L EV_5_RX_QL TY_7	ACCUMULATION	INT8	S4157B: Number of MRs on Downlink TCHF (Receive Level Rank 5 and Receive Quality Rank 7)	B1275071621.C127 8273528	Sum	
FR_DOWN_L EV_6_RX_QL TY_0	ACCUMULATION	INT8	S4160B: Number of MRs on Downlink TCHF (Receive Level Rank 6 and Receive Quality Rank 0)	B1275071621.C127 8273529	Sum	
FR_DOWN_L EV_6_RX_QL TY_1	ACCUMULATION	INT8	S4161B: Number of MRs on Downlink	B1275071621.C127 8273530	Sum	

			TCHF (Receive Level Rank 6 and Receive Quality Rank 1)			
FR_DOWN_LEV_6_RX_QLTY_2	ACCUMULATION	INT8	S4162B: Number of MRs on Downlink TCHF (Receive Level Rank 6 and Receive Quality Rank 2)	B1275071621.C1278273531	Sum	
FR_DOWN_LEV_6_RX_QLTY_3	ACCUMULATION	INT8	S4163B: Number of MRs on Downlink TCHF (Receive Level Rank 6 and Receive Quality Rank 3)	B1275071621.C1278273532	Sum	
FR_DOWN_LEV_6_RX_QLTY_4	ACCUMULATION	INT8	S4164B: Number of MRs on Downlink TCHF (Receive Level Rank 6 and Receive Quality Rank 4)	B1275071621.C1278273533	Sum	
FR_DOWN_LEV_6_RX_QLTY_5	ACCUMULATION	INT8	S4165B: Number of MRs on Downlink TCHF (Receive Level Rank 6 and Receive Quality Rank 5)	B1275071621.C1278273534	Sum	
FR_DOWN_LEV_6_RX_QLTY_6	ACCUMULATION	INT8	S4166B: Number of MRs on Downlink TCHF (Receive Level Rank 6 and Receive	B1275071621.C1278273535	Sum	

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			Quality Rank 6)			
FR_DOWN_L EV_6_RX_QL TY_7	ACCUMULA TION	INT8	S4167B:Numbe r of MRs on Downlink TCHF (Receive Level Rank 6 and Receive Quality Rank 7)	B1275071621.C127 8273536	Sum	
FR_DOWN_L EV_7_RX_QL TY_0	ACCUMULA TION	INT8	S4170B:Numbe r of MRs on Downlink TCHF (Receive Level Rank 7 and Receive Quality Rank 0)	B1275071621.C127 8273537	Sum	
FR_DOWN_L EV_7_RX_QL TY_1	ACCUMULA TION	INT8	S4171B:Numbe r of MRs on Downlink TCHF (Receive Level Rank 7 and Receive Quality Rank 1)	B1275071621.C127 8273538	Sum	
FR_DOWN_L EV_7_RX_QL TY_2	ACCUMULA TION	INT8	S4172B:Numbe r of MRs on Downlink TCHF (Receive Level Rank 7 and Receive Quality Rank 2)	B1275071621.C127 8273539	Sum	
FR_DOWN_L EV_7_RX_QL TY_3	ACCUMULA TION	INT8	S4173B:Numbe r of MRs on Downlink TCHF (Receive Level Rank 7 and Receive Quality Rank 3)	B1275071621.C127 8273540	Sum	
FR_DOWN_L EV_7_RX_QL TY_4	ACCUMULA TION	INT8	S4174B:Numbe r of MRs on Downlink TCHF (Receive Level Rank 7 and Receive	B1275071621.C127 8273541	Sum	

			Quality Rank 4)			
FR_DOWN_LEV_7_RX_Q_LTY_6	ACCUMULATION	INT8	S4176B: Number of MRs on Downlink TCHF (Receive Level Rank 7 and Receive Quality Rank 6)	B1275071621.C1278273543	Sum	
FR_DOWN_LEV_7_RX_Q_LTY_7	ACCUMULATION	INT8	S4177B: Number of MRs on Downlink TCHF (Receive Level Rank 7 and Receive Quality Rank 7)	B1275071621.C1278273544	Sum	
MRs_DL_TCHF_rx_lvl_R7_rx_Q_R5	ACCUMULATION	INT8	S4175B: Number of MRs on Downlink TCHF (Receive Level Rank 7 and Receive Quality Rank 5)	B1275071621.C1278273542	Sum	

**7.48.25TRX.Huawei.GSM.TCHF\_receive\_level\_UL**

TCHF receive level for Uplink

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
FR_UP_LEV_0_RX_Q_LTY_0	ACCUMULATION	INT8	S4100A: Number of MRs on Uplink TCHF (Receive Level Rank 0 and Receive Quality Rank 0)	B1275071621.C1278273417	Sum	
FR_UP_LEV_	ACCUMULATION	INT8	S4101A: Numbe	B1275071621.C127	Sum	

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FR_UP_LEV_0_RX_QLTY_1	ACCUMULATION		Number of MRs on Uplink TCHF (Receive Level Rank 0 and Receive Quality Rank 1)	8273418		
FR_UP_LEV_0_RX_QLTY_2	ACCUMULATION	INT8	S4102A: Number of MRs on Uplink TCHF (Receive Level Rank 0 and Receive Quality Rank 2)	B1275071621.C127 8273419	Sum	
FR_UP_LEV_0_RX_QLTY_3	ACCUMULATION	INT8	S4103A: Number of MRs on Uplink TCHF (Receive Level Rank 0 and Receive Quality Rank 3)	B1275071621.C127 8273420	Sum	
FR_UP_LEV_0_RX_QLTY_4	ACCUMULATION	INT8	S4104A: Number of MRs on Uplink TCHF (Receive Level Rank 0 and Receive Quality Rank 4)	B1275071621.C127 8273421	Sum	
FR_UP_LEV_0_RX_QLTY_5	ACCUMULATION	INT8	S4105A: Number of MRs on Uplink TCHF (Receive Level Rank 0 and Receive Quality Rank 5)	B1275071621.C127 8273422	Sum	
FR_UP_LEV_0_RX_QLTY_6	ACCUMULATION	INT8	S4106A: Number of MRs on Uplink TCHF (Receive Level Rank 0 and Receive Quality Rank 6)	B1275071621.C127 8273423	Sum	
FR_UP_LEV_0_RX_QLTY_7	ACCUMULATION	INT8	S4107A: Number of MRs on Uplink TCHF (Receive Level Rank 0 and Receive Quality Rank 7)	B1275071621.C127 8273424	Sum	

0_RX_QLTY_7	TION		r of MRs on Uplink TCHF (Receive Level Rank 0 and Receive Quality Rank 7)	8273424		
FR_UP_LEV_1_RX_QLTY_0	ACCUMULATION	INT8	S4110A: Number of MRs on Uplink TCHF (Receive Level Rank 1 and Receive Quality Rank 0)	B1275071621.C127 8273425	Sum	
FR_UP_LEV_1_RX_QLTY_1	ACCUMULATION	INT8	S4111A: Number of MRs on Uplink TCHF (Receive Level Rank 1 and Receive Quality Rank 1)	B1275071621.C127 8273426	Sum	
FR_UP_LEV_1_RX_QLTY_2	ACCUMULATION	INT8	S4112A: Number of MRs on Uplink TCHF (Receive Level Rank 1 and Receive Quality Rank 2)	B1275071621.C127 8273427	Sum	
FR_UP_LEV_1_RX_QLTY_3	ACCUMULATION	INT8	S4113A: Number of MRs on Uplink TCHF (Receive Level Rank 1 and Receive Quality Rank 3)	B1275071621.C127 8273428	Sum	
FR_UP_LEV_1_RX_QLTY_4	ACCUMULATION	INT8	S4114A: Number of MRs on Uplink TCHF (Receive Level	B1275071621.C127 8273429	Sum	

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			Rank 1 and Receive Quality Rank 4)			
FR_UP_LEV_1_RX_QLTY_5	ACCUMULATION	INT8	S4115A: Number of MRs on Uplink TCHF (Receive Level Rank 1 and Receive Quality Rank 5)	B1275071621.C1278273430	Sum	
FR_UP_LEV_1_RX_QLTY_6	ACCUMULATION	INT8	S4116A: Number of MRs on Uplink TCHF (Receive Level Rank 1 and Receive Quality Rank 6)	B1275071621.C1278273431	Sum	
FR_UP_LEV_1_RX_QLTY_7	ACCUMULATION	INT8	S4117A: Number of MRs on Uplink TCHF (Receive Level Rank 1 and Receive Quality Rank 7)	B1275071621.C1278273432	Sum	
FR_UP_LEV_2_RX_QLTY_0	ACCUMULATION	INT8	S4120A: Number of MRs on Uplink TCHF (Receive Level Rank 2 and Receive Quality Rank 0)	B1275071621.C1278273433	Sum	
FR_UP_LEV_2_RX_QLTY_1	ACCUMULATION	INT8	S4121A: Number of MRs on Uplink TCHF (Receive Level Rank 2 and Receive Quality Rank 1)	B1275071621.C1278273434	Sum	
FR_UP_LEV_2_RX_QLTY_2	ACCUMULATION	INT8	S4122A: Number of MRs on Uplink TCHF (Receive Level	B1275071621.C1278273435	Sum	

			Rank 2 and Receive Quality Rank 2)			
FR_UP_LEV_2_RX_QLTY_3	ACCUMULATION	INT8	S4123A: Number of MRs on Uplink TCHF (Receive Level Rank 2 and Receive Quality Rank 3)	B1275071621.C1278273436	Sum	
FR_UP_LEV_2_RX_QLTY_4	ACCUMULATION	INT8	S4124A: Number of MRs on Uplink TCHF (Receive Level Rank 2 and Receive Quality Rank 4)	B1275071621.C1278273437	Sum	
FR_UP_LEV_2_RX_QLTY_5	ACCUMULATION	INT8	S4125A: Number of MRs on Uplink TCHF (Receive Level Rank 2 and Receive Quality Rank 5)	B1275071621.C1278273438	Sum	
FR_UP_LEV_2_RX_QLTY_6	ACCUMULATION	INT8	S4126A: Number of MRs on Uplink TCHF (Receive Level Rank 2 and Receive Quality Rank 6)	B1275071621.C1278273439	Sum	
FR_UP_LEV_2_RX_QLTY_7	ACCUMULATION	INT8	S4127A: Number of MRs on Uplink TCHF (Receive Level Rank 2 and Receive Quality Rank 7)	B1275071621.C1278273440	Sum	

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FR_UP_LEV_3_RX_QLTY_0	ACCUMULATION	INT8	S4130A: Number of MRs on Uplink TCHF (Receive Level Rank 3 and Receive Quality Rank 0)	B1275071621.C1278273441	Sum	
FR_UP_LEV_3_RX_QLTY_1	ACCUMULATION	INT8	S4131A: Number of MRs on Uplink TCHF (Receive Level Rank 3 and Receive Quality Rank 1)	B1275071621.C1278273442	Sum	
FR_UP_LEV_3_RX_QLTY_2	ACCUMULATION	INT8	S4132A: Number of MRs on Uplink TCHF (Receive Level Rank 3 and Receive Quality Rank 2)	B1275071621.C1278273443	Sum	
FR_UP_LEV_3_RX_QLTY_3	ACCUMULATION	INT8	S4133A: Number of MRs on Uplink TCHF (Receive Level Rank 3 and Receive Quality Rank 3)	B1275071621.C1278273444	Sum	
FR_UP_LEV_3_RX_QLTY_4	ACCUMULATION	INT8	S4134A: Number of MRs on Uplink TCHF (Receive Level Rank 3 and Receive Quality Rank 4)	B1275071621.C1278273445	Sum	
FR_UP_LEV_3_RX_QLTY_5	ACCUMULATION	INT8	S4135A: Number of MRs on Uplink TCHF (Receive Level Rank 3 and Receive Quality Rank 5)	B1275071621.C1278273446	Sum	

FR_UP_LEV_3_RX_QLTY_6	ACCUMULATION	INT8	S4136A: Number of MRs on Uplink TCHF (Receive Level Rank 3 and Receive Quality Rank 6)	B1275071621.C1278273447	Sum	
FR_UP_LEV_3_RX_QLTY_7	ACCUMULATION	INT8	S4137A: Number of MRs on Uplink TCHF (Receive Level Rank 3 and Receive Quality Rank 7)	B1275071621.C1278273448	Sum	
FR_UP_LEV_4_RX_QLTY_0	ACCUMULATION	INT8	S4140A: Number of MRs on Uplink TCHF (Receive Level Rank 4 and Receive Quality Rank 0)	B1275071621.C1278273449	Sum	
FR_UP_LEV_4_RX_QLTY_1	ACCUMULATION	INT8	S4141A: Number of MRs on Uplink TCHF (Receive Level Rank 4 and Receive Quality Rank 1)	B1275071621.C1278273450	Sum	
FR_UP_LEV_4_RX_QLTY_2	ACCUMULATION	INT8	S4142A: Number of MRs on Uplink TCHF (Receive Level Rank 4 and Receive Quality Rank 2)	B1275071621.C1278273451	Sum	
FR_UP_LEV_4_RX_QLTY_3	ACCUMULATION	INT8	S4143A: Number of MRs on Uplink TCHF	B1275071621.C1278273452	Sum	

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			(Receive Level Rank 4 and Receive Quality Rank 3)			
FR_UP_LEV_4_RX_QLTY_4	ACCUMULATION	INT8	S4144A: Number of MRs on Uplink TCHF (Receive Level Rank 4 and Receive Quality Rank 4)	B1275071621.C1278273453	Sum	
FR_UP_LEV_4_RX_QLTY_5	ACCUMULATION	INT8	S4145A: Number of MRs on Uplink TCHF (Receive Level Rank 4 and Receive Quality Rank 5)	B1275071621.C1278273454	Sum	
FR_UP_LEV_4_RX_QLTY_6	ACCUMULATION	INT8	S4146A: Number of MRs on Uplink TCHF (Receive Level Rank 4 and Receive Quality Rank 6)	B1275071621.C1278273455	Sum	
FR_UP_LEV_4_RX_QLTY_7	ACCUMULATION	INT8	S4147A: Number of MRs on Uplink TCHF (Receive Level Rank 4 and Receive Quality Rank 7)	B1275071621.C1278273456	Sum	
FR_UP_LEV_5_RX_QLTY_0	ACCUMULATION	INT8	S4150A: Number of MRs on Uplink TCHF (Receive Level Rank 5 and Receive Quality Rank 0)	B1275071621.C1278273457	Sum	
FR_UP_LEV_5_RX_QLTY_1	ACCUMULATION	INT8	S4151A: Number of MRs on Uplink TCHF	B1275071621.C1278273458	Sum	

			(Receive Level Rank 5 and Receive Quality Rank 1)			
FR_UP_LEV_5_RX_QLTY_2	ACCUMULATION	INT8	S4152A: Number of MRs on Uplink TCHF (Receive Level Rank 5 and Receive Quality Rank 2)	B1275071621.C1278273459	Sum	
FR_UP_LEV_5_RX_QLTY_3	ACCUMULATION	INT8	S4153A: Number of MRs on Uplink TCHF (Receive Level Rank 5 and Receive Quality Rank 3)	B1275071621.C1278273460	Sum	
FR_UP_LEV_5_RX_QLTY_4	ACCUMULATION	INT8	S4154A: Number of MRs on Uplink TCHF (Receive Level Rank 5 and Receive Quality Rank 4)	B1275071621.C1278273461	Sum	
FR_UP_LEV_5_RX_QLTY_5	ACCUMULATION	INT8	S4155A: Number of MRs on Uplink TCHF (Receive Level Rank 5 and Receive Quality Rank 5)	B1275071621.C1278273462	Sum	
FR_UP_LEV_5_RX_QLTY_6	ACCUMULATION	INT8	S4156A: Number of MRs on Uplink TCHF (Receive Level Rank 5 and Receive Quality Rank 6)	B1275071621.C1278273463	Sum	

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			Rank 6)			
FR_UP_LEV_5_RX_QLTY_7	ACCUMULATION	INT8	S4157A: Number of MRs on Uplink TCHF (Receive Level Rank 5 and Receive Quality Rank 7)	B1275071621.C127 8273464	Sum	
FR_UP_LEV_6_RX_QLTY_0	ACCUMULATION	INT8	S4160A: Number of MRs on Uplink TCHF (Receive Level Rank 6 and Receive Quality Rank 0)	B1275071621.C127 8273465	Sum	
FR_UP_LEV_6_RX_QLTY_1	ACCUMULATION	INT8	S4161A: Number of MRs on Uplink TCHF (Receive Level Rank 6 and Receive Quality Rank 1)	B1275071621.C127 8273466	Sum	
FR_UP_LEV_6_RX_QLTY_2	ACCUMULATION	INT8	S4162A: Number of MRs on Uplink TCHF (Receive Level Rank 6 and Receive Quality Rank 2)	B1275071621.C127 8273467	Sum	
FR_UP_LEV_6_RX_QLTY_3	ACCUMULATION	INT8	S4163A: Number of MRs on Uplink TCHF (Receive Level Rank 6 and Receive Quality Rank 3)	B1275071621.C127 8273468	Sum	
FR_UP_LEV_6_RX_QLTY_4	ACCUMULATION	INT8	S4164A: Number of MRs on Uplink TCHF (Receive Level Rank 6 and Receive Quality Rank 4)	B1275071621.C127 8273469	Sum	

			Rank 4)			
FR_UP_LEV_6_RX_QLTY_5	ACCUMULATION	INT8	S4165A: Number of MRs on Uplink TCHF (Receive Level Rank 6 and Receive Quality Rank 5)	B1275071621.C1278273470	Sum	
FR_UP_LEV_6_RX_QLTY_6	ACCUMULATION	INT8	S4166A: Number of MRs on Uplink TCHF (Receive Level Rank 6 and Receive Quality Rank 6)	B1275071621.C1278273471	Sum	
FR_UP_LEV_6_RX_QLTY_7	ACCUMULATION	INT8	S4167A: Number of MRs on Uplink TCHF (Receive Level Rank 6 and Receive Quality Rank 7)	B1275071621.C1278273472	Sum	
FR_UP_LEV_7_RX_QLTY_0	ACCUMULATION	INT8	S4170A: Number of MRs on Uplink TCHF (Receive Level Rank 7 and Receive Quality Rank 0)	B1275071621.C1278273473	Sum	
FR_UP_LEV_7_RX_QLTY_1	ACCUMULATION	INT8	S4171A: Number of MRs on Uplink TCHF (Receive Level Rank 7 and Receive Quality Rank 1)	B1275071621.C1278273474	Sum	
FR_UP_LEV_7_RX_QLTY_2	ACCUMULATION	INT8	S4172A: Number of MRs on	B1275071621.C1278273475	Sum	

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2			Uplink TCHF (Receive Level Rank 7 and Receive Quality Rank 2)			
FR_UP_LEV_ 7_RX_QLTY_ 3	ACCUMULA TION	INT8	S4173A:Numbe r of MRs on Uplink TCHF (Receive Level Rank 7 and Receive Quality Rank 3)	B1275071621.C127 8273476	Sum	
FR_UP_LEV_ 7_RX_QLTY_ 4	ACCUMULA TION	INT8	S4174A:Numbe r of MRs on Uplink TCHF (Receive Level Rank 7 and Receive Quality Rank 4)	B1275071621.C127 8273477	Sum	
FR_UP_LEV_ 7_RX_QLTY_ 5	ACCUMULA TION	INT8	S4175A:Numbe r of MRs on Uplink TCHF (Receive Level Rank 7 and Receive Quality Rank 5)	B1275071621.C127 8273478	Sum	
FR_UP_LEV_ 7_RX_QLTY_ 6	ACCUMULA TION	INT8	S4176A:Numbe r of MRs on Uplink TCHF (Receive Level Rank 7 and Receive Quality Rank 6)	B1275071621.C127 8273479	Sum	
FR_UP_LEV_ 7_RX_QLTY_ 7	ACCUMULA TION	INT8	S4177A:Numbe r of MRs on Uplink TCHF (Receive Level Rank 7 and Receive Quality Rank 7)	B1275071621.C127 8273480	Sum	

**7.48.26TRX.Huawei.GSM.TCHH\_receive\_level\_DL**

TCHH receive level downlink

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
HR_DOWN_LEV_0_RX_QLTY_0	ACCUMULATION	INT8	S4100D: Number of MRs on Downlink TCHH (Receive Level Rank 0 and Receive Quality Rank 0)	B1275071622.C1278274481	Sum	
HR_DOWN_LEV_0_RX_QLTY_1	ACCUMULATION	INT8	S4101D: Number of MRs on Downlink TCHH (Receive Level Rank 0 and Receive Quality Rank 1)	B1275071622.C1278274482	Sum	
HR_DOWN_LEV_0_RX_QLTY_2	ACCUMULATION	INT8	S4102D: Number of MRs on Downlink TCHH (Receive Level Rank 0 and Receive Quality Rank 2)	B1275071622.C1278274483	Sum	
HR_DOWN_LEV_0_RX_QLTY_3	ACCUMULATION	INT8	S4103D: Number of MRs on Downlink TCHH (Receive Level Rank 0 and Receive Quality Rank 3)	B1275071622.C1278274484	Sum	
HR_DOWN_LEV_0_RX_QLTY_4	ACCUMULATION	INT8	S4104D: Number of MRs on Downlink TCHH (Receive Level Rank 0	B1275071622.C1278274485	Sum	

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			and Receive Quality Rank 4)			
HR_DOWN_LEV_0_RX_QUALITY_5	ACCUMULATION	INT8	S4105D: Number of MRs on Downlink TCHH (Receive Level Rank 0 and Receive Quality Rank 5)	B1275071622.C1278274486	Sum	
HR_DOWN_LEV_0_RX_QUALITY_6	ACCUMULATION	INT8	S4106D: Number of MRs on Downlink TCHH (Receive Level Rank 0 and Receive Quality Rank 6)	B1275071622.C1278274487	Sum	
HR_DOWN_LEV_0_RX_QUALITY_7	ACCUMULATION	INT8	S4107D: Number of MRs on Downlink TCHH (Receive Level Rank 0 and Receive Quality Rank 7)	B1275071622.C1278274488	Sum	
HR_DOWN_LEV_1_RX_QUALITY_0	ACCUMULATION	INT8	S4110D: Number of MRs on Downlink TCHH (Receive Level Rank 1 and Receive Quality Rank 0)	B1275071622.C1278274489	Sum	
HR_DOWN_LEV_1_RX_QUALITY_1	ACCUMULATION	INT8	S4111D: Number of MRs on Downlink TCHH (Receive Level Rank 1 and Receive Quality Rank 1)	B1275071622.C1278274490	Sum	
HR_DOWN_LEV_1_RX_QUALITY_2	ACCUMULATION	INT8	S4112D: Number of MRs on Downlink TCHH (Receive Level Rank 1	B1275071622.C1278274491	Sum	

			and Receive Quality Rank 2)			
HR_DOWN_L EV_1_RX_QL TY_3	ACCUMULA TION	INT8	S4113D:Numbe r of MRs on Downlink TCHH (Receive Level Rank 1 and Receive Quality Rank 3)	B1275071622.C127 8274492	Sum	
HR_DOWN_L EV_1_RX_QL TY_4	ACCUMULA TION	INT8	S4114D:Numbe r of MRs on Downlink TCHH (Receive Level Rank 1 and Receive Quality Rank 4)	B1275071622.C127 8274493	Sum	
HR_DOWN_L EV_1_RX_QL TY_5	ACCUMULA TION	INT8	S4115D:Numbe r of MRs on Downlink TCHH (Receive Level Rank 1 and Receive Quality Rank 5)	B1275071622.C127 8274494	Sum	
HR_DOWN_L EV_1_RX_QL TY_6	ACCUMULA TION	INT8	S4116D:Numbe r of MRs on Downlink TCHH (Receive Level Rank 1 and Receive Quality Rank 6)	B1275071622.C127 8274495	Sum	
HR_DOWN_L EV_1_RX_QL TY_7	ACCUMULA TION	INT8	S4117D:Numbe r of MRs on Downlink TCHH (Receive Level Rank 1 and Receive Quality Rank 7)	B1275071622.C127 8274496	Sum	
HR_DOWN_L	ACCUMULA	INT8	S4120D:Numbe	B1275071622.C127	Sum	

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EV_2_RX_QLTY_0	TION		r of MRs on Downlink TCHH (Receive Level Rank 2 and Receive Quality Rank 0)	8274497		
HR_DOWN_L EV_2_RX_QLTY_1	ACCUMULATION	INT8	S4121D: Number of MRs on Downlink TCHH (Receive Level Rank 2 and Receive Quality Rank 1)	B1275071622.C127 8274498	Sum	
HR_DOWN_L EV_2_RX_QLTY_2	ACCUMULATION	INT8	S4122D: Number of MRs on Downlink TCHH (Receive Level Rank 2 and Receive Quality Rank 2)	B1275071622.C127 8274499	Sum	
HR_DOWN_L EV_2_RX_QLTY_3	ACCUMULATION	INT8	S4123D: Number of MRs on Downlink TCHH (Receive Level Rank 2 and Receive Quality Rank 3)	B1275071622.C127 8274500	Sum	
HR_DOWN_L EV_2_RX_QLTY_4	ACCUMULATION	INT8	S4124D: Number of MRs on Downlink TCHH (Receive Level Rank 2 and Receive Quality Rank 4)	B1275071622.C127 8274501	Sum	
HR_DOWN_L EV_2_RX_QLTY_5	ACCUMULATION	INT8	S4125D: Number of MRs on Downlink TCHH (Receive Level Rank 2 and Receive Quality Rank 5)	B1275071622.C127 8274502	Sum	
HR_DOWN_L	ACCUMULATION	INT8	S4126D: Number of MRs on Downlink TCHH (Receive Level Rank 2 and Receive Quality Rank 6)	B1275071622.C127	Sum	

EV_2_RX_QLTY_6	TION		r of MRs on Downlink TCHH (Receive Level Rank 2 and Receive Quality Rank 6)	8274503		
HR_DOWN_LEV_2_RX_QLTY_7	ACCUMULATION	INT8	S4127D: Number of MRs on Downlink TCHH (Receive Level Rank 2 and Receive Quality Rank 7)	B1275071622.C1278274504	Sum	
HR_DOWN_LEV_3_RX_QLTY_0	ACCUMULATION	INT8	S4130D: Number of MRs on Downlink TCHH (Receive Level Rank 3 and Receive Quality Rank 0)	B1275071622.C1278274505	Sum	
HR_DOWN_LEV_3_RX_QLTY_1	ACCUMULATION	INT8	S4131D: Number of MRs on Downlink TCHH (Receive Level Rank 3 and Receive Quality Rank 1)	B1275071622.C1278274506	Sum	
HR_DOWN_LEV_3_RX_QLTY_2	ACCUMULATION	INT8	S4132D: Number of MRs on Downlink TCHH (Receive Level Rank 3 and Receive Quality Rank 2)	B1275071622.C1278274507	Sum	
HR_DOWN_LEV_3_RX_QLTY_3	ACCUMULATION	INT8	S4133D: Number of MRs on Downlink TCHH (Receive	B1275071622.C1278274508	Sum	

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			Level Rank 3 and Receive Quality Rank 3)			
HR_DOWN_LEV_3_RX_QTY_4	ACCUMULATION	INT8	S4134D: Number of MRs on Downlink TCHH (Receive Level Rank 3 and Receive Quality Rank 4)	B1275071622.C1278274509	Sum	
HR_DOWN_LEV_3_RX_QTY_5	ACCUMULATION	INT8	S4135D: Number of MRs on Downlink TCHH (Receive Level Rank 3 and Receive Quality Rank 5)	B1275071622.C1278274510	Sum	
HR_DOWN_LEV_3_RX_QTY_6	ACCUMULATION	INT8	S4136D: Number of MRs on Downlink TCHH (Receive Level Rank 3 and Receive Quality Rank 6)	B1275071622.C1278274511	Sum	
HR_DOWN_LEV_3_RX_QTY_7	ACCUMULATION	INT8	S4137D: Number of MRs on Downlink TCHH (Receive Level Rank 3 and Receive Quality Rank 7)	B1275071622.C1278274512	Sum	
HR_DOWN_LEV_4_RX_QTY_0	ACCUMULATION	INT8	S4140D: Number of MRs on Downlink TCHH (Receive Level Rank 4 and Receive Quality Rank 0)	B1275071622.C1278274513	Sum	
HR_DOWN_LEV_4_RX_QTY_1	ACCUMULATION	INT8	S4141D: Number of MRs on Downlink TCHH (Receive	B1275071622.C1278274514	Sum	

			Level Rank 4 and Receive Quality Rank 1)			
HR_DOWN_LEV_4_RX_QLTY_2	ACCUMULATION	INT8	S4142D: Number of MRs on Downlink TCHH (Receive Level Rank 4 and Receive Quality Rank 2)	B1275071622.C1278274515	Sum	
HR_DOWN_LEV_4_RX_QLTY_3	ACCUMULATION	INT8	S4143D: Number of MRs on Downlink TCHH (Receive Level Rank 4 and Receive Quality Rank 3)	B1275071622.C1278274516	Sum	
HR_DOWN_LEV_4_RX_QLTY_4	ACCUMULATION	INT8	S4144D: Number of MRs on Downlink TCHH (Receive Level Rank 4 and Receive Quality Rank 4)	B1275071622.C1278274517	Sum	
HR_DOWN_LEV_4_RX_QLTY_5	ACCUMULATION	INT8	S4145D: Number of MRs on Downlink TCHH (Receive Level Rank 4 and Receive Quality Rank 5)	B1275071622.C1278274518	Sum	
HR_DOWN_LEV_4_RX_QLTY_6	ACCUMULATION	INT8	S4146D: Number of MRs on Downlink TCHH (Receive Level Rank 4 and Receive Quality Rank 6)	B1275071622.C1278274519	Sum	

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HR_DOWN_L EV_4_RX_QL TY_7	ACCUMULATION	INT8	S4147D:Numbe r of MRs on Downlink TCHH (Receive Level Rank 4 and Receive Quality Rank 7)	B1275071622.C127 8274520	Sum	
HR_DOWN_L EV_5_RX_QL TY_0	ACCUMULATION	INT8	S4150D:Numbe r of MRs on Downlink TCHH (Receive Level Rank 5 and Receive Quality Rank 0)	B1275071622.C127 8274521	Sum	
HR_DOWN_L EV_5_RX_QL TY_1	ACCUMULATION	INT8	S4151D:Numbe r of MRs on Downlink TCHH (Receive Level Rank 5 and Receive Quality Rank 1)	B1275071622.C127 8274522	Sum	
HR_DOWN_L EV_5_RX_QL TY_2	ACCUMULATION	INT8	S4152D:Numbe r of MRs on Downlink TCHH (Receive Level Rank 5 and Receive Quality Rank 2)	B1275071622.C127 8274523	Sum	
HR_DOWN_L EV_5_RX_QL TY_3	ACCUMULATION	INT8	S4153D:Numbe r of MRs on Downlink TCHH (Receive Level Rank 5 and Receive Quality Rank 3)	B1275071622.C127 8274524	Sum	
HR_DOWN_L EV_5_RX_QL TY_4	ACCUMULATION	INT8	S4154D:Numbe r of MRs on Downlink TCHH (Receive Level Rank 5 and Receive Quality Rank 4)	B1275071622.C127 8274525	Sum	

HR_DOWN_L EV_5_RX_QL TY_5	ACCUMULA TION	INT8	S4155D:Numbe r of MRs on Downlink TCHH (Receive Level Rank 5 and Receive Quality Rank 5)	B1275071622.C127 8274526	Sum	
HR_DOWN_L EV_5_RX_QL TY_6	ACCUMULA TION	INT8	S4156D:Numbe r of MRs on Downlink TCHH (Receive Level Rank 5 and Receive Quality Rank 6)	B1275071622.C127 8274527	Sum	
HR_DOWN_L EV_5_RX_QL TY_7	ACCUMULA TION	INT8	S4157D:Numbe r of MRs on Downlink TCHH (Receive Level Rank 5 and Receive Quality Rank 7)	B1275071622.C127 8274528	Sum	
HR_DOWN_L EV_6_RX_QL TY_0	ACCUMULA TION	INT8	S4160D:Numbe r of MRs on Downlink TCHH (Receive Level Rank 6 and Receive Quality Rank 0)	B1275071622.C127 8274529	Sum	
HR_DOWN_L EV_6_RX_QL TY_1	ACCUMULA TION	INT8	S4161D:Numbe r of MRs on Downlink TCHH (Receive Level Rank 6 and Receive Quality Rank 1)	B1275071622.C127 8274530	Sum	
HR_DOWN_L EV_6_RX_QL TY_2	ACCUMULA TION	INT8	S4162D:Numbe r of MRs on Downlink	B1275071622.C127 8274531	Sum	

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			TCHH (Receive Level Rank 6 and Receive Quality Rank 2)			
HR_DOWN_LEV_6_RX_QUALITY_3	ACCUMULATION	INT8	S4163D: Number of MRs on Downlink TCHH (Receive Level Rank 6 and Receive Quality Rank 3)	B1275071622.C1278274532	Sum	
HR_DOWN_LEV_6_RX_QUALITY_4	ACCUMULATION	INT8	S4164D: Number of MRs on Downlink TCHH (Receive Level Rank 6 and Receive Quality Rank 4)	B1275071622.C1278274533	Sum	
HR_DOWN_LEV_6_RX_QUALITY_5	ACCUMULATION	INT8	S4165D: Number of MRs on Downlink TCHH (Receive Level Rank 6 and Receive Quality Rank 5)	B1275071622.C1278274534	Sum	
HR_DOWN_LEV_6_RX_QUALITY_6	ACCUMULATION	INT8	S4166D: Number of MRs on Downlink TCHH (Receive Level Rank 6 and Receive Quality Rank 6)	B1275071622.C1278274535	Sum	
HR_DOWN_LEV_6_RX_QUALITY_7	ACCUMULATION	INT8	S4167D: Number of MRs on Downlink TCHH (Receive Level Rank 6 and Receive Quality Rank 7)	B1275071622.C1278274536	Sum	
HR_DOWN_LEV_7_RX_QUALITY_0	ACCUMULATION	INT8	S4170D: Number of MRs on Downlink	B1275071622.C1278274537	Sum	

			TCHH (Receive Level Rank 7 and Receive Quality Rank 0)			
HR_DOWN_LEV_7_RX_QUALITY_1	ACCUMULATION	INT8	S4171D: Number of MRs on Downlink TCHH (Receive Level Rank 7 and Receive Quality Rank 1)	B1275071622.C1278274538	Sum	
HR_DOWN_LEV_7_RX_QUALITY_2	ACCUMULATION	INT8	S4172D: Number of MRs on Downlink TCHH (Receive Level Rank 7 and Receive Quality Rank 2)	B1275071622.C1278274539	Sum	
HR_DOWN_LEV_7_RX_QUALITY_4	ACCUMULATION	INT8	S4174D: Number of MRs on Downlink TCHH (Receive Level Rank 7 and Receive Quality Rank 4)	B1275071622.C1278274541	Sum	
HR_DOWN_LEV_7_RX_QUALITY_5	ACCUMULATION	INT8	S4175D: Number of MRs on Downlink TCHH (Receive Level Rank 7 and Receive Quality Rank 5)	B1275071622.C1278274542	Sum	
HR_DOWN_LEV_7_RX_QUALITY_6	ACCUMULATION	INT8	S4176D: Number of MRs on Downlink TCHH (Receive Level Rank 7 and Receive	B1275071622.C1278274543	Sum	

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			Quality Rank 6)			
HR_DOWN_LEV_7_RX_QLTY_7	ACCUMULATION	INT8	S4177D: Number of MRs on Downlink TCHH (Receive Level Rank 7 and Receive Quality Rank 7)	B1275071622.C1278274544	Sum	
RX_HR_DOWN_LEV_7_RX_QLTY_3	ACCUMULATION	INT8	S4173D: Number of MRs on Downlink TCHH (Receive Level Rank 7 and Receive Quality Rank 3)	B1275071622.C1278274540	Sum	

#### 7.48.27TRX.Huawei.GSM.TCHH\_receive\_level\_UL

TCHH receive level for uplink

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
HR_UP_LEV_0_RX_QLTY_0	ACCUMULATION	INT8	S4100C: Number of MRs on Uplink TCHH (Receive Level Rank 0 and Receive Quality Rank 0)	B1275071622.C1278274417	Sum	
HR_UP_LEV_0_RX_QLTY_1	ACCUMULATION	INT8	S4101C: Number of MRs on Uplink TCHH (Receive Level Rank 0 and Receive Quality Rank 1)	B1275071622.C1278274418	Sum	
HR_UP_LEV_0_RX_QLTY_2	ACCUMULATION	INT8	S4102C: Number of MRs on Uplink TCHH (Receive Level Rank 0 and	B1275071622.C1278274419	Sum	

			Receive Quality Rank 2)			
HR_UP_LEV_0_RX_QLTY_3	ACCUMULATION	INT8	S4103C: Number of MRs on Uplink TCHH (Receive Level Rank 0 and Receive Quality Rank 3)	B1275071622.C1278274420	Sum	
HR_UP_LEV_0_RX_QLTY_4	ACCUMULATION	INT8	S4104C: Number of MRs on Uplink TCHH (Receive Level Rank 0 and Receive Quality Rank 4)	B1275071622.C1278274421	Sum	
HR_UP_LEV_0_RX_QLTY_5	ACCUMULATION	INT8	S4105C: Number of MRs on Uplink TCHH (Receive Level Rank 0 and Receive Quality Rank 5)	B1275071622.C1278274422	Sum	
HR_UP_LEV_0_RX_QLTY_6	ACCUMULATION	INT8	S4106C: Number of MRs on Uplink TCHH (Receive Level Rank 0 and Receive Quality Rank 6)	B1275071622.C1278274423	Sum	
HR_UP_LEV_0_RX_QLTY_7	ACCUMULATION	INT8	S4107C: Number of MRs on Uplink TCHH (Receive Level Rank 0 and Receive Quality Rank 7)	B1275071622.C1278274424	Sum	
HR_UP_LEV_0_RX_QLTY_8	ACCUMULATION	INT8	S4110C: Number of MRs on Uplink TCHH (Receive Level Rank 0 and Receive Quality Rank 8)	B1275071622.C1278274425	Sum	

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1_RX_QLTY_0	TION		r of MRs on Uplink TCHH (Receive Level Rank 1 and Receive Quality Rank 0)	8274425		
HR_UP_LEV_1_RX_QLTY_1	ACCUMULATION	INT8	S4111C: Number of MRs on Uplink TCHH (Receive Level Rank 1 and Receive Quality Rank 1)	B1275071622.C127 8274426	Sum	
HR_UP_LEV_1_RX_QLTY_2	ACCUMULATION	INT8	S4112C: Number of MRs on Uplink TCHH (Receive Level Rank 1 and Receive Quality Rank 2)	B1275071622.C127 8274427	Sum	
HR_UP_LEV_1_RX_QLTY_3	ACCUMULATION	INT8	S4113C: Number of MRs on Uplink TCHH (Receive Level Rank 1 and Receive Quality Rank 3)	B1275071622.C127 8274428	Sum	
HR_UP_LEV_1_RX_QLTY_4	ACCUMULATION	INT8	S4114C: Number of MRs on Uplink TCHH (Receive Level Rank 1 and Receive Quality Rank 4)	B1275071622.C127 8274429	Sum	
HR_UP_LEV_1_RX_QLTY_5	ACCUMULATION	INT8	S4115C: Number of MRs on Uplink TCHH (Receive Level Rank 1 and Receive Quality Rank 5)	B1275071622.C127 8274430	Sum	
HR_UP_LEV_1_RX_QLTY_6	ACCUMULATION	INT8	S4116C: Number of MRs on Uplink TCHH (Receive Level Rank 1 and Receive Quality Rank 6)	B1275071622.C127 8274431	Sum	

1_RX_QLTY_6	TION		r of MRs on Uplink TCHH (Receive Level Rank 1 and Receive Quality Rank 6)	8274431		
HR_UP_LEV_1_RX_QLTY_7	ACCUMULATION	INT8	S4117C: Number of MRs on Uplink TCHH (Receive Level Rank 1 and Receive Quality Rank 7)	B1275071622.C127 8274432	Sum	
HR_UP_LEV_2_RX_QLTY_0	ACCUMULATION	INT8	S4120C: Number of MRs on Uplink TCHH (Receive Level Rank 2 and Receive Quality Rank 0)	B1275071622.C127 8274433	Sum	
HR_UP_LEV_2_RX_QLTY_1	ACCUMULATION	INT8	S4121C: Number of MRs on Uplink TCHH (Receive Level Rank 2 and Receive Quality Rank 1)	B1275071622.C127 8274434	Sum	
HR_UP_LEV_2_RX_QLTY_2	ACCUMULATION	INT8	S4122C: Number of MRs on Uplink TCHH (Receive Level Rank 2 and Receive Quality Rank 2)	B1275071622.C127 8274435	Sum	
HR_UP_LEV_2_RX_QLTY_3	ACCUMULATION	INT8	S4123C: Number of MRs on Uplink TCHH (Receive Level	B1275071622.C127 8274436	Sum	

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			Rank 2 and Receive Quality Rank 3)			
HR_UP_LEV_2_RX_QLTY_4	ACCUMULATION	INT8	S4124C: Number of MRs on Uplink TCHH (Receive Level Rank 2 and Receive Quality Rank 4)	B1275071622.C1278274437	Sum	
HR_UP_LEV_2_RX_QLTY_5	ACCUMULATION	INT8	S4125C: Number of MRs on Uplink TCHH (Receive Level Rank 2 and Receive Quality Rank 5)	B1275071622.C1278274438	Sum	
HR_UP_LEV_2_RX_QLTY_6	ACCUMULATION	INT8	S4126C: Number of MRs on Uplink TCHH (Receive Level Rank 2 and Receive Quality Rank 6)	B1275071622.C1278274439	Sum	
HR_UP_LEV_2_RX_QLTY_7	ACCUMULATION	INT8	S4127C: Number of MRs on Uplink TCHH (Receive Level Rank 2 and Receive Quality Rank 7)	B1275071622.C1278274440	Sum	
HR_UP_LEV_3_RX_QLTY_0	ACCUMULATION	INT8	S4130C: Number of MRs on Uplink TCHH (Receive Level Rank 3 and Receive Quality Rank 0)	B1275071622.C1278274441	Sum	
HR_UP_LEV_3_RX_QLTY_1	ACCUMULATION	INT8	S4131C: Number of MRs on Uplink TCHH (Receive Level	B1275071622.C1278274442	Sum	

			Rank 3 and Receive Quality Rank 1)			
HR_UP_LEV_3_RX_QLTY_2	ACCUMULATION	INT8	S4132C: Number of MRs on Uplink TCHH (Receive Level Rank 3 and Receive Quality Rank 2)	B1275071622.C1278274443	Sum	
HR_UP_LEV_3_RX_QLTY_3	ACCUMULATION	INT8	S4133C: Number of MRs on Uplink TCHH (Receive Level Rank 3 and Receive Quality Rank 3)	B1275071622.C1278274444	Sum	
HR_UP_LEV_3_RX_QLTY_4	ACCUMULATION	INT8	S4134C: Number of MRs on Uplink TCHH (Receive Level Rank 3 and Receive Quality Rank 4)	B1275071622.C1278274445	Sum	
HR_UP_LEV_3_RX_QLTY_5	ACCUMULATION	INT8	S4135C: Number of MRs on Uplink TCHH (Receive Level Rank 3 and Receive Quality Rank 5)	B1275071622.C1278274446	Sum	
HR_UP_LEV_3_RX_QLTY_6	ACCUMULATION	INT8	S4136C: Number of MRs on Uplink TCHH (Receive Level Rank 3 and Receive Quality Rank 6)	B1275071622.C1278274447	Sum	

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HR_UP_LEV_3_RX_QLTY_7	ACCUMULATION	INT8	S4137C: Number of MRs on Uplink TCHH (Receive Level Rank 3 and Receive Quality Rank 7)	B1275071622.C1278274448	Sum	
HR_UP_LEV_4_RX_QLTY_0	ACCUMULATION	INT8	S4140C: Number of MRs on Uplink TCHH (Receive Level Rank 4 and Receive Quality Rank 0)	B1275071622.C1278274449	Sum	
HR_UP_LEV_4_RX_QLTY_1	ACCUMULATION	INT8	S4141C: Number of MRs on Uplink TCHH (Receive Level Rank 4 and Receive Quality Rank 1)	B1275071622.C1278274450	Sum	
HR_UP_LEV_4_RX_QLTY_2	ACCUMULATION	INT8	S4142C: Number of MRs on Uplink TCHH (Receive Level Rank 4 and Receive Quality Rank 2)	B1275071622.C1278274451	Sum	
HR_UP_LEV_4_RX_QLTY_3	ACCUMULATION	INT8	S4143C: Number of MRs on Uplink TCHH (Receive Level Rank 4 and Receive Quality Rank 3)	B1275071622.C1278274452	Sum	
HR_UP_LEV_4_RX_QLTY_4	ACCUMULATION	INT8	S4144C: Number of MRs on Uplink TCHH (Receive Level Rank 4 and Receive Quality Rank 4)	B1275071622.C1278274453	Sum	

HR_UP_LEV_4_RX_QLTY_5	ACCUMULATION	INT8	S4145C: Number of MRs on Uplink TCHH (Receive Level Rank 4 and Receive Quality Rank 5)	B1275071622.C1278274454	Sum	
HR_UP_LEV_4_RX_QLTY_6	ACCUMULATION	INT8	S4146C: Number of MRs on Uplink TCHH (Receive Level Rank 4 and Receive Quality Rank 6)	B1275071622.C1278274455	Sum	
HR_UP_LEV_4_RX_QLTY_7	ACCUMULATION	INT8	S4147C: Number of MRs on Uplink TCHH (Receive Level Rank 4 and Receive Quality Rank 7)	B1275071622.C1278274456	Sum	
HR_UP_LEV_5_RX_QLTY_0	ACCUMULATION	INT8	S4150C: Number of MRs on Uplink TCHH (Receive Level Rank 5 and Receive Quality Rank 0)	B1275071622.C1278274457	Sum	
HR_UP_LEV_5_RX_QLTY_1	ACCUMULATION	INT8	S4151C: Number of MRs on Uplink TCHH (Receive Level Rank 5 and Receive Quality Rank 1)	B1275071622.C1278274458	Sum	
HR_UP_LEV_5_RX_QLTY_2	ACCUMULATION	INT8	S4152C: Number of MRs on Uplink TCHH	B1275071622.C1278274459	Sum	

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			(Receive Level Rank 5 and Receive Quality Rank 2)			
HR_UP_LEV_5_RX_QLTY_3	ACCUMULATION	INT8	S4153C: Number of MRs on Uplink TCHH (Receive Level Rank 5 and Receive Quality Rank 3)	B1275071622.C1278274460	Sum	
HR_UP_LEV_5_RX_QLTY_4	ACCUMULATION	INT8	S4154C: Number of MRs on Uplink TCHH (Receive Level Rank 5 and Receive Quality Rank 4)	B1275071622.C1278274461	Sum	
HR_UP_LEV_5_RX_QLTY_5	ACCUMULATION	INT8	S4155C: Number of MRs on Uplink TCHH (Receive Level Rank 5 and Receive Quality Rank 5)	B1275071622.C1278274462	Sum	
HR_UP_LEV_5_RX_QLTY_6	ACCUMULATION	INT8	S4156C: Number of MRs on Uplink TCHH (Receive Level Rank 5 and Receive Quality Rank 6)	B1275071622.C1278274463	Sum	
HR_UP_LEV_5_RX_QLTY_7	ACCUMULATION	INT8	S4157C: Number of MRs on Uplink TCHH (Receive Level Rank 5 and Receive Quality Rank 7)	B1275071622.C1278274464	Sum	
HR_UP_LEV_6_RX_QLTY_0	ACCUMULATION	INT8	S4160C: Number of MRs on Uplink TCHH	B1275071622.C1278274465	Sum	

			(Receive Level Rank 6 and Receive Quality Rank 0)			
HR_UP_LEV_6_RX_QLTY_1	ACCUMULATION	INT8	S4161C: Number of MRs on Uplink TCHH (Receive Level Rank 6 and Receive Quality Rank 1)	B1275071622.C127 8274466	Sum	
HR_UP_LEV_6_RX_QLTY_2	ACCUMULATION	INT8	S4162C: Number of MRs on Uplink TCHH (Receive Level Rank 6 and Receive Quality Rank 2)	B1275071622.C127 8274467	Sum	
HR_UP_LEV_6_RX_QLTY_3	ACCUMULATION	INT8	S4163C: Number of MRs on Uplink TCHH (Receive Level Rank 6 and Receive Quality Rank 3)	B1275071622.C127 8274468	Sum	
HR_UP_LEV_6_RX_QLTY_4	ACCUMULATION	INT8	S4164C: Number of MRs on Uplink TCHH (Receive Level Rank 6 and Receive Quality Rank 4)	B1275071622.C127 8274469	Sum	
HR_UP_LEV_6_RX_QLTY_5	ACCUMULATION	INT8	S4165C: Number of MRs on Uplink TCHH (Receive Level Rank 6 and Receive Quality Rank 5)	B1275071622.C127 8274470	Sum	

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			Rank 5)			
HR_UP_LEV_6_RX_QLTY_6	ACCUMULATION	INT8	S4166C: Number of MRs on Uplink TCHH (Receive Level Rank 6 and Receive Quality Rank 6)	B1275071622.C1278274471	Sum	
HR_UP_LEV_6_RX_QLTY_7	ACCUMULATION	INT8	S4167C: Number of MRs on Uplink TCHH (Receive Level Rank 6 and Receive Quality Rank 7)	B1275071622.C1278274472	Sum	
HR_UP_LEV_7_RX_QLTY_0	ACCUMULATION	INT8	S4170C: Number of MRs on Uplink TCHH (Receive Level Rank 7 and Receive Quality Rank 0)	B1275071622.C1278274473	Sum	
HR_UP_LEV_7_RX_QLTY_1	ACCUMULATION	INT8	S4171C: Number of MRs on Uplink TCHH (Receive Level Rank 7 and Receive Quality Rank 1)	B1275071622.C1278274474	Sum	
HR_UP_LEV_7_RX_QLTY_2	ACCUMULATION	INT8	S4172C: Number of MRs on Uplink TCHH (Receive Level Rank 7 and Receive Quality Rank 2)	B1275071622.C1278274475	Sum	
HR_UP_LEV_7_RX_QLTY_3	ACCUMULATION	INT8	S4173C: Number of MRs on Uplink TCHH (Receive Level Rank 7 and Receive Quality	B1275071622.C1278274476	Sum	

			Rank 3)			
HR_UP_LEV_7_RX_QLTY_4	ACCUMULATION	INT8	S4174C: Number of MRs on Uplink TCHH (Receive Level Rank 7 and Receive Quality Rank 4)	B1275071622.C1278274477	Sum	
HR_UP_LEV_7_RX_QLTY_5	ACCUMULATION	INT8	S4175C: Number of MRs on Uplink TCHH (Receive Level Rank 7 and Receive Quality Rank 5)	B1275071622.C1278274478	Sum	
HR_UP_LEV_7_RX_QLTY_6	ACCUMULATION	INT8	S4176C: Number of MRs on Uplink TCHH (Receive Level Rank 7 and Receive Quality Rank 6)	B1275071622.C1278274479	Sum	
HR_UP_LEV_7_RX_QLTY_7	ACCUMULATION	INT8	S4177C: Number of MRs on Uplink TCHH (Receive Level Rank 7 and Receive Quality Rank 7)	B1275071622.C1278274480	Sum	

**7.48.28TRX.Huawei.GSM.TRX\_power**

KPIs to measure the data related to the TRX power control.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
TRX_PWR_A	ACCUMULATION	INT8	S4016A:Trx	B1275069433.C127	Sum	

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DJUST_OFF_DUR	TION		power adjust off duration	6085417		
TRX_TS_PWR_ADJUST_OF_F_TIMES	ACCUMULATION	INT8	S4016B:Trx Ts power adjust off times	B1275069433.C1276085418	Sum	

#### 7.48.29TRX.Huawei.GSM.TRX\_state

state of the TRX

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
SERV_OOS	ACCUMULATION	INT8	R473:TRX Out-of-Service Duration	B1275069421.C1276073417	Sum	
TOT_BUR_CNT_CUT_0_5dB_PWR	ACCUMULATION	INT8	R476:The total BURST count cut 0.5dB power	B1275069421.C1276073420	Sum	
TOT_BUR_CNT_CUT_1_0dB_PWR	ACCUMULATION	INT8	R477:The total BURST count cut 1.0dB power	B1275069421.C1276073421	Sum	
TOT_BUR_CNT_CUT_1_5dB_PWR	ACCUMULATION	INT8	R478:The total BURST count cut 1.5dB power	B1275069421.C1276073422	Sum	
TOT_BUR_CNT_CUT_2PLUSdB_PWR	ACCUMULATION	INT8	R479:The total BURST count cut 2.0dB and above power	B1275069421.C1276073423	Sum	
TOT_BUR_CNT_RX_LV_GTMINUS20dB	ACCUMULATION	INT8	R480:The total BURST count Rx Level >= -20dB	B1275069421.C1276073424	Sum	
TOT_BUR_CNT_RX_LV_MINUS25_20dB	ACCUMULATION	INT8	R481:The total BURST count Rx Level range in [-25, -20dB)	B1275069421.C1276073425	Sum	

TOT_BUR_CNT_RX_LV_MINUS30_25dB	ACCUMULATION	INT8	R482:The total BURST count Rx Level range in [-30, -25dB)	B1275069421.C1276073426	Sum	
TOT_BURST_CNT_CUT_25_PWR	ACCUMULATION	INT8	R483:The total BURST count cut 2.5dB power	B1275069421.C1282411785	Sum	
TOT_BURST_CNT_CUT_30_ABOVE_PWR	ACCUMULATION	INT8	R484:The total BURST count cut 3.0dB and above power	B1275069421.C1282411786	Sum	
TRX_TURN_OFF_TRX_PA_DURATION	ACCUMULATION	INT8	R474:Duration of TRX turning off power amplifier	B1275069421.C1276073418	Sum	
TRX_TURN_OFF_TS_PA_TIMES	ACCUMULATION	INT8	R475:Times of TRX turning off time slot power amplifier	B1275069421.C1276073419	Sum	

**7.48.30TRX.Huawei.GSM.TRX\_trans\_packet**

TRX transmit and receive for packet

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
RX_CS_LOST	ACCUMULATION	INT8	S4003A:Received but Lost CS Packets	B1275069429.C1276081422	Sum	hucsvbh, huctvbh
RX_CS_PACK_NUM	ACCUMULATION	INT8	S4000A:Received CS Packets	B1275069429.C1276081420	Sum	hucsvbh, huctvbh
RX_CS_TRAFFIC	ACCUMULATION	INT8	S4000B:Received CS Bytes	B1275069429.C1276081421	Sum	hucsvbh, huctvbh
RX_PS_LOST	ACCUMULATION	INT8	S4004A:Received	B1275069429.C127	Sum	hucsvbh,

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	TION		ed but Lost PS Packets	6081428		huctvbh
RX_PS_PACK_NUM	ACCUMULATION	INT8	S4001A:Received PS Packets	B1275069429.C127 6081426	Sum	hucsvbh, huctvbh
RX_PS_TRAFFIC_NUM	ACCUMULATION	INT8	S4001B:Received PS Bytes	B1275069429.C127 6081427	Sum	hucsvbh, huctvbh
RX_SIGNALING_LOST	ACCUMULATION	INT8	S4005A:Received but Lost Signaling-Plane Packets	B1275069429.C127 6081434	Sum	hucsvbh, huctvbh
RX_SIGNALING_PACK_NUM	ACCUMULATION	INT8	S4002A:Received Signaling-Plane Packets	B1275069429.C127 6081432	Sum	hucsvbh, huctvbh
RX_SIGNALING_TRAFFIC	ACCUMULATION	INT8	S4002B:Received Signaling-Plane Bytes	B1275069429.C127 6081433	Sum	hucsvbh, huctvbh
TX_CS_LOST	ACCUMULATION	INT8	S4013A:Sent but Lost CS Packets	B1275069429.C127 6081419	Sum	hucsvbh, huctvbh
TX_CS_PACK_NUM	ACCUMULATION	INT8	S4010A:Sent CS Packets	B1275069429.C127 6081417	Sum	hucsvbh, huctvbh
TX_CS_TRAFFIC_NUM	ACCUMULATION	INT8	S4010B:Sent CS Bytes	B1275069429.C127 6081418	Sum	hucsvbh, huctvbh
TX_PS_LOST	ACCUMULATION	INT8	S4014A:Sent but Lost PS Packets	B1275069429.C127 6081425	Sum	hucsvbh, huctvbh
TX_PS_PACK_NUM	ACCUMULATION	INT8	S4011A:Sent PS Packets	B1275069429.C127 6081423	Sum	hucsvbh, huctvbh
TX_PS_TRAFFIC_NUM	ACCUMULATION	INT8	S4011B:Sent PS Bytes	B1275069429.C127 6081424	Sum	hucsvbh, huctvbh
TX_SIGNALING_LOST	ACCUMULATION	INT8	S4015A:Sent but Lost Signaling-Plane Packets	B1275069429.C127 6081431	Sum	hucsvbh, huctvbh
TX_SIGNALING_PACK_NUM	ACCUMULATION	INT8	S4012A:Sent Signaling-Plane Packets	B1275069429.C127 6081429	Sum	hucsvbh, huctvbh

TX_SIGNALIN G_TRAFFIC	ACCUMULA TION	INT8	S4012B:Sent Signaling-Plane Bytes	B1275069429.C127 6081430	Sum	hucsvbh, huctvbh
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### 7.48.31TRX.Huawei.GSM.Uplinkanddownlink\_balance

Uplink and downlink balance levels

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
BALANCE_LE V_10	ACCUMULA TION	INT8	S462J:Number of MRs (Uplink-and- Downlink Balance Level = 10)	B1275071624.C127 8276426	Sum	
BALANCE_LE V_11	ACCUMULA TION	INT8	S462K:Number of MRs (Uplink-and- Downlink Balance Level = 11)	B1275071624.C127 8276427	Sum	
BALANCE_LE V_1	ACCUMULA TION	INT8	S462A:Number of MRs (Uplink-and- Downlink Balance Level = 1)	B1275071624.C127 8276417	Sum	
BALANCE_LE V_2	ACCUMULA TION	INT8	S462B:Number of MRs (Uplink-and- Downlink Balance Level = 2)	B1275071624.C127 8276418	Sum	
BALANCE_LE V_3	ACCUMULA TION	INT8	S462C:Number of MRs (Uplink-and-	B1275071624.C127 8276419	Sum	

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			Downlink Balance Level = 3)			
BALANCE_LE V_4	ACCUMULA TION	INT8	S462D: Number of MRs (Uplink-and- Downlink Balance Level = 4)	B1275071624.C127 8276420	Sum	
BALANCE_LE V_5	ACCUMULA TION	INT8	S462E: Number of MRs (Uplink-and- Downlink Balance Level = 5)	B1275071624.C127 8276421	Sum	
BALANCE_LE V_6	ACCUMULA TION	INT8	S462F: Number of MRs (Uplink-and- Downlink Balance Level = 6)	B1275071624.C127 8276422	Sum	
BALANCE_LE V_7	ACCUMULA TION	INT8	S462G: Number of MRs (Uplink-and- Downlink Balance Level = 7)	B1275071624.C127 8276423	Sum	
BALANCE_LE V_8	ACCUMULA TION	INT8	S462H: Number of MRs (Uplink-and- Downlink Balance Level = 8)	B1275071624.C127 8276424	Sum	
BALANCE_LE V_9	ACCUMULA TION	INT8	S462I: Number of MRs (Uplink-and- Downlink Balance Level = 9)	B1275071624.C127 8276425	Sum	

**7.48.32TRX.Huawei.GSM.User\_defined\_MRs\_frames**

Frames - User defined MRs

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
AVG_FR_ERASE_WBAMR_CUST_MR	INTENSITY	INT8	S4562B:Average Frame Erasion Rate of the WBAMR FR in the Customized MR	B1275071629.C1282423815	Average	Average, Maximum, Minimum, Sum
DL_FR_HR_AMR_795_CUST_MR	ACCUMULATION	INT8	S4535A:Numbe r of Downlink Frames with HR AMR of 7.95 kbit/s in the Customized MR	B1275071629.C1278281507	Sum	
DL_FR_WBAMR_1265_CUST_MR	ACCUMULATION	INT8	S4555W:Numbe r of Downlink Frames with WBAMR of 12.65 kbit/s in the Customized MR	B1275071629.C1282411477	Sum	
DL_FR_WBAMR_660_CUST_MR	ACCUMULATION	INT8	S4551W:Numbe r of Downlink Frames with WBAMR of 6.60 kbit/s in the Customized MR	B1275071629.C1282411472	Sum	
DL_FR_WBAMR_885_CUST_MR	ACCUMULATION	INT8	S4553W:Numbe r of Downlink Frames with WBAMR of 8.85 kbit/s in the Customized MR	B1275071629.C1282411475	Sum	

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EXT_AMR_FR_1020_DN_NUM	ACCUMULATION	INT8	S4537: Number of Downlink Frames with FR AMR of 10.2 kbit/s in the Customized MR	B1275071629.C12 78281453	Sum	
EXT_AMR_FR_1020_UP_NUM	ACCUMULATION	INT8	S4536: Number of Uplink Frames with FR AMR of 10.2 kbit/s in the Customized MR	B1275071629.C12 78281452	Sum	
EXT_AMR_FR_1220_DN_NUM	ACCUMULATION	INT8	S4539: Number of Downlink Frames with FR AMR of 12.2 kbit/s in the Customized MR	B1275071629.C12 78281455	Sum	
EXT_AMR_FR_1220_UP_NUM	ACCUMULATION	INT8	S4538: Number of Uplink Frames with FR AMR of 12.2 kbit/s in the Customized MR	B1275071629.C12 78281454	Sum	
EXT_AMR_FR_475_DN_NUM	ACCUMULATION	INT8	S4525: Number of Downlink Frames with FR AMR of 4.75 kbit/s in the Customized MR	B1275071629.C12 78281441	Sum	
EXT_AMR_FR_475_UP_NUM	ACCUMULATION	INT8	S4524: Number of Uplink Frames with FR AMR of 4.75 kbit/s in the Customized MR	B1275071629.C12 78281440	Sum	
EXT_AMR_FR_515_DN_NUM	ACCUMULATION	INT8	S4527: Number of Downlink Frames with FR AMR of 5.15 kbit/s in the Customized MR	B1275071629.C12 78281443	Sum	

EXT_AMR_FR_515_UP_NUM	ACCUMULATION	INT8	S4526: Number of Uplink Frames with FR AMR of 5.15 kbit/s in the Customized MR	B1275071629.C12 78281442	Sum	
EXT_AMR_FR_590_DN_NUM	ACCUMULATION	INT8	S4529: Number of Downlink Frames with FR AMR of 5.90 kbit/s in the Customized MR	B1275071629.C12 78281445	Sum	
EXT_AMR_FR_590_UP_NUM	ACCUMULATION	INT8	S4528: Number of Uplink Frames with FR AMR of 5.90 kbit/s in the Customized MR	B1275071629.C12 78281444	Sum	
EXT_AMR_FR_670_DN_NUM	ACCUMULATION	INT8	S4531: Number of Downlink Frames with FR AMR of 6.70 kbit/s in the Customized MR	B1275071629.C12 78281447	Sum	
EXT_AMR_FR_670_UP_NUM	ACCUMULATION	INT8	S4530: Number of Uplink Frames with FR AMR of 6.70 kbit/s in the Customized MR	B1275071629.C12 78281446	Sum	
EXT_AMR_FR_740_DN_NUM	ACCUMULATION	INT8	S4533: Number of Downlink Frames with FR AMR of 7.40 kbit/s in the Customized MR	B1275071629.C12 78281449	Sum	
EXT_AMR_FR_740_UP_NUM	ACCUMULATION	INT8	S4532: Number of Uplink	B1275071629.C12 78281448	Sum	

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UM			Frames with FR AMR of 7.40 kbit/s in the Customized MR			
EXT_AMR_FR_795_DN_NUM	ACCUMULATION	INT8	S4535: Number of Downlink Frames with FR AMR of 7.95 kbit/s in the Customized MR	B1275071629.C12 78281451	Sum	
EXT_AMR_FR_795_UP_NUM	ACCUMULATION	INT8	S4534: Number of Uplink Frames with FR AMR of 7.95 kbit/s in the Customized MR	B1275071629.C12 78281450	Sum	
EXT_AMR_HR_475_DN_NUM	ACCUMULATION	INT8	S4541: Number of Downlink Frames with HR AMR of 4.75 kbit/s in the Customized MR	B1275071629.C12 78281457	Sum	
EXT_AMR_HR_475_UP_NUM	ACCUMULATION	INT8	S4540: Number of Uplink Frames with HR AMR of 4.75 kbit/s in the Customized MR	B1275071629.C12 78281456	Sum	
EXT_AMR_HR_515_DN_NUM	ACCUMULATION	INT8	S4543: Number of Downlink Frames with HR AMR of 5.15 kbit/s in the Customized MR	B1275071629.C12 78281459	Sum	
EXT_AMR_HR_515_UP_NUM	ACCUMULATION	INT8	S4542: Number of Uplink Frames with HR AMR of 5.15 kbit/s in the Customized MR	B1275071629.C12 78281458	Sum	
EXT_AMR_H	ACCUMULATION	INT8	S4545: Number	B1275071629.C12	Sum	

R_590_DN_NUM	TION		of Downlink Frames with HR AMR of 5.90 kbit/s in the Customized MR	78281461		
EXT_AMR_HR_590_UP_NUM	ACCUMULATION	INT8	S4544: Number of Uplink Frames with HR AMR of 5.90 kbit/s in the Customized MR	B1275071629.C12 78281460	Sum	
EXT_AMR_HR_670_DN_NUM	ACCUMULATION	INT8	S4547: Number of Downlink Frames with HR AMR of 6.70 kbit/s in the Customized MR	B1275071629.C12 78281463	Sum	
EXT_AMR_HR_670_UP_NUM	ACCUMULATION	INT8	S4546: Number of Uplink Frames with HR AMR of 6.70 kbit/s in the Customized MR	B1275071629.C12 78281462	Sum	
EXT_AMR_HR_740_DN_NUM	ACCUMULATION	INT8	S4549: Number of Downlink Frames with HR AMR of 7.40 kbit/s in the Customized MR	B1275071629.C12 78281465	Sum	
EXT_AMR_HR_740_UP_NUM	ACCUMULATION	INT8	S4548: Number of Uplink Frames with HR AMR of 7.40 kbit/s in the Customized MR	B1275071629.C12 78281464	Sum	
EXT_AMR_TCHF_ERASE_FRM_AVG_R	INTENSITY	INT8	S4562A: Average Frame Erasion Rate of the	B1275071629.C12 78281502	Average	Average, Maximum,

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ATE			AMR FR in the Customized MR			Minimum, Sum
EXT_AMR_T CHF_ERASE_ FRM_RATE_ NUM	ACCUMULA TION	INT8	S4511A:Numbe r of the Measurements of the Frame Erasion Rate of the AMR FR in the Customized MR	B1275071629.C12 78281500	Sum	
EXT_AMR_T CHF_ERASE_ FRM_TOT_R ATE	ACCUMULA TION	INT8	S4512A:Total Frame Erasion Rate of the AMR FR in the Customized MR	B1275071629.C12 78281501	Sum	
EXT_AMR_T CHH_ERASE_ FRM_AVG_ RATE	INTENSITY	INT8	S4565A:Averag e Frame Erasion Rate of the AMR HR in the Customized MR	B1275071629.C12 78281505	Average	Average, Maximu m, Minimu m, Sum
EXT_AMR_T CHH_ERASE_ FRM_RATE_ NUM	ACCUMULA TION	INT8	S4563A:Numbe r of the Measurements of the Frame Erasion Rate of the AMR HR in the Customized MR	B1275071629.C12 78281503	Sum	
EXT_AMR_T CHH_ERASE_ FRM_TOT_ RATE	ACCUMULA TION	INT8	S4564A:Total Frame Erasion Rate of the AMR HR in the Customized MR	B1275071629.C12 78281504	Sum	
EXT_EFR_TC H_DN_NUM	ACCUMULA TION	INT8	S4553:Number of Downlink Frames Among the EFR Frames in the Customized MR	B1275071629.C12 78281469	Sum	
EXT_EFR_TC H_UP_NUM	ACCUMULA TION	INT8	S4552:Number of Uplink	B1275071629.C12 78281468	Sum	

			Frames Among the EFR Frames in the Customized MR			
EXT_ERASE_FRM_AVR_RATE	INTENSITY	INTEGER	S4562:Average Frame Erasion Rate of the FR in the Customized MR	round((B1275071629.C1278281428/C1278281427),0)	Average	Average, Maximum, Minimum, Sum
EXT_FR_TCH_DN_NUM	ACCUMULATION	INT8	S4551:Number of Downlink Frames Among the FR Frames in the Customized MR	B1275071629.C1278281467	Sum	
EXT_FR_TCH_UP_NUM	ACCUMULATION	INT8	S4550:Number of Uplink Frames Among the FR Frames in the Customized MR	B1275071629.C1278281466	Sum	
EXT_HR_TCH_DN_NUM	ACCUMULATION	INT8	S4555:Number of Downlink Frames Among the HR Frames in the Customized MR	B1275071629.C1278281471	Sum	
EXT_HR_TCH_UP_NUM	ACCUMULATION	INT8	S4554:Number of Uplink Frames Among the HR Frames in the Customized MR	B1275071629.C1278281470	Sum	
EXT_TCHF_ERASE_FRM_AVR_RATE	ACCUMULATION	INT8	S4563:Number of the Measurements of the Frame Erasion Rate of	B1275071629.C1278281497	Sum	

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			the HR in the Customized MR			
EXT_TCHF_ERASE_FRM_RATE_NUM	ACCUMULATION	INT8	S4511: Number of the Measurements of the Frame Erasion Rate of the FR in the Customized MR	B1275071629.C1278281427	Sum	
EXT_TCHF_ERASE_FRM_TOTAL_RATE	ACCUMULATION	INT8	S4512: Total Frame Erasion Rate of the FR in the Customized MR	B1275071629.C1278281428	Sum	
EXT_TCHH_ERASE_FRAME_AVG_RATE	INTENSITY	INT8	S4565: Average Frame Erasion Rate of the HR in the Customized MR	B1275071629.C1278281499	Average	Average, Maximum, Minimum, Sum
EXT_TCHH_ERASE_FRAME_TOT_RATE	ACCUMULATION	INT8	S4564: Total Frame Erasion Rate of the HR in the Customized MR	B1275071629.C1278281498	Sum	
FR_ERASE_RATE_WBAMR_CUST_MR	ACCUMULATION	INT8	S4511B: Number of the Measurements of the Frame Erasion Rate of the WBAMR FR in the Customized MR	B1275071629.C1282411493	Sum	
Rate_FR_in_the_Cust_MR	INTENSITY	FLOAT	S4562: Average Frame Erasion Rate of the FR in the Customized MR	B1275071629.C1278281479	Average	Sum, Minimum, Maximum
TOT_FR_ERASE_WBAMR_CUST_MR	ACCUMULATION	INT8	S4512B: Total Frame Erasion Rate of the WBAMR FR in	B1275071629.C1282411494	Sum	

			the Customized MR			
UL_FR_HR_AMR_795_CUST_MR	ACCUMULATION	INT8	S4534A: Number of Uplink Frames with HR AMR of 7.95 kbit/s in the Customized MR	B1275071629.C1278281506	Sum	
UL_FR_WBAMR_1265_CUST_MR	ACCUMULATION	INT8	S4554W: Number of Uplink Frames with WBAMR of 12.65 kbit/s in the Customized MR	B1275071629.C1282411476	Sum	
UL_FR_WBAMR_660_CUST_MR	ACCUMULATION	INT8	S4550W: Number of Uplink Frames with WBAMR of 6.60 kbit/s in the Customized MR	B1275071629.C1282411471	Sum	
UL_FR_WBAMR_885_CUST_MR	ACCUMULATION	INT8	S4552W: Number of Uplink Frames with WBAMR of 8.85 kbit/s in the Customized MR	B1275071629.C1282411473	Sum	

**7.48.33TRX.Huawei.GSM.User\_defined\_MRs\_power**

Power - User defined MRs

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
EXT_DN_LE	INTENSITY	INT8	S4561: Average	B1275071629.C127	Average	Average,

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V_AVR_PWR			Downlink Power in the Customized MR	8281477		Maximum, Minimum, Sum
EXT_DN_LEV_TOTAL_PWR	ACCUMULATION	INT8	S4510:Downlink Power in the Customized MR	B1275071629.C1278281426	Sum	
EXT_MAIN_RX_AVR_LEV	INTENSITY	INT8	S4556:Average Main Level in the Customized MR	B1275071629.C1278281472	Average	Average, Maximum, Minimum, Sum
EXT_MAIN_RX_LEV	ACCUMULATION	INT8	S4502:Number of Measurements of the Main Level in the Customized MR	B1275071629.C1278281418	Sum	
EXT_RX_LEV_NUM	ACCUMULATION	INT8	S4501:Number of Measurements of the Main and Diversity Levels in the Customized MR	B1275071629.C1278281417	Sum	
EXT_SUB_RX_AVR_LEV	INTENSITY	INT8	S4557:Average Diversity Level in the Customized MR	B1275071629.C1278281473	Average	Average, Maximum, Minimum, Sum
EXT_SUB_RX_LEV	ACCUMULATION	INT8	S4503:Number of Measurements of the Diversity Level in the Customized MR	B1275071629.C1278281419	Sum	
EXT_UP_DN_LEV_PWR_NUM	ACCUMULATION	INT8	S4508:Number of the Measurements of the Uplink and Downlink	B1275071629.C1278281424	Sum	

			Power in the Customized MR			
EXT_UP_LEV_AVR_PWR	INTENSITY	INT8	S4560:Average Uplink Power in the Customized MR	B1275071629.C1278281476	Average	Average, Maximum, Minimum, Sum
EXT_UP_LEV_TOTAL_PWR	ACCUMULATION	INT8	S4509:Uplink Power in the Customized MR	B1275071629.C1278281425	Sum	

**7.48.34TRX.Huawei.GSM.User\_defined\_MRs\_voice\_quality**

Voice quality - user defined MRs

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
Avg_EFR_UL_VQI_Cust_MR	INTENSITY	FLOAT	S4558E:Average Measurement Value of the EFR UL VQI (Voice Quality Index) in the Customized MR	B1275071629.C1282447963	Average	Sum, Minimum, Maximum
Avg_WBAMR_UL_VQI_Cust_MR	INTENSITY	FLOAT	S4558W:Average Measurement Value of the WBAMR UL VQI (Voice Quality Index) in the Customized MR	B1275071629.C1282447982	Average	Sum, Minimum, Maximum
Cust_MR_s_AMR_FR_UL_05_1	ACCUMULATION	INTEGER	S4514AF:Number of the	B1275071629.C1282429647	Sum	

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0			Customized MRs with AMR FR UL Voice Quality Being Higher than 0.5 and Lower than 1.0			
Cust_MRs_AMR_FR_UL_05	ACCUMULATION	INTEGER	S4513AF: Number of the Customized MRs with AMR FR UL Voice Quality Being Lower than 0.5	B1275071629.C12 82429646	Sum	
Cust_MRs_AMR_FR_UL_10_15	ACCUMULATION	INTEGER	S4515AF: Number of the Customized MRs with AMR FR UL Voice Quality Being Higher than 1.0 and Lower than 1.5	B1275071629.C12 82429648	Sum	
Cust_MRs_AMR_FR_UL_15_20	ACCUMULATION	INTEGER	S4516AF: Number of the Customized MRs with AMR FR UL Voice Quality Being Higher than 1.5 and Lower than 2.0	B1275071629.C12 82429649	Sum	
Cust_MRs_AMR_FR_UL_20_25	ACCUMULATION	INTEGER	S4517AF: Number of the Customized MRs with AMR FR UL Voice Quality Being Higher than 2.0 and Lower than 2.5	B1275071629.C12 82429650	Sum	
Cust_MRs_AM	ACCUMULATION	INTEGER	S4518AF: Num	B1275071629.C12	Sum	

R_FR_UL_25_30	TION	ER	ber of the Customized MRs with AMR FR UL Voice Quality Being Higher than 2.5 and Lower than 3.0	82429651		
Cust_MRs_AMR_FR_UL_30_35	ACCUMULATION	INTEGER	S4519AF: Number of the Customized MRs with AMR FR UL Voice Quality Being Higher than 3.0 and Lower than 3.5	B1275071629.C12 82429652	Sum	
Cust_MRs_AMR_FR_UL_35_40	ACCUMULATION	INTEGER	S4520AF: Number of the Customized MRs with AMR FR UL Voice Quality Being Higher than 3.5 and Lower than 4.0	B1275071629.C12 82429653	Sum	
Cust_MRs_AMR_FR_UL_40_45	ACCUMULATION	INTEGER	S4521AF: Number of the Customized MRs with AMR FR UL Voice Quality Being Higher than 4.0 and Lower than 4.5	B1275071629.C12 82429654	Sum	
Cust_MRs_AMR_FR_UL_45_50	ACCUMULATION	INTEGER	S4522AF: Number of the Customized MRs with	B1275071629.C12 82429655	Sum	

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			AMR FR UL Voice Quality Being Higher than 4.5 and Lower than 5.0			
Cust_MRs_AM R_FR_UL_50	ACCUMULA TION	INTEG ER	S4523AF:Num ber of the Customized MRs with AMR FR UL Voice Quality Being Higher than 5.0	B1275071629.C12 82429656	Sum	
Cust_MRs_AM R_HR_UL_05_ 10	ACCUMULA TION	INTEG ER	S4514AH:Num ber of the Customized MRs with AMR HR UL Voice Quality Being Higher than 0.5 and Lower than 1.0	B1275071629.C12 82447976	Sum	
Cust_MRs_AM R_HR_UL_05	ACCUMULA TION	INTEG ER	S4513AH:Num ber of the Customized MRs with AMR HR UL Voice Quality Being Lower than 0.5	B1275071629.C12 82447975	Sum	
Cust_MRs_AM R_HR_UL_10_ 15	ACCUMULA TION	INTEG ER	S4515AH:Num ber of the Customized MRs with AMR HR UL Voice Quality Being Higher than 1.0 and Lower than 1.5	B1275071629.C12 82447977	Sum	
Cust_MRs_AM R_HR_UL_15_ 20	ACCUMULA TION	INTEG ER	S4516AH:Num ber of the Customized MRs with	B1275071629.C12 82447978	Sum	

			AMR HR UL Voice Quality Being Higher than 1.5 and Lower than 2.0			
Cust_MRs_AM R_HR_UL_20_ 25	ACCUMULA TION	INTEG ER	S4517AH:Num ber of the Customized MRs with AMR HR UL Voice Quality Being Higher than 2.0 and Lower than 2.5	B1275071629.C12 82447979	Sum	
Cust_MRs_AM R_HR_UL_25_ 30	ACCUMULA TION	INTEG ER	S4518AH:Num ber of the Customized MRs with AMR HR UL Voice Quality Being Higher than 2.5 and Lower than 3.0	B1275071629.C12 82447980	Sum	
Cust_MRs_AM R_HR_UL_30_ 35	ACCUMULA TION	INTEG ER	S4519AH:Num ber of the Customized MRs with AMR HR UL Voice Quality Being Higher than 3.0 and Lower than 3.5	B1275071629.C12 82447981	Sum	
Cust_MRs_AM R_HR_UL_35_ 40	ACCUMULA TION	INTEG ER	S4520AH:Num ber of the Customized MRs with AMR HR UL Voice Quality Being Higher	B1275071629.C12 82429657	Sum	

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			than 3.5 and Lower than 4.0		
Cust_MRs_AMR_HR_UL_40_45	ACCUMULATION	INTEGER	S4521AH: Number of the Customized MRs with AMR HR UL Voice Quality Being Higher than 4.0 and Lower than 4.5	B1275071629.C12 82429658	Sum
Cust_MRs_AMR_HR_UL_45_50	ACCUMULATION	INTEGER	S4522AH: Number of the Customized MRs with AMR HR UL Voice Quality Being Higher than 4.5 and Lower than 5.0	B1275071629.C12 82429659	Sum
Cust_MRs_AMR_HR_UL_50	ACCUMULATION	INTEGER	S4523AH: Number of the Customized MRs with AMR HR UL Voice Quality Being Higher than 5.0	B1275071629.C12 82429660	Sum
Cust_MRs_EFR_UL_05_10	ACCUMULATION	INTEGER	S4514E: Number of the Customized MRs with EFR UL Voice Quality Being Higher than 0.5 and Lower than 1.0	B1275071629.C12 82429636	Sum
Cust_MRs_EFR_UL_05	ACCUMULATION	INTEGER	S4513E: Number of the Customized MRs with EFR UL Voice Quality Being	B1275071629.C12 82429635	Sum

			Lower than 0.5			
Cust_MRs_EFR_UL_10_15	ACCUMULATION	INTEGER	S4515E: Number of the Customized MRs with EFR UL Voice Quality Being Higher than 1.0 and Lower than 1.5	B1275071629.C12 82429637	Sum	
Cust_MRs_EFR_UL_15_20	ACCUMULATION	INTEGER	S4516E: Number of the Customized MRs with EFR UL Voice Quality Being Higher than 1.5 and Lower than 2.0	B1275071629.C12 82429638	Sum	
Cust_MRs_EFR_UL_20_25	ACCUMULATION	INTEGER	S4517E: Number of the Customized MRs with EFR UL Voice Quality Being Higher than 2.0 and Lower than 2.5	B1275071629.C12 82429639	Sum	
Cust_MRs_EFR_UL_25_30	ACCUMULATION	INTEGER	S4518E: Number of the Customized MRs with EFR UL Voice Quality Being Higher than 2.5 and Lower than 3.0	B1275071629.C12 82429640	Sum	
Cust_MRs_EFR	ACCUMULATION	INTEGER	S4519E: Numbe	B1275071629.C12	Sum	

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_UL_30_35	TION	ER	r of the Customized MRs with EFR UL Voice Quality Being Higher than 3.0 and Lower than 3.5	82429641		
Cust_MRs_EFR_UL_35_40	ACCUMULATION	INTEGER	S4520E: Number of the Customized MRs with EFR UL Voice Quality Being Higher than 3.5 and Lower than 4.0	B1275071629.C12 82429642	Sum	
Cust_MRs_EFR_UL_40_45	ACCUMULATION	INTEGER	S4521E: Number of the Customized MRs with EFR UL Voice Quality Being Higher than 4.0 and Lower than 4.5	B1275071629.C12 82429643	Sum	
Cust_MRs_EFR_UL_45_50	ACCUMULATION	INTEGER	S4522E: Number of the Customized MRs with EFR UL Voice Quality Being Higher than 4.5 and Lower than 5.0	B1275071629.C12 82429644	Sum	
Cust_MRs_EFR_UL_50	ACCUMULATION	INTEGER	S4523E: Number of the Customized MRs with EFR UL Voice Quality Being Higher than 5.0	B1275071629.C12 82429645	Sum	
Cust_MRs_FR_	ACCUMULATION	INTEGER	S4514F: Numbe	B1275071629.C12	Sum	

UL_05_10	TION	ER	r of the Customized MRs with FR UL Voice Quality Being Higher than 0.5 and Lower than 1.0	82429625		
Cust_MRs_FR_UL_05	ACCUMULATION	INTEGER	S4513F: Number of the Customized MRs with FR UL Voice Quality Being Lower than 0.5	B1275071629.C12 82429624	Sum	
Cust_MRs_FR_UL_10_15	ACCUMULATION	INTEGER	S4515F: Number of the Customized MRs with FR UL Voice Quality Being Higher than 1.0 and Lower than 1.5	B1275071629.C12 82429626	Sum	
Cust_MRs_FR_UL_15_20	ACCUMULATION	INTEGER	S4516F: Number of the Customized MRs with FR UL Voice Quality Being Higher than 1.5 and Lower than 2.0	B1275071629.C12 82429627	Sum	
Cust_MRs_FR_UL_20_25	ACCUMULATION	INTEGER	S4517F: Number of the Customized MRs with FR UL Voice Quality Being	B1275071629.C12 82429628	Sum	

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			Higher than 2.0 and Lower than 2.5			
Cust_MRs_FR_UL_25_30	ACCUMULATION	INTEGER	S4518F: Number of the Customized MRs with FR UL Voice Quality Being Higher than 2.5 and Lower than 3.0	B1275071629.C12 82429629	Sum	
Cust_MRs_FR_UL_30_35	ACCUMULATION	INTEGER	S4519F: Number of the Customized MRs with FR UL Voice Quality Being Higher than 3.0 and Lower than 3.5	B1275071629.C12 82429630	Sum	
Cust_MRs_FR_UL_35_40	ACCUMULATION	INTEGER	S4520F: Number of the Customized MRs with FR UL Voice Quality Being Higher than 3.5 and Lower than 4.0	B1275071629.C12 82429631	Sum	
Cust_MRs_FR_UL_40_45	ACCUMULATION	INTEGER	S4521F: Number of the Customized MRs with FR UL Voice Quality Being Higher than 4.0 and Lower than 4.5	B1275071629.C12 82429632	Sum	
Cust_MRs_FR_UL_45_50	ACCUMULATION	INTEGER	S4522F: Number of the Customized MRs with FR	B1275071629.C12 82429633	Sum	

			UL Voice Quality Being Higher than 4.5 and Lower than 5.0			
Cust_MRs_FR_UL_50	ACCUMULATION	INTEGER	S4523F: Number of the Customized MRs with FR UL Voice Quality Being Higher than 5.0	B1275071629.C12 82429634	Sum	
Cust_MRs_HR_UL_05_10	ACCUMULATION	INTEGER	S4514H: Number of the Customized MRs with HR UL Voice Quality Being Higher than 0.5 and Lower than 1.0	B1275071629.C12 82447965	Sum	
Cust_MRs_HR_UL_05	ACCUMULATION	INTEGER	S4513H: Number of the Customized MRs with HR UL Voice Quality Being Lower than 0.5	B1275071629.C12 82447964	Sum	
Cust_MRs_HR_UL_10_15	ACCUMULATION	INTEGER	S4515H: Number of the Customized MRs with HR UL Voice Quality Being Higher than 1.0 and Lower than 1.5	B1275071629.C12 82447966	Sum	
Cust_MRs_HR_	ACCUMULATION	INTEGER	S4516H: Numb	B1275071629.C12	Sum	

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UL_15_20	TION	ER	er of the Customized MRs with HR UL Voice Quality Being Higher than 1.5 and Lower than 2.0	82447967		
Cust_MRs_HR_UL_20_25	ACCUMULATION	INTEGER	S4517H: Number of the Customized MRs with HR UL Voice Quality Being Higher than 2.0 and Lower than 2.5	B1275071629.C12 82447968	Sum	
Cust_MRs_HR_UL_25_30	ACCUMULATION	INTEGER	S4518H: Number of the Customized MRs with HR UL Voice Quality Being Higher than 2.5 and Lower than 3.0	B1275071629.C12 82447969	Sum	
Cust_MRs_HR_UL_30_35	ACCUMULATION	INTEGER	S4519H: Number of the Customized MRs with HR UL Voice Quality Being Higher than 3.0 and Lower than 3.5	B1275071629.C12 82447970	Sum	
Cust_MRs_HR_UL_35_40	ACCUMULATION	INTEGER	S4520H: Number of the Customized MRs with HR UL Voice Quality Being Higher than 3.5 and Lower than	B1275071629.C12 82447971	Sum	

			4.0			
Cust_MRs_HR_UL_40_45	ACCUMULATION	INTEGER	S4521H: Number of the Customized MRs with HR UL Voice Quality Being Higher than 4.0 and Lower than 4.5	B1275071629.C12 82447972	Sum	
Cust_MRs_HR_UL_45_50	ACCUMULATION	INTEGER	S4522H: Number of the Customized MRs with HR UL Voice Quality Being Higher than 4.5 and Lower than 5.0	B1275071629.C12 82447973	Sum	
Cust_MRs_HR_UL_50	ACCUMULATION	INTEGER	S4523H: Number of the Customized MRs with HR UL Voice Quality Being Higher than 5.0	B1275071629.C12 82447974	Sum	
CUST_MRS_WBAMR_VQ_RANK_ABOVE_50	ACCUMULATION	INT8	S4523B: Number of Customized MRs with WBAMR Voice Quality Rank Greater than 5.0	B1275071629.C12 82411492	Sum	
CUST_MRS_WBAMR_VQ_RANK_BELOW_05	ACCUMULATION	INT8	S4513B: Number of Customized MRs with WBAMR Voice Quality	B1275071629.C12 82411482	Sum	

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			Rank Smaller than 0.5			
CUST_MRSW BAMR_VQ_R K_05_10	ACCUMULATION	INT8	S4514B: Number of Customized MRs with WBAMR Voice Quality Rank Greater than 0.5 and Smaller than 1.0	B1275071629.C12 82411483	Sum	
CUST_MRSW BAMR_VQ_R K_10_15	ACCUMULATION	INT8	S4515B: Number of Customized MRs with WBAMR Voice Quality Rank Greater than 1.0 and Smaller than 1.5	B1275071629.C12 82411484	Sum	
CUST_MRSW BAMR_VQ_R K_15_20	ACCUMULATION	INT8	S4516B: Number of Customized MRs with WBAMR Voice Quality Rank Greater than 1.5 and Smaller than 2.0	B1275071629.C12 82411485	Sum	
CUST_MRSW BAMR_VQ_R K_20_25	ACCUMULATION	INT8	S4517B: Number of Customized MRs with WBAMR Voice Quality Rank Greater than 2.0 and Smaller than 2.5	B1275071629.C12 82411486	Sum	
CUST_MRSW BAMR_VQ_R K_25_30	ACCUMULATION	INT8	S4518B: Number of Customized MRs with WBAMR Voice Quality	B1275071629.C12 82411487	Sum	

			Rank Greater than 2.5 and Smaller than 3.0			
CUST_MRSW BAMR_VQ_R K_30_35	ACCUMULATION	INT8	S4519B: Number of Customized MRs with WBAMR Voice Quality Rank Greater than 3.0 and Smaller than 3.5	B1275071629.C12 82411488	Sum	
CUST_MRSW BAMR_VQ_R K_35_40	ACCUMULATION	INT8	S4520B: Number of Customized MRs with WBAMR Voice Quality Rank Greater than 3.5 and Smaller than 4.0	B1275071629.C12 82411489	Sum	
CUST_MRSW BAMR_VQ_R K_40_45	ACCUMULATION	INT8	S4521B: Number of Customized MRs with WBAMR Voice Quality Rank Greater than 4.0 and Smaller than 4.5	B1275071629.C12 82411490	Sum	
CUST_MRSW BAMR_VQ_R K_45_50	ACCUMULATION	INT8	S4522B: Number of Customized MRs with WBAMR Voice Quality Rank Greater than 4.5 and Smaller than	B1275071629.C12 82411491	Sum	

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			5.0			
EFR_UL_VQI_Cust_MR	ACCUMULATION	INTEGER	S4504E: Number of the Measurements of the EFR UL VQI (Voice Quality Index) in the Customized MR	B1275071629.C12 82429622	Sum	
EXT_AMR_FR_SHORT_AVR_VQI	INTENSITY	FLOAT	S4558A: Average AMR FR VQI (Voice Quality Index) in the Customized MR	B1275071629.C12 78281484	Average	Average, Maximum, Minimum, Sum
EXT_AMR_FR_SHORT_TOTAL_VQI	ACCUMULATION	INT8	S4505A: Total Number of the Measurements of the AMR FR VQI (Voice Quality Index) in the Customized MR	B1275071629.C12 78281481	Sum	
EXT_AMR_FR_SHORT_VQI_NUM	ACCUMULATION	INT8	S4504A: Number of the Measurements of the AMR FR VQI (Voice Quality Index) in the Customized MR	B1275071629.C12 78281480	Sum	
EXT_AMR_HR_SHORT_AVR_VQI	INTENSITY	FLOAT	S4559A: Average AMR HR VQI (Voice Quality Index) in the Customized MR	B1275071629.C12 78281485	Average	Average, Maximum, Minimum, Sum

EXT_AMR_HR_SHORT_TOTAL_VQI	ACCUMULATION	INT8	S4507A:Total Number of the Measurements of the AMR HR VQI(Voice Quality Index) in the Customized MR	B1275071629.C12 78281483	Sum	
EXT_AMR_HR_SHORT_VQI_NUM	ACCUMULATION	INT8	S4506A:Number of the Measurements of the AMR HR VQI(Voice Quality Index) in the Customized MR	B1275071629.C12 78281482	Sum	
EXT_AMR_VQI_050_RANK_RPT_NUM	ACCUMULATION	INT8	S4514A:Number of Customized MRs with AMR Voice Quality Rank Greater than 0.5 and Smaller than 1.0	B1275071629.C12 78281487	Sum	
EXT_AMR_VQI_100_RANK_RPT_NUM	ACCUMULATION	INT8	S4515A:Number of Customized MRs with AMR Voice Quality Rank Greater than 1.0 and Smaller than 1.5	B1275071629.C12 78281488	Sum	
EXT_AMR_VQI_150_RANK_RPT_NUM	ACCUMULATION	INT8	S4516A:Number of Customized	B1275071629.C12 78281489	Sum	

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			MRs with AMR Voice Quality Rank Greater than 1.5 and Smaller than 2.0			
EXT_AMR_VQ I_200_RANK_ RPT_NUM	ACCUMULATION	INT8	S4517A: Number of Customized MRs with AMR Voice Quality Rank Greater than 2.0 and Smaller than 2.5	B1275071629.C12 78281490	Sum	
EXT_AMR_VQ I_250_RANK_ RPT_NUM	ACCUMULATION	INT8	S4518A: Number of Customized MRs with AMR Voice Quality Rank Greater than 2.5 and Smaller than 3.0	B1275071629.C12 78281491	Sum	
EXT_AMR_VQ I_300_RANK_ RPT_NUM	ACCUMULATION	INT8	S4519A: Number of Customized MRs with AMR Voice Quality Rank Greater than 3.0 and Smaller than 3.5	B1275071629.C12 78281492	Sum	
EXT_AMR_VQ I_350_RANK_ RPT_NUM	ACCUMULATION	INT8	S4520A: Number of Customized MRs with AMR Voice Quality Rank Greater than 3.5 and Smaller than 4.0	B1275071629.C12 78281493	Sum	
EXT_AMR_VQ	ACCUMULATION	INT8	S4521A: Numb	B1275071629.C12	Sum	

I_400_RANK_RPT_NUM	TION		er of Customized MRs with AMR Voice Quality Rank Greater than 4.0 and Smaller than 4.5	78281494		
EXT_AMR_VQ I_450_RANK_RPT_NUM	ACCUMULATION	INT8	S4522A: Number of Customized MRs with AMR Voice Quality Rank Greater than 4.5 and Smaller than 5.0	B1275071629.C12 78281495	Sum	
EXT_AMR_VQ I_500_RANK_RPT_NUM	ACCUMULATION	INT8	S4523A: Number of Customized MRs with AMR Voice Quality Rank Greater than 5.0	B1275071629.C12 78281496	Sum	
EXT_AMR_VQ I_INIT_RANK_RPT_NUM	ACCUMULATION	INT8	S4513A: Number of Customized MRs with AMR Voice Quality Rank Smaller than 0.5	B1275071629.C12 78281486	Sum	
EXT_FR_SHORT_AVR_VQI	INTENSITY	FLOAT	S4558: Average FR VQI (Voice Quality Index) in the Customized MR	B1275071629.C12 78281474	Average	Average, Maximum, Minimum, Sum

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EXT_FR_SHORT_TOTAL_VQI	ACCUMULATION	INT8	S4505:Total Number of the Measurements of the FR VQI(Voice Quality Index) in the Customized MR	B1275071629.C12 78281421	Sum	
EXT_FR_SHORT_VQI_NUM	ACCUMULATION	INT8	S4504:Number of the Measurements of the FR VQI(Voice Quality Index) in the Customized MR	B1275071629.C12 78281420	Sum	
EXT_HR_SHORT_AVR_VQI	INTENSITY	FLOAT	S4559:Average HR VQI(Voice Quality Index) in the Customized MR	B1275071629.C12 78281475	Average	Average, Maximum, Minimum, Sum
EXT_HR_SHORT_TOTAL_VQI	ACCUMULATION	INT8	S4507:Total Number of the Measurements of the VQI(Voice Quality Index) in the Customized MR	B1275071629.C12 78281423	Sum	
EXT_HR_SHORT_VQI_NUM	ACCUMULATION	INT8	S4506:Number of the Measurements of the HR VQI(Voice Quality Index) in the Customized MR	B1275071629.C12 78281422	Sum	
EXT_VQI_050_	ACCUMULATION	INT8	S4514:Number	B1275071629.C12	Sum	

RANK_RPT_NUM	TION		of Customized MRs with Voice Quality Rank Greater than 0.5 and Smaller than 1.0	78281430		
EXT_VQI_100_RANK_RPT_NUM	ACCUMULATION	INT8	S4515: Number of Customized MRs with Voice Quality Rank Greater than 1.0 and Smaller than 1.5	B1275071629.C12 78281431	Sum	
EXT_VQI_150_RANK_RPT_NUM	ACCUMULATION	INT8	S4516: Number of Customized MRs with Voice Quality Rank Greater than 1.5 and Smaller than 2.0	B1275071629.C12 78281432	Sum	
EXT_VQI_200_RANK_RPT_NUM	ACCUMULATION	INT8	S4517: Number of Customized MRs with Voice Quality Rank Greater than 2.0 and Smaller than 2.5	B1275071629.C12 78281433	Sum	
EXT_VQI_250_RANK_RPT_NUM	ACCUMULATION	INT8	S4518: Number of Customized MRs with Voice Quality Rank Greater than 2.5 and Smaller than 3.0	B1275071629.C12 78281434	Sum	

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EXT_VQI_300_RANK_RPT_NUM	ACCUMULATION	INT8	S4519: Number of Customized MRs with Voice Quality Rank Greater than 3.0 and Smaller than 3.5	B1275071629.C12 78281435	Sum	
EXT_VQI_350_RANK_RPT_NUM	ACCUMULATION	INT8	S4520: Number of Customized MRs with Voice Quality Rank Greater than 3.5 and Smaller than 4.0	B1275071629.C12 78281436	Sum	
EXT_VQI_400_RANK_RPT_NUM	ACCUMULATION	INT8	S4521: Number of Customized MRs with Voice Quality Rank Greater than 4.0 and Smaller than 4.5	B1275071629.C12 78281437	Sum	
EXT_VQI_450_RANK_RPT_NUM	ACCUMULATION	INT8	S4522: Number of Customized MRs with Voice Quality Rank Greater than 4.5 and Smaller than 5.0	B1275071629.C12 78281438	Sum	
EXT_VQI_500_RANK_RPT_NUM	ACCUMULATION	INT8	S4523: Number of Customized MRs with Voice Quality Rank Greater than 5.0	B1275071629.C12 78281439	Sum	
EXT_VQI_INIT_RANK_RPT_NUM	ACCUMULATION	INT8	S4513: Number of Customized MRs with Voice Quality Rank Smaller	B1275071629.C12 78281429	Sum	

			than 0.5			
Tot_EFR_UL_VQI_Cust_MR	ACCUMULATION	INTEGER	S4505E:Total Measurement Value of the EFR UL VQI (Voice Quality Index) in the Customized MR	B1275071629.C12 82429623	Sum	
Tot_WBAMR_UL_VQI_Cust_MR	ACCUMULATION	INTEGER	S4505W:Total Measurement Value of the WBAMR UL VQI (Voice Quality Index) in the Customized MR	B1275071629.C12 82429661	Sum	
WBAMR_UL_VQI_Cust_MR	ACCUMULATION	INTEGER	S4504W:Number of the Measurements of the WBAMR UL VQI (Voice Quality Index) in the Customized MR	B1275071629.C12 82429662	Sum	

## 7.49 TRX\_LOCGRP Performance Indicators

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

- [TRX\\_LOCGRP.Huawei.GSM.Channel\\_seizure](#)
- [TRX\\_LOCGRP.Huawei.GSM.Interference\\_band](#)
- [TRX\\_LOCGRP.Huawei.GSM.MR\\_per\\_TA](#)
- [TRX\\_LOCGRP.Huawei.GSM.Receive\\_quality](#)
- [TRX\\_LOCGRP.Huawei.GSM.Uplink\\_downlink\\_balance](#)

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### 7.49.1 TRX\_LOCGRP.Huawei.GSM.Channel\_seizure

Measurement to measure the seizure of various types of channels in various service procedures in the location group.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
ATT_IMDT_ASG_SDCCH	ACCUMULATION	INT8	TR4400A: Attempted Immediate Assignments (SDCCH) in One Location Group	B1290793532.C128 2411917	Sum	
ATT_IMDT_ASG_TCH	ACCUMULATION	INT8	TR4409A: Attempted Immediate Assignments (TCH) in One Location Group	B1290793532.C128 2412045	Sum	
SUCC_IMDT_ASG_SDCCH	ACCUMULATION	INT8	TR4400B: Successful Immediate Assignments (SDCCH) in One Location Group	B1290793532.C128 2411919	Sum	
SUCC_IMDT_ASG_TCH	ACCUMULATION	INT8	TR4409B: Successful Immediate Assignments (TCH) in One Location Group	B1290793532.C128 2411918	Sum	

### 7.49.2 TRX\_LOCGRP.Huawei.GSM.Interference\_band

Measurement to measure the distribution of idle channels on the TRXs in the location group in the interference band.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
MEAN_SDCCH_S_IFER_BAND1	INTENSITY	FLOAT	TAS4200A: Mean Number of SDCCHs in	B1290793534.C1282 423991	Average	Sum, Minimum,

			Interference Band 1 in One Location Group			Maximum
MEAN_SDCCHS_IFER_BAND2	INTENSITY	FLOAT	TAS4200B:Mean Number of SDCCHs in Interference Band 2 in One Location Group	B1290793534.C1282423992	Average	Sum, Minimum, Maximum
MEAN_SDCCHS_IFER_BAND3	INTENSITY	FLOAT	TAS4200C:Mean Number of SDCCHs in Interference Band 3 in One Location Group	B1290793534.C1282423993	Average	Sum, Minimum, Maximum
MEAN_SDCCHS_IFER_BAND4	INTENSITY	FLOAT	TAS4200D:Mean Number of SDCCHs in Interference Band 4 in One Location Group	B1290793534.C1282423994	Average	Sum, Minimum, Maximum
MEAN_SDCCHS_IFER_BAND5	INTENSITY	FLOAT	TAS4200E:Mean Number of SDCCHs in Interference Band 5 in One Location Group	B1290793534.C1282423995	Average	Sum, Minimum, Maximum
MEAN_TCHF_IFER_BAND1	INTENSITY	FLOAT	TAS4207A:Mean Number of TCHFs in Interference Band 1 in One Location Group	B1290793534.C1282423996	Average	Sum, Minimum, Maximum
MEAN_TCHF_IFER_BAND2	INTENSITY	FLOAT	TAS4207B:Mean Number of TCHFs in Interference Band 2 in One	B1290793534.C1282423997	Average	Sum, Minimum, Maximum

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			Location Group			
MEAN_TCHF5 _IFER_BAND3	INTENSI TY	FLOA T	TAS4207C:Mea n Number of TCHF5 in Interference Band 3 in One Location Group	B1290793534.C1282 423998	Average	Sum, Minimu m, Maximu m
MEAN_TCHF5 _IFER_BAND4	INTENSI TY	FLOA T	TAS4207D:Mea n Number of TCHF5 in Interference Band 4 in One Location Group	B1290793534.C1282 423999	Average	Sum, Minimu m, Maximu m
MEAN_TCHF5 _IFER_BAND5	INTENSI TY	FLOA T	TAS4207E:Mea n Number of TCHF5 in Interference Band 5 in One Location Group	B1290793534.C1282 424000	Average	Sum, Minimu m, Maximu m
MEAN_TCHH5 _IFER_BAND1	INTENSI TY	FLOA T	TAS4208A:Mea n Number of TCHH5 in Interference Band 1 in One Location Group	B1290793534.C1282 424001	Average	Sum, Minimu m, Maximu m
MEAN_TCHH5 _IFER_BAND2	INTENSI TY	FLOA T	TAS4208B:Mea n Number of TCHH5 in Interference Band 2 in One Location Group	B1290793534.C1282 424002	Average	Sum, Minimu m, Maximu m
MEAN_TCHH5 _IFER_BAND3	INTENSI TY	FLOA T	TAS4208C:Mea n Number of TCHH5 in Interference Band 3 in One Location Group	B1290793534.C1282 424003	Average	Sum, Minimu m, Maximu m
MEAN_TCHH5 _IFER_BAND4	INTENSI TY	FLOA T	TAS4208D:Mea n Number of TCHH5 in Interference	B1290793534.C1282 424004	Average	Sum, Minimu m, Maximu

			Band 4 in One Location Group			m
MEAN_TCHHS_IFER_BAND5	INTENSITY	FLOAT	TAS4208E:Mean Number of TCHHS in Interference Band 5 in One Location Group	B1290793534.C1282424005	Average	Sum, Minimum, Maximum

### 7.49.3 TRX\_LOCGRP.Huawei.GSM.MR\_per\_TA

KPIs related to the number of MRs from the BTS with a certain TA range.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
MRS_TA_0	ACCUMULATION	INT8	TS4400A: Number of MRs(TA = 0) in One Location Group	B1290793535.C1282412000	Sum	
MRS_TA_10	ACCUMULATION	INT8	TS4410A: Number of MRs(TA = 10) in One Location Group	B1290793535.C1282412010	Sum	
MRS_TA_11	ACCUMULATION	INT8	TS4411A: Number of MRs(TA = 11) in One Location Group	B1290793535.C1282412011	Sum	
MRS_TA_12	ACCUMULATION	INT8	TS4412A: Number of MRs(TA = 12) in One Location Group	B1290793535.C1282412012	Sum	
MRS_TA_13	ACCUMULATION	INT8	TS4413A: Number of MRs(TA = 13) in One Location Group	B1290793535.C1282412013	Sum	
MRS_TA_14	ACCUMULATION	INT8	TS4414A: Num	B1290793535.C128	Sum	

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	TION		ber of MRs(TA = 14) in One Location Group	2412014		
MRS_TA_15	ACCUMULATION	INT8	TS4415A: Number of MRs(TA = 15) in One Location Group	B1290793535.C128 2412015	Sum	
MRS_TA_16	ACCUMULATION	INT8	TS4416A: Number of MRs(TA = 16) in One Location Group	B1290793535.C128 2412016	Sum	
MRS_TA_17	ACCUMULATION	INT8	TS4417A: Number of MRs(TA = 17) in One Location Group	B1290793535.C128 2412017	Sum	
MRS_TA_18	ACCUMULATION	INT8	TS4418A: Number of MRs(TA = 18) in One Location Group	B1290793535.C128 2412018	Sum	
MRS_TA_19	ACCUMULATION	INT8	TS4419A: Number of MRs(TA = 19) in One Location Group	B1290793535.C128 2412019	Sum	
MRS_TA_1	ACCUMULATION	INT8	TS4401A: Number of MRs(TA = 1) in One Location Group	B1290793535.C128 2412001	Sum	
MRS_TA_20	ACCUMULATION	INT8	TS4420A: Number of MRs(TA = 20) in One Location Group	B1290793535.C128 2412020	Sum	
MRS_TA_21	ACCUMULATION	INT8	TS4421A: Number of MRs(TA = 21) in One Location Group	B1290793535.C128 2412021	Sum	
MRS_TA_22	ACCUMULATION	INT8	TS4422A: Number of MRs(TA = 22) in One Location Group	B1290793535.C128 2412022	Sum	
MRS_TA_23	ACCUMULATION	INT8	TS4423A: Num	B1290793535.C128	Sum	

	TION		ber of MRs(TA = 23) in One Location Group	2412023		
MRS_TA_24	ACCUMULATION	INT8	TS4424A: Number of MRs(TA = 24) in One Location Group	B1290793535.C128 2412024	Sum	
MRS_TA_25	ACCUMULATION	INT8	TS4425A: Number of MRs(TA = 25) in One Location Group	B1290793535.C128 2412025	Sum	
MRS_TA_26	ACCUMULATION	INT8	TS4426A: Number of MRs(TA = 26) in One Location Group	B1290793535.C128 2412026	Sum	
MRS_TA_27	ACCUMULATION	INT8	TS4427A: Number of MRs(TA = 27) in One Location Group	B1290793535.C128 2412027	Sum	
MRS_TA_28	ACCUMULATION	INT8	TS4428A: Number of MRs(TA = 28) in One Location Group	B1290793535.C128 2412028	Sum	
MRS_TA_29	ACCUMULATION	INT8	TS4429A: Number of MRs(TA = 29) in One Location Group	B1290793535.C128 2412029	Sum	
MRS_TA_2	ACCUMULATION	INT8	TS4402A: Number of MRs(TA = 2) in One Location Group	B1290793535.C128 2412002	Sum	
MRS_TA_30_T O_31	ACCUMULATION	INT8	TS4430A: Number of MRs (TA = 30 to 31) in One Location Group	B1290793535.C128 2412030	Sum	

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MRS_TA_32_T O_33	ACCUMULATION	INT8	TS4432A: Number of MRs (TA = 32 to 33) in One Location Group	B1290793535.C128 2412031	Sum	
MRS_TA_34_T O_35	ACCUMULATION	INT8	TS4434A: Number of MRs (TA = 34 to 35) in One Location Group	B1290793535.C128 2412032	Sum	
MRS_TA_36_T O_37	ACCUMULATION	INT8	TS4436A: Number of MRs (TA = 36 to 37) in One Location Group	B1290793535.C128 2412033	Sum	
MRS_TA_38_T O_39	ACCUMULATION	INT8	TS4438A: Number of MRs (TA = 38 to 39) in One Location Group	B1290793535.C128 2412034	Sum	
MRS_TA_3	ACCUMULATION	INT8	TS4403A: Number of MRs (TA = 3) in One Location Group	B1290793535.C128 2412003	Sum	
MRS_TA_40_T O_44	ACCUMULATION	INT8	TS4440A: Number of MRs (TA = 40 to 44) in One Location Group	B1290793535.C128 2412035	Sum	
MRS_TA_45_T O_49	ACCUMULATION	INT8	TS4445A: Number of MRs (TA = 45 to 49) in One Location Group	B1290793535.C128 2412036	Sum	
MRS_TA_4	ACCUMULATION	INT8	TS4404A: Number of MRs (TA = 4) in One Location Group	B1290793535.C128 2412004	Sum	
MRS_TA_50_T O_54	ACCUMULATION	INT8	TS4450A: Number of MRs (TA = 50 to 54) in	B1290793535.C128 2412037	Sum	

			One Location Group			
MRS_TA_55_TO_63	ACCUMULATION	INT8	TS4455A: Number of MRs (TA = 55 to 63) in One Location Group	B1290793535.C1282412038	Sum	
MRS_TA_5	ACCUMULATION	INT8	TS4405A: Number of MRs (TA = 5) in One Location Group	B1290793535.C1282412005	Sum	
MRS_TA_6	ACCUMULATION	INT8	TS4406A: Number of MRs (TA = 6) in One Location Group	B1290793535.C1282412006	Sum	
MRS_TA_7	ACCUMULATION	INT8	TS4407A: Number of MRs (TA = 7) in One Location Group	B1290793535.C1282412007	Sum	
MRS_TA_8	ACCUMULATION	INT8	TS4408A: Number of MRs (TA = 8) in One Location Group	B1290793535.C1282412008	Sum	
MRS_TA_9	ACCUMULATION	INT8	TS4409A: Number of MRs (TA = 9) in One Location Group	B1290793535.C1282412009	Sum	
MRS_TA_GREATER_THAN_63	ACCUMULATION	INT8	TS4463A: Number of MRs (TA greater than 63) in One Location Group	B1290793535.C1282412039	Sum	
TOT_MR	ACCUMULATION	INT8	Total Number of MRs in One Location Group	B1290793535.C1282412000 + C1282412001 + C1282412002 +	Sum	

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				C1282412003 + C1282412004 + C1282412005 + C1282412006 + C1282412007 + C1282412008 + C1282412009 + C1282412010 + C1282412011 + C1282412012 + C1282412013 + C1282412014 + C1282412015 + C1282412016 + C1282412017 + C1282412018 + C1282412019 + C1282412020 + C1282412021 + C1282412022 + C1282412023 + C1282412024 + C1282412025 + C1282412026 + C1282412027 + C1282412028 + C1282412029 + C1282412030 + C1282412031 + C1282412032 + C1282412033 + C1282412034 + C1282412035 + C1282412036 + C1282412037 + C1282412038 + C1282412039		
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#### 7.49.4 TRX\_LOCGRP.Huawei.GSM.Receive\_quality

Measurement to measure the receive quality in the MRs received on the TCHs of the TRXs in the location group.

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

MRS_TCHF_DL_RX_QUALITY_RK0	ACCUMULATION	INT8	TCS410B: Number of MRs on TCHF in One Location Group (Downlink Receive Quality Rank 0)	B1290793533.C1282411951	Sum	
MRS_TCHF_DL_RX_QUALITY_RK1	ACCUMULATION	INT8	TCS411B: Number of MRs on TCHF in One Location Group (Downlink Receive Quality Rank 1)	B1290793533.C1282411952	Sum	
MRS_TCHF_DL_RX_QUALITY_RK2	ACCUMULATION	INT8	TCS412B: Number of MRs on TCHF in One Location Group (Downlink Receive Quality Rank 2)	B1290793533.C1282411953	Sum	
MRS_TCHF_DL_RX_QUALITY_RK3	ACCUMULATION	INT8	TCS413B: Number of MRs on TCHF in One Location Group (Downlink Receive Quality Rank 3)	B1290793533.C1282411954	Sum	
MRS_TCHF_DL_RX_QUALITY_RK4	ACCUMULATION	INT8	TCS414B: Number of MRs on TCHF in One Location Group (Downlink Receive Quality Rank 4)	B1290793533.C1282411955	Sum	
MRS_TCHF_DL_RX_QUALITY_RK5	ACCUMULATION	INT8	TCS415B: Number of MRs on TCHF in One	B1290793533.C1282411956	Sum	

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			Location Group (Downlink Receive Quality Rank 5)			
MRS_TCHF_DL_RX_QUALITY_RK6	ACCUMULATION	INT8	TCS416B:Num ber of MRs on TCHF in One Location Group (Downlink Receive Quality Rank 6)	B1290793533.C128 2411957	Sum	
MRS_TCHF_DL_RX_QUALITY_RK7	ACCUMULATION	INT8	TCS417B:Num ber of MRs on TCHF in One Location Group (Downlink Receive Quality Rank 7)	B1290793533.C128 2411958	Sum	
MRS_TCHF_UL_RX_QUALITY_RK0	ACCUMULATION	INT8	TCS410A:Num ber of MRs on TCHF in One Location Group (Uplink Receive Quality Rank 0)	B1290793533.C128 2411943	Sum	
MRS_TCHF_UL_RX_QUALITY_RK1	ACCUMULATION	INT8	TCS411A:Num ber of MRs on TCHF in One Location Group (Uplink Receive Quality Rank 1)	B1290793533.C128 2411944	Sum	
MRS_TCHF_UL_RX_QUALITY_RK2	ACCUMULATION	INT8	TCS412A:Num ber of MRs on TCHF in One Location Group (Uplink Receive Quality Rank 2)	B1290793533.C128 2411945	Sum	
MRS_TCHF_UL_RX_QUALITY_RK3	ACCUMULATION	INT8	TCS413A:Num ber of MRs on TCHF in One	B1290793533.C128 2411946	Sum	

			Location Group (Uplink Receive Quality Rank 3)			
MRS_TCHF_UL_RX_QUALITY_RK4	ACCUMULATION	INT8	TCS414A: Number of MRs on TCHF in One Location Group (Uplink Receive Quality Rank 4)	B1290793533.C128 2411947	Sum	
MRS_TCHF_UL_RX_QUALITY_RK5	ACCUMULATION	INT8	TCS415A: Number of MRs on TCHF in One Location Group (Uplink Receive Quality Rank 5)	B1290793533.C128 2411948	Sum	
MRS_TCHF_UL_RX_QUALITY_RK6	ACCUMULATION	INT8	TCS416A: Number of MRs on TCHF in One Location Group (Uplink Receive Quality Rank 6)	B1290793533.C128 2411949	Sum	
MRS_TCHF_UL_RX_QUALITY_RK7	ACCUMULATION	INT8	TCS417A: Number of MRs on TCHF in One Location Group (Uplink Receive Quality Rank 7)	B1290793533.C128 2411950	Sum	
MRS_TCHH_DL_RX_QUALITY_RK0	ACCUMULATION	INT8	TCS410D: Number of MRs on TCHH in One Location Group (Downlink Receive Quality	B1290793533.C128 2411967	Sum	

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			Rank 0)			
MRS_TCHH_DL_RX_QUALITY_RK1	ACCUMULATION	INT8	TCS411D: Number of MRs on TCHH in One Location Group (Downlink Receive Quality Rank 1)	B1290793533.C128 2411968	Sum	
MRS_TCHH_DL_RX_QUALITY_RK2	ACCUMULATION	INT8	TCS412D: Number of MRs on TCHH in One Location Group (Downlink Receive Quality Rank 2)	B1290793533.C128 2411969	Sum	
MRS_TCHH_DL_RX_QUALITY_RK3	ACCUMULATION	INT8	TCS413D: Number of MRs on TCHH in One Location Group (Downlink Receive Quality Rank 3)	B1290793533.C128 2411970	Sum	
MRS_TCHH_DL_RX_QUALITY_RK4	ACCUMULATION	INT8	TCS414D: Number of MRs on TCHH in One Location Group (Downlink Receive Quality Rank 4)	B1290793533.C128 2411971	Sum	
MRS_TCHH_DL_RX_QUALITY_RK5	ACCUMULATION	INT8	TCS415D: Number of MRs on TCHH in One Location Group (Downlink Receive Quality Rank 5)	B1290793533.C128 2411972	Sum	
MRS_TCHH_DL_RX_QUALITY_RK6	ACCUMULATION	INT8	TCS416D: Number of MRs on TCHH in One Location Group (Downlink Receive Quality	B1290793533.C128 2411973	Sum	

			Rank 6)			
MRS_TCHH_DL_RX_QUALITY_RK7	ACCUMULATION	INT8	TCS417D: Number of MRs on TCHH in One Location Group (Downlink Receive Quality Rank 7)	B1290793533.C128 2411974	Sum	
MRS_TCHH_UL_RX_QUALITY_RK0	ACCUMULATION	INT8	TCS410C: Number of MRs on TCHH in One Location Group (Uplink Receive Quality Rank 0)	B1290793533.C128 2411959	Sum	
MRS_TCHH_UL_RX_QUALITY_RK1	ACCUMULATION	INT8	TCS411C: Number of MRs on TCHH in One Location Group (Uplink Receive Quality Rank 1)	B1290793533.C128 2411960	Sum	
MRS_TCHH_UL_RX_QUALITY_RK2	ACCUMULATION	INT8	TCS412C: Number of MRs on TCHH in One Location Group (Uplink Receive Quality Rank 2)	B1290793533.C128 2411961	Sum	
MRS_TCHH_UL_RX_QUALITY_RK3	ACCUMULATION	INT8	TCS413C: Number of MRs on TCHH in One Location Group (Uplink Receive Quality Rank 3)	B1290793533.C128 2411962	Sum	
MRS_TCHH_UL_RX_QUALITY_RK4	ACCUMULATION	INT8	TCS414C: Number of MRs on TCHH in One Location Group (Uplink Receive Quality Rank 4)	B1290793533.C128 2411963	Sum	

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TY_RK4			TCHH in One Location Group (Uplink Receive Quality Rank 4)			
MRS_TCHH_UL_RX_QUALITY_RK5	ACCUMULATION	INT8	TCS415C: Number of MRs on TCHH in One Location Group (Uplink Receive Quality Rank 5)	B1290793533.C1282411964	Sum	
MRS_TCHH_UL_RX_QUALITY_RK6	ACCUMULATION	INT8	TCS416C: Number of MRs on TCHH in One Location Group (Uplink Receive Quality Rank 6)	B1290793533.C1282411965	Sum	
MRS_TCHH_UL_RX_QUALITY_RK7	ACCUMULATION	INT8	TCS417C: Number of MRs on TCHH in One Location Group (Uplink Receive Quality Rank 7)	B1290793533.C1282411966	Sum	
TOT_TCHF_DL_MR	ACCUMULATION	INT8	Total Number of MRs on TCHF in Once Location Group( Downlink Receive Quality Rank)	B1290793533.C1282411951 + C1282411952 + C1282411953 + C1282411954 + C1282411955 + C1282411956 + C1282411957 + C1282411958	Sum	
TOT_TCHF_UL_MR	ACCUMULATION	INT8	Total Number of MRs on TCHF in Once Location Group( Uplink Receive Quality Rank)	B1290793533.C1282411943 + C1282411944 + C1282411945 + C1282411946 + C1282411947 + C1282411948 + C1282411949 +	Sum	

				C1282411950		
TOT_TCHH_DL_MR	ACCUMULATION	INT8	Total Number of MRs on TCHH in Once Location Group( Downlink Receive Quality Rank)	B1290793533.C1282411967 + C1282411968 + C1282411969 + C1282411970 + C1282411971 + C1282411972 + C1282411973 + C1282411974	Sum	
TOT_TCHH_UL_MR	ACCUMULATION	INT8	Total Number of MRs on TCHH in Once Location Group( Uplink Receive Quality Rank)	B1290793533.C1282411959 + C1282411960 + C1282411961 + C1282411962 + C1282411963 + C1282411964 + C1282411965 + C1282411966	Sum	

**7.49.5 TRX\_LOCGRP.Huawei.GSM.Uplink\_downlink\_balance**

Measurement to measure the uplink-and-downlink balance between TRXs in the location group.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
MRS_UL_DL_BAL_LEVEL_10	ACCUMULATION	INT8	TS462J: Number of MRs (Uplink-and-Downlink Balance Level = 10) in One Location Group	B1290793531.C1282411941	Sum	
MRS_UL_DL_BAL_LEVEL_11	ACCUMULATION	INT8	TS462K: Number of MRs (Uplink-and-Downlink Balance Level =	B1290793531.C1282411942	Sum	

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			11) in One Location Group			
MRS_UL_DL_BAL_LEVEL_1	ACCUMULATION	INT8	TS462A: Number of MRs (Uplink-and-Downlink Balance Level = 1) in One Location Group	B1290793531.C128 2411920	Sum	
MRS_UL_DL_BAL_LEVEL_2	ACCUMULATION	INT8	TS462B: Number of MRs (Uplink-and-Downlink Balance Level = 2) in One Location Group	B1290793531.C128 2411921	Sum	
MRS_UL_DL_BAL_LEVEL_3	ACCUMULATION	INT8	TS462C: Number of MRs (Uplink-and-Downlink Balance Level = 3) in One Location Group	B1290793531.C128 2411922	Sum	
MRS_UL_DL_BAL_LEVEL_4	ACCUMULATION	INT8	TS462D: Number of MRs (Uplink-and-Downlink Balance Level = 4) in One Location Group	B1290793531.C128 2411923	Sum	
MRS_UL_DL_BAL_LEVEL_5	ACCUMULATION	INT8	TS462E: Number of MRs (Uplink-and-Downlink Balance Level = 5) in One Location Group	B1290793531.C128 2411924	Sum	
MRS_UL_DL_BAL_LEVEL_6	ACCUMULATION	INT8	TS462F: Number of MRs (Uplink-and-Downlink Balance Level =	B1290793531.C128 2411925	Sum	

			6) in One Location Group			
MRS_UL_DL_BAL_LEVEL_7	ACCUMULATION	INT8	TS462G: Number of MRs (Uplink-and-Downlink Balance Level = 7) in One Location Group	B1290793531.C128 2411926	Sum	
MRS_UL_DL_BAL_LEVEL_8	ACCUMULATION	INT8	TS462H: Number of MRs (Uplink-and-Downlink Balance Level = 8) in One Location Group	B1290793531.C128 2411939	Sum	
MRS_UL_DL_BAL_LEVEL_9	ACCUMULATION	INT8	TS462I: Number of MRs (Uplink-and-Downlink Balance Level = 9) in One Location Group	B1290793531.C128 2411940	Sum	
TOT_UL_DL_BAL_LVL_MR	ACCUMULATION	INT8	Number of MRs (Uplink-and-Downlink Balance Level) in One Location Group	B1290793531.C128 2411920 + C1282411921 + C1282411922 + C1282411923 + C1282411924 + C1282411925 + C1282411926 + C1282411939 + C1282411940 + C1282411941 + C1282411942	Sum	

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## 7.50 TSALLOC Performance Indicators

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

- [TSALLOC.Huawei.GSM.A\\_interface\\_circuit\\_capability](#)

### 7.50.1 TSALLOC.Huawei.GSM.A\_interface\_circuit\_capability

A-interface timeslot measurement to measure the timeslots on the A interface.

KPI	Type	Data Type	Description	Derivation	Default Aggregator	Other Aggregators
AVG_BUSY_TIME_TS10	INTENSITY	INT8	AL0010:average busy time of Ts10	B1275069718.C1276370446	Average	Sum, Minimum, Maximum
AVG_BUSY_TIME_TS11	INTENSITY	INT8	AL0011:average busy time of Ts11	B1275069718.C1276370449	Average	Sum, Minimum, Maximum
AVG_BUSY_TIME_TS12	INTENSITY	INT8	AL0012:average busy time of Ts12	B1275069718.C1276370452	Average	Sum, Minimum, Maximum
AVG_BUSY_TIME_TS13	INTENSITY	INT8	AL0013:average busy time of Ts13	B1275069718.C1276370455	Average	Sum, Minimum, Maximum
AVG_BUSY_TIME_TS14	INTENSITY	INT8	AL0014:average busy time of Ts14	B1275069718.C1276370458	Average	Sum, Minimum, Maximum
AVG_BUSY_TIME_TS15	INTENSITY	INT8	AL0015:average busy time of Ts15	B1275069718.C1276370461	Average	Sum, Minimum, Maximum

						m
AVG_BUSY_TIME_TS16	INTENSITY	INT8	AL0016:average busy time of Ts16	B1275069718.C1276370464	Average	Sum, Minimum, Maximum
AVG_BUSY_TIME_TS17	INTENSITY	INT8	AL0017:average busy time of Ts17	B1275069718.C1276370467	Average	Sum, Minimum, Maximum
AVG_BUSY_TIME_TS18	INTENSITY	INT8	AL0018:average busy time of Ts18	B1275069718.C1276370470	Average	Sum, Minimum, Maximum
AVG_BUSY_TIME_TS19	INTENSITY	INT8	AL0019:average busy time of Ts19	B1275069718.C1276370473	Average	Sum, Minimum, Maximum
AVG_BUSY_TIME_TS1	INTENSITY	INT8	AL0001:average busy time of Ts1	B1275069718.C1276370419	Average	Sum, Minimum, Maximum
AVG_BUSY_TIME_TS20	INTENSITY	INT8	AL0020:average busy time of Ts20	B1275069718.C1276370476	Average	Sum, Minimum, Maximum
AVG_BUSY_TIME_TS21	INTENSITY	INT8	AL0021:average busy time of Ts21	B1275069718.C1276370479	Average	Sum, Minimum, Maximum

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AVG_BUSY_TIME_TS22	INTENSITY	INT8	AL0022:average busy time of Ts22	B1275069718.C1276370482	Average	Sum, Minimum, Maximum
AVG_BUSY_TIME_TS23	INTENSITY	INT8	AL0023:average busy time of Ts23	B1275069718.C1276370485	Average	Sum, Minimum, Maximum
AVG_BUSY_TIME_TS24	INTENSITY	INT8	AL0024:average busy time of Ts24	B1275069718.C1276370488	Average	Sum, Minimum, Maximum
AVG_BUSY_TIME_TS25	INTENSITY	INT8	AL0025:average busy time of Ts25	B1275069718.C1276370491	Average	Sum, Minimum, Maximum
AVG_BUSY_TIME_TS26	INTENSITY	INT8	AL0026:average busy time of Ts26	B1275069718.C1276370494	Average	Sum, Minimum, Maximum
AVG_BUSY_TIME_TS27	INTENSITY	INT8	AL0027:average busy time of Ts27	B1275069718.C1276370497	Average	Sum, Minimum, Maximum
AVG_BUSY_TIME_TS28	INTENSITY	INT8	AL0028:average busy time of Ts28	B1275069718.C1276370500	Average	Sum, Minimum, Maximum
AVG_BUSY_TIME_TS29	INTENSITY	INT8	AL0029:average busy time of Ts29	B1275069718.C1276370503	Average	Sum, Minimum, Maximum
AVG_BUSY_	INTENSITY	INT8	AL0002:averag	B1275069718.C127	Average	Sum,

TIME_TS2			e busy time of Ts2	6370422		Minimum, Maximum
AVG_BUSY_TIME_TS30	INTENSITY	INT8	AL0030:average busy time of Ts30	B1275069718.C1276370506	Average	Sum, Minimum, Maximum
AVG_BUSY_TIME_TS31	INTENSITY	INT8	AL0031:average busy time of Ts31	B1275069718.C1276370509	Average	Sum, Minimum, Maximum
AVG_BUSY_TIME_TS3	INTENSITY	INT8	AL0003:average busy time of Ts3	B1275069718.C1276370425	Average	Sum, Minimum, Maximum
AVG_BUSY_TIME_TS4	INTENSITY	INT8	AL0004:average busy time of Ts4	B1275069718.C1276370428	Average	Sum, Minimum, Maximum
AVG_BUSY_TIME_TS5	INTENSITY	INT8	AL0005:average busy time of Ts5	B1275069718.C1276370431	Average	Sum, Minimum, Maximum
AVG_BUSY_TIME_TS6	INTENSITY	INT8	AL0006:average busy time of Ts6	B1275069718.C1276370434	Average	Sum, Minimum, Maximum
AVG_BUSY_TIME_TS7	INTENSITY	INT8	AL0007:average busy time of Ts7	B1275069718.C1276370437	Average	Sum, Minimum,

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						Maximum
AVG_BUSY_TIME_TS8	INTENSITY	INT8	AL0008:average busy time of Ts8	B1275069718.C1276370440	Average	Sum, Minimum, Maximum
AVG_BUSY_TIME_TS9	INTENSITY	INT8	AL0009:average busy time of Ts9	B1275069718.C1276370443	Average	Sum, Minimum, Maximum
TIMES_TS1_IS_BUSY	ACCUMULATION	INT8	L0001C: Number of Times That TS1 Is Busy	B1275069718.C1276370417	Sum	
TIMES_TS10_IS_BUSY	ACCUMULATION	INT8	L0010C: Number of Times That TS10 Is Busy	B1275069718.C1276370444	Sum	
TIMES_TS11_IS_BUSY	ACCUMULATION	INT8	L0011C: Number of Times That TS11 Is Busy	B1275069718.C1276370447	Sum	
TIMES_TS12_IS_BUSY	ACCUMULATION	INT8	L0012C: Number of Times That TS12 Is Busy	B1275069718.C1276370450	Sum	
TIMES_TS13_IS_BUSY	ACCUMULATION	INT8	L0013C: Number of Times That TS13 Is Busy	B1275069718.C1276370453	Sum	
TIMES_TS14_IS_BUSY	ACCUMULATION	INT8	L0014C: Number of Times That TS14 Is Busy	B1275069718.C1276370456	Sum	
TIMES_TS15_IS_BUSY	ACCUMULATION	INT8	L0015C: Number of Times That TS15 Is Busy	B1275069718.C1276370459	Sum	
TIMES_TS16_IS_BUSY	ACCUMULATION	INT8	L0016C: Number of Times That TS16 Is Busy	B1275069718.C1276370462	Sum	
TIMES_TS17_IS_BUSY	ACCUMULATION	INT8	L0017C: Number of Times That TS17 Is Busy	B1275069718.C1276370465	Sum	

TIMES_TS18_IS_BUSY	ACCUMULATION	INT8	L0018C: Number of Times That TS18 Is Busy	B1275069718.C1276370468	Sum	
TIMES_TS19_IS_BUSY	ACCUMULATION	INT8	L0019C: Number of Times That TS19 Is Busy	B1275069718.C1276370471	Sum	
TIMES_TS21S_BUSY	ACCUMULATION	INT8	L0002C: Number of Times That TS2 Is Busy	B1275069718.C1276370420	Sum	
TIMES_TS20_IS_BUSY	ACCUMULATION	INT8	L0020C: Number of Times That TS20 Is Busy	B1275069718.C1276370474	Sum	
TIMES_TS21_IS_BUSY	ACCUMULATION	INT8	L0021C: Number of Times That TS21 Is Busy	B1275069718.C1276370477	Sum	
TIMES_TS22_IS_BUSY	ACCUMULATION	INT8	L0022C: Number of Times That TS22 Is Busy	B1275069718.C1276370480	Sum	
TIMES_TS23IS_BUSY	ACCUMULATION	INT8	L0023C: Number of Times That TS23Is Busy	B1275069718.C1276370483	Sum	
TIMES_TS24_IS_BUSY	ACCUMULATION	INT8	L0024C: Number of Times That TS24 Is Busy	B1275069718.C1276370486	Sum	
TIMES_TS25_IS_BUSY	ACCUMULATION	INT8	L0025C: Number of Times That TS25 Is Busy	B1275069718.C1276370489	Sum	
TIMES_TS26_IS_BUSY	ACCUMULATION	INT8	L0026C: Number of Times That TS26 Is Busy	B1275069718.C1276370492	Sum	
TIMES_TS27_IS_BUSY	ACCUMULATION	INT8	L0027C: Number of Times That TS27 Is Busy	B1275069718.C1276370495	Sum	
TIMES_TS28_IS_BUSY	ACCUMULATION	INT8	L0028C: Number of Times That	B1275069718.C1276370498	Sum	

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			TS28 Is Busy			
TIMES_TS29_IS_BUSY	ACCUMULATION	INT8	L0029C: Number of Times That TS29 Is Busy	B1275069718.C1276370501	Sum	
TIMES_TS31_IS_BUSY	ACCUMULATION	INT8	L0003C: Number of Times That TS3 Is Busy	B1275069718.C1276370423	Sum	
TIMES_TS30_IS_BUSY	ACCUMULATION	INT8	L0030C: Number of Times That TS30 Is Busy	B1275069718.C1276370504	Sum	
TIMES_TS31_IS_BUSY	ACCUMULATION	INT8	L0031C: Number of Times That TS31 Is Busy	B1275069718.C1276370507	Sum	
TIMES_TS4_IS_BUSY	ACCUMULATION	INT8	L0004C: Number of Times That TS4 Is Busy	B1275069718.C1276370426	Sum	
TIMES_TS5_IS_BUSY	ACCUMULATION	INT8	L0005C: Number of Times That TS5 Is Busy	B1275069718.C1276370429	Sum	
TIMES_TS6_IS_BUSY	ACCUMULATION	INT8	L0006C: Number of Times That TS6 Is Busy	B1275069718.C1276370432	Sum	
TIMES_TS7_IS_BUSY	ACCUMULATION	INT8	L0007C: Number of Times That TS7 Is Busy	B1275069718.C1276370435	Sum	
TIMES_TS8_IS_BUSY	ACCUMULATION	INT8	L0008C: Number of Times That TS8 Is Busy	B1275069718.C1276370438	Sum	
TIMES_TS9_IS_BUSY	ACCUMULATION	INT8	L0009C: Number of Times That TS9 Is Busy	B1275069718.C1276370441	Sum	
TOT_BUSY_TIME_TS1_S	ACCUMULATION	INT8	L0001D: Total Busy Time of TS1 (s)	B1275069718.C1276370418	Sum	
TOT_BUSY_TIME_TS10_S	ACCUMULATION	INT8	L0010D: Total Busy Time of TS10 (s)	B1275069718.C1276370445	Sum	
TOT_BUSY_TIME_TS11_S	ACCUMULATION	INT8	L0011D: Total Busy Time of TS11 (s)	B1275069718.C1276370448	Sum	

IME_TS11_S	TION		Busy Time of TS11 (s)	6370448		
TOT_BUSY_T IME_TS12_S	ACCUMULA TION	INT8	L0012D:Total Busy Time of TS12 (s)	B1275069718.C127 6370451	Sum	
TOT_BUSY_T IME_TS13_S	ACCUMULA TION	INT8	L0013D:Total Busy Time of TS13 (s)	B1275069718.C127 6370454	Sum	
TOT_BUSY_T IME_TS14_S	ACCUMULA TION	INT8	L0014D:Total Busy Time of TS14 (s)	B1275069718.C127 6370457	Sum	
TOT_BUSY_T IME_TS15_S	ACCUMULA TION	INT8	L0015D:Total Busy Time of TS15 (s)	B1275069718.C127 6370460	Sum	
TOT_BUSY_T IME_TS16_S	ACCUMULA TION	INT8	L0016D:Total Busy Time of TS16 (s)	B1275069718.C127 6370463	Sum	
TOT_BUSY_T IME_TS17_S	ACCUMULA TION	INT8	L0017D:Total Busy Time of TS17 (s)	B1275069718.C127 6370466	Sum	
TOT_BUSY_T IME_TS18_S	ACCUMULA TION	INT8	L0018D:Total Busy Time of TS18 (s)	B1275069718.C127 6370469	Sum	
TOT_BUSY_T IME_TS19_S	ACCUMULA TION	INT8	L0019D:Total Busy Time of TS19 (s)	B1275069718.C127 6370472	Sum	
TOT_BUSY_T IME_TS2_S	ACCUMULA TION	INT8	L0002D:Total Busy Time of TS2 (s)	B1275069718.C127 6370421	Sum	
TOT_BUSY_T IME_TS20_S	ACCUMULA TION	INT8	L0020D:Total Busy Time of TS20 (s)	B1275069718.C127 6370475	Sum	
TOT_BUSY_T IME_TS21_S	ACCUMULA TION	INT8	L0021D:Total Busy Time of TS21 (s)	B1275069718.C127 6370478	Sum	

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TOT_BUSY_T IME_TS22_S	ACCUMULA TION	INT8	L0022D:Total Busy Time of TS22 (s)	B1275069718.C127 6370481	Sum	
TOT_BUSY_T IME_TS23_S	ACCUMULA TION	INT8	L0023D:Total Busy Time of TS23 (s)	B1275069718.C127 6370484	Sum	
TOT_BUSY_T IME_TS24_S	ACCUMULA TION	INT8	L0024D:Total Busy Time of TS24 (s)	B1275069718.C127 6370487	Sum	
TOT_BUSY_T IME_TS25_S	ACCUMULA TION	INT8	L0025D:Total Busy Time of TS25 (s)	B1275069718.C127 6370490	Sum	
TOT_BUSY_T IME_TS26_S	ACCUMULA TION	INT8	L0026D:Total Busy Time of TS26 (s)	B1275069718.C127 6370493	Sum	
TOT_BUSY_T IME_TS27_S	ACCUMULA TION	INT8	L0027D:Total Busy Time of TS27 (s)	B1275069718.C127 6370496	Sum	
TOT_BUSY_T IME_TS28_S	ACCUMULA TION	INT8	L0028D:Total Busy Time of TS28 (s)	B1275069718.C127 6370499	Sum	
TOT_BUSY_T IME_TS29_S	ACCUMULA TION	INT8	L0029D:Total Busy Time of TS29 (s)	B1275069718.C127 6370502	Sum	
TOT_BUSY_T IME_TS3_S	ACCUMULA TION	INT8	L0003D:Total Busy Time of TS3 (s)	B1275069718.C127 6370424	Sum	
TOT_BUSY_T IME_TS30_S	ACCUMULA TION	INT8	L0030D:Total Busy Time of TS30 (s)	B1275069718.C127 6370505	Sum	
TOT_BUSY_T IME_TS31_S	ACCUMULA TION	INT8	L0031D:Total Busy Time of TS31 (s)	B1275069718.C127 6370508	Sum	
TOT_BUSY_T IME_TS4_S	ACCUMULA TION	INT8	L0004D:Total Busy Time of TS4 (s)	B1275069718.C127 6370427	Sum	
TOT_BUSY_T IME_TS5_S	ACCUMULA TION	INT8	L0005D:Total Busy Time of	B1275069718.C127 6370430	Sum	

			TS5 (s)			
TOT_BUSY_TIME_TS6_S	ACCUMULATION	INT8	L0006D:Total Busy Time of TS6 (s)	B1275069718.C1276370433	Sum	
TOT_BUSY_TIME_TS7_S	ACCUMULATION	INT8	L0007D:Total Busy Time of TS7 (s)	B1275069718.C1276370436	Sum	
TOT_BUSY_TIME_TS8_S	ACCUMULATION	INT8	L0008D:Total Busy Time of TS8 (s)	B1275069718.C1276370439	Sum	
TOT_BUSY_TIME_TS9_S	ACCUMULATION	INT8	L0009D:Total Busy Time of TS9 (s)	B1275069718.C1276370442	Sum	
TOT_BUSY_TS	ACCUMULATION	INT8	Total Number of Times That TS Is Busy	B1275069718.C1276370417 + C1276370420 + C1276370423 + C1276370426 + C1276370429 + C1276370432 + C1276370435 + C1276370438 + C1276370441 + C1276370444 + C1276370447 + C1276370450 + C1276370453 + C1276370456 + C1276370459 + C1276370462 + C1276370465 + C1276370468 + C1276370471 + C1276370474 + C1276370477 + C1276370480 + C1276370483 + C1276370486 +	Sum	

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				C1276370489 + C1276370492 + C1276370495 + C1276370498 + C1276370501 + C1276370504 + C1276370507		
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## 8 Performance Alarms

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

None.

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# 9 Reports

This section shows details of the reports that are defined in this technology pack module.

All reports can be run as raw, daily, weekly or monthly reports.

Where a KPI is marked (DA), it means Data Availability is to be reported upon it.

- [Processor Reports.](#)
- [Cell Reports.](#)
- [BSC Reports.](#)
- [Neighbour Reports.](#)
- [TRX Reports.](#)
- [Bearer Reports.](#)
- [M3UA\\_Link Reports.](#)

## 9.1 Processor Reports.

This section shows reports for the Processor object.

- [Huawei BSS V900 CPU Performance](#)

### 9.1.1 Huawei BSS V900 CPU Performance

Processor utilisation report

Report Feature	Details
Report Tree Branch	System.GSM.Engineering.BSS.Huawei.Processor
Primary Object	Processor
Utilisation Graph	Processor.Huawei.CPU_usage.CPU_USG_AVG, Processor.Huawei.CPU_usage.CPU_USG_MAX
Utilisation Report	Processor.Huawei.CPU_usage.CPU_USG_AVG, Processor.Huawei.CPU_usage.CPU_USG_MAX (DA), Processor.Huawei.CPU_usage.CPU_Usage_meas, Processor.Processor_Id, Processor.Processor_Name, Processor.Huawei.CPU_usage.Accum_CPU_Usage

## 9.2 Cell Reports.

This section shows reports for the Cell object.

- [Huawei BSS V900 Channel Seize](#)
- [Huawei BSS V900 DL TBF estab and RLS](#)
- [Huawei BSS V900 GPRS Related Cell Radio](#)
- [Huawei BSS V900 Inter Cell handover](#)
- [Huawei BSS V900 Intra Cell handover](#)
- [Huawei BSS V900 PDCH Resource Performance](#)
- [Huawei BSS V900 UL EGPRS RLC](#)
- [Huawei BSS V900 UL TBF estab and RLS](#)

### 9.2.1 Huawei BSS V900 Channel Seize

Channel seize performance measurements

Report Feature	Details
Report Tree Branch	System.GSM.Engineering.BSS.Huawei.Cell
Primary Object	Cell
ACTs and NACKs Report	Cell.Huawei.Channel_activation_overview.ASS_CH_ACT, Cell.Huawei.Channel_activation_overview.CHMD_CH_ACT, Cell.Huawei.Channel_activation_overview.CH_ACT, Cell.Huawei.Channel_activation_overview.IMM_ASS_CH_ACT, Cell.Huawei.Channel_activation_overview.INCEXT_HO_CH_ACT, Cell.Huawei.Channel_activation_overview.INCINT_HO_CH_ACT, Cell.Huawei.Channel_activation_overview.INTRA_HO_CH_ACT, Cell.Huawei.Channel_activation_overview.ASS_CH_ACT_EXP, Cell.Huawei.Channel_activation_overview.CHMD_CH_ACT_EXP, Cell.Huawei.Channel_activation_overview.CH_ACT_EXP, Cell.Huawei.Channel_activation_overview.IMM_ASS_CH_ACT_EXP, Cell.Huawei.Channel_activation_overview.INCEXT_HO_CH_ACT_EXP, Cell.Huawei.Channel_activation_overview.INCINT_HO_CH_ACT_EXP, Cell.Huawei.Channel_activation_overview.INTRA_HO_CH_ACT_EXP, Cell.Cell_Id, Cell.Cell_Name, Cell.BSC_Id

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### 9.2.2 Huawei BSS V900 DL TBF estab and RLS

Downlink TBF establishment and release Report

Report Feature	Details
Report Tree Branch	System.GSM.Engineering.BSS.Huawei.Cell
Primary Object	Cell
Report	Cell.Huawei.DL_GPRS_TBF_estab_and_RLS_cap.DOWN_GPRS_TBF_ABNORM_REL_FLUSH, Cell.Huawei.DL_GPRS_TBF_estab_and_RLS_cap.DOWN_GPRS_TBF_ESTB_SUCC, Cell.Huawei.DL_GPRS_TBF_estab_and_RLS_cap.DOWN_GPRS_TBF_AVG_TIME, Cell.Huawei.DL_GPRS_TBF_estab_and_RLS_cap.DOWN_GPRS_TBF_NORMAL_REL, Cell.Huawei.DL_GPRS_TBF_estab_and_RLS_cap.DL_GPRS_TBF_ESTB_FAIL_NO_CHAN_RESP, Cell.Huawei.DL_GPRS_TBF_estab_and_RLS_cap.DL_GPRS_TBF_ESTB_FAIL_MS_NO_RESP, Cell.Huawei.DL_GPRS_TBF_estab_and_RLS_cap.DL_GPRS_TBF_ABNRM_REL_PREEMPT, Cell.Huawei.DL_GPRS_TBF_estab_and_RLS_cap.DL_GPRS_TBF_ABNRM_REL_N3105_OFLOW, Cell.Huawei.DL_GPRS_TBF_estab_and_RLS_cap.DL_GPRS_TBF_ABNORM_REL_SUSPEND, Cell.Huawei.DL_GPRS_TBF_estab_and_RLS_cap.DL_GPRS_TBF_ABNORM_REL_NO_CHAN_RES, Cell.Huawei.DL_GPRS_TBF_estab_and_RLS_cap.DOWN_GPRS_TBF_ESTB_ATMP, Cell.Huawei.DL_GPRS_TBF_estab_and_RLS_cap.DL_GPRS_TRANS_INTERRUPT_TIMES, Cell.Huawei.DL_GPRS_TBF_estab_and_RLS_cap.DL_GPRS_TBF_ESTB_FAIL_OTH_CAUS, Cell.Huawei.DL_GPRS_TBF_estab_and_RLS_cap.DL_ABNRM_REL_CS_HO, Cell.Huawei.DL_GPRS_TBF_estab_and_RLS_cap.DL_ABNRM_REL_ABIS_RES_PREEMPT, Cell.Huawei.DL_GPRS_TBF_estab_and_RLS_cap.DL_ABNRM_REL_EGPRS_USER_ACS, Cell.Cell_Id, Cell.Cell_Name, Cell.BSC_Id

### 9.2.3 Huawei BSS V900 GPRS Related Cell Radio

GPRS Related Cell Radio

Report Feature	Details
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Report Tree Branch	System.GSM.Engineering.BSS.Huawei.Cell
Primary Object	Cell
Channel Perf Graph	Cell.Huawei.Radio_channel_capability.RADIO_DOWN_PDTCH_CHAN_USE_RATE, Cell.Huawei.Radio_channel_capability.RADIO_UP_PDTCH_CHAN_USE_RATE
Channel Perf Report	Cell.Huawei.Radio_channel_capability.RADIO_PDCH_AVG_USE_RATE (DA), Cell.Huawei.Radio_channel_capability.RADIO_PDCH_TOTAL_BLOCK, Cell.Huawei.Radio_channel_capability.RADIO_PDTCH_DOWNLINK_TX_BLK, Cell.Huawei.Radio_channel_capability.RADIO_DL_PDTCH_CHAN_USE_TOTAL, Cell.Huawei.Radio_channel_capability.RADIO_UP_PDTCH_CHAN_USE_RATE, Cell.Huawei.Radio_channel_capability.RADIO_UP_PDTCH_CHAN_USE_TOTAL, Cell.Huawei.Radio_channel_capability.RADIO_DOWN_PDTCH_CHAN_USE_RATE, Cell.Huawei.Radio_channel_capability.RADIO_PDTCH_UPLINK_RX_BLK, Cell.Cell_Id, Cell.Cell_Name, Cell.BSC_Id

### 9.2.4 Huawei BSS V900 Inter Cell handover

Inter Cell handover measurements

Report Feature	Details
Report Tree Branch	System.GSM.Engineering.BSS.Huawei.Cell
Primary Object	Cell
Overview report	Cell.Huawei.Incom_int_intercell_HO_overview.INC_INT_HO_SUCC_RATE, Cell.Cell_Name, Cell.BSC_Id, Cell.Huawei.Incom_int_intercell_HO_overview.HO_REQ, Cell.Huawei.Incom_int_intercell_HO_overview.HO_FAIL, Cell.Huawei.Incom_int_intercell_HO_overview.HO_SUCC_RATE, Cell.Huawei.Incom_ext_intercell_HO_overview.HO_SUCC_RATE, Cell.Huawei.Incom_ext_intercell_HO_overview.HO_FAIL,

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	Cell.Huawei.Incom_ext_intercell_HO_overview.HO_REQ, Cell.Huawei.Outgo_int_intercell_HO_overview.HO_FAIL, Cell.Huawei.Outgo_int_intercell_HO_overview.HO_REQ, Cell.Huawei.Outgo_int_intercell_HO_overview.HO_SUCC_RATE, Cell.Huawei.Outgo_ext_intercell_HO_overview.HO_FAIL, Cell.Huawei.Outgo_ext_intercell_HO_overview.HO_REQ, Cell.Huawei.Outgo_ext_intercell_HO_overview.HO_SUCC_RATE
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### 9.2.5 Huawei BSS V900 Intra Cell handover

Intra cell handover measurements

Report Feature	Details
Report Tree Branch	System.GSM.Engineering.BSS.Huawei.Cell
Primary Object	Cell
Overview Report	Cell.Huawei.Intracell_handover_overview.HO_SUCC_TCHF_TCHH, Cell.Huawei.Intracell_handover_overview.HO_SUCC_SD_TCH, Cell.Huawei.Intracell_handover_overview.HO_SUCC_RATE, Cell.Huawei.Intracell_handover_overview.HO_SUCC, Cell.Huawei.Intracell_handover_overview.HO_REQ, Cell.Huawei.Intracell_handover_overview.HO_FAIL, Cell.Huawei.Intracell_handover_overview.HO_DETECT, Cell.Huawei.Intracell_handover_overview.HO_CMD, Cell.Huawei.Intracell_handover_overview.HO_SUCC_RATE_TCHH _TCHF, Cell.Cell_Id, Cell.Cell_Name, Cell.BSC_Id

### 9.2.6 Huawei BSS V900 PDCH Resource Performance

PDCH Resource performance

Report Feature	Details
Report Tree Branch	System.GSM.Engineering.BSS.Huawei.Cell
Primary Object	Cell
Overview Report	Cell.Huawei.PDCH_resource_cap_overview.AVG_DOWNLINK_OC CU_PDCH (DA), Cell.Huawei.PDCH_resource_cap_overview.AVG_UPLINK_OCCU_ PDCH, Cell.Huawei.PDCH_resource_cap_overview.AVR_AVAIL_PDCH, Cell.Huawei.PDCH_resource_cap_overview.AVR_OCCU_PDCH, Cell.Huawei.PDCH_resource_cap_overview.TOTAL_NUM_OCCU_ PDCH, Cell.Huawei.PDCH_resource_cap_overview.TOTAL_UPLINK_OCC

	U_PDCH, Cell.Huawei.PDCH_resource_cap_overview.TOTAL_DOWNLINK_OCCU_PDCH, Cell.Huawei.PDCH_resource_cap_overview.RECLAIM_DYN_PDCH, Cell.Huawei.PDCH_resource_cap_overview.TCH_TO_PDTCH_ATMPT, Cell.Huawei.PDCH_resource_cap_overview.TCH_TO_PDTCH_SUCCESS, Cell.Cell_Id, Cell.Cell_Name, Cell.BSC_Id
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### 9.2.7 Huawei BSS V900 UL EGPRS RLC

UL EGPRS RLC

Report Feature	Details
Report Tree Branch	System.GSM.Engineering.BSS.Huawei.Cell
Primary Object	Cell
Data Transmits Report	Cell.Huawei.UL_EGPRS_RLC_data_transfer_cap.UP_EGPRS_RLC_AVG_THRPUT_RATE, Cell.Huawei.UL_EGPRS_RLC_data_transfer_cap.UP_EGPRS_RLC_DATA_BLOCK_TOTAL, Cell.Huawei.UL_EGPRS_RLC_data_transfer_cap.UP_EGPRS_RLC_SIG_BLK_NUM, Cell.Huawei.UL_EGPRS_RLC_data_transfer_cap.UP_EGPRS_TBF_MCS_DEGRADE_NUM, Cell.Huawei.UL_EGPRS_RLC_data_transfer_cap.UP_EGPRS_TBF_MCS_UPGRADE_NUM, Cell.Huawei.UL_EGPRS_RLC_data_transfer_cap.UP_EGPRS_TOTAL_TBF, Cell.Huawei.UL_EGPRS_RLC_data_transfer_cap.RLC_SGL_TBF_AVG_THRPUT, Cell.Cell_Id, Cell.Cell_Name, Cell.BSC_Id

### 9.2.8 Huawei BSS V900 UL TBF estab and RLS

UL TBF estab and RLS performance

Report Feature	Details
Report Tree Branch	System.GSM.Engineering.BSS.Huawei.Cell

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Primary Object	Cell
Overview Report	Cell.Huawei.UL_GPRS_TBF_estab_and_RLS_cap.ABNORM_REL_FLUSH (DA), Cell.Huawei.UL_GPRS_TBF_estab_and_RLS_cap.ABNORM_REL_NO_CHAN_RES, Cell.Huawei.UL_GPRS_TBF_estab_and_RLS_cap.ABNORM_REL_SUSPEND, Cell.Huawei.UL_GPRS_TBF_estab_and_RLS_cap.ABNRM_REL_N3101_OFLOW, Cell.Huawei.UL_GPRS_TBF_estab_and_RLS_cap.ABNRM_REL_N3103_OFLOW, Cell.Huawei.UL_GPRS_TBF_estab_and_RLS_cap.ESTABLISH_SUCCESS, Cell.Huawei.UL_GPRS_TBF_estab_and_RLS_cap.ESTB_ATMPT, Cell.Huawei.UL_GPRS_TBF_estab_and_RLS_cap.ESTB_FAIL_MS_NO_RESP, Cell.Huawei.UL_GPRS_TBF_estab_and_RLS_cap.ESTB_FAIL_NO_CHAN_RES, Cell.Huawei.UL_GPRS_TBF_estab_and_RLS_cap.NORMAL_REL, Cell.Huawei.UL_GPRS_TBF_estab_and_RLS_cap.UP_GPRS_TBF_ABNRM_REL_OTHCAUSE, Cell.Huawei.UL_GPRS_TBF_estab_and_RLS_cap.UP_GPRS_TBF_ABNRM_REL_PREEMPT, Cell.Huawei.UL_GPRS_TBF_estab_and_RLS_cap.UP_GPRS_TBF_ESTBFAIL_OTHCAUS, Cell.Huawei.UL_GPRS_TBF_estab_and_RLS_cap.ABNRM_REL_A_BIS_RES_PREEMPT, Cell.Huawei.UL_GPRS_TBF_estab_and_RLS_cap.ABNRM_REL_CS_HO, Cell.Huawei.UL_GPRS_TBF_estab_and_RLS_cap.ABNRM_REL_EGPRS_USER_ACS, Cell.Cell_Id, Cell.Cell_Name, Cell.BSC_Id

### 9.3 BSC Reports.

This section shows reports for the BSC object.

- [Huawei BSS V900 Handover](#)
- [Huawei BSS V900 Packet switch](#)
- [Huawei BSS V900 Traffic Volume](#)
- [Huawei V900 TBF Capability](#)
- [Huawei V900 VGCS and VBS](#)

#### 9.3.1 Huawei BSS V900 Handover

handover overview

Report Feature	Details
Report Tree Branch	System.GSM.Engineering.BSS.Huawei.BSC
Primary Object	BSC
Handover Overview	BSC.BSC_Id, BSC.BSC_Name, BSC.Region_Id, BSC.Huawei.Handover_failure_overview.INTERBSC_INCELL_APPLY_TRSL_FAIL (DA), BSC.Huawei.Handover_failure_overview.INTERBSC_INCELL_CIC_AVAIL, BSC.Huawei.Handover_failure_overview.INTERBSC_INCELL_CONG, BSC.Huawei.Handover_failure_overview.INTERBSC_INCELL_HOCH_ACT_EXP, BSC.Huawei.Handover_failure_overview.INTERBSC_INCELL_HOCH_ACT_NACK, BSC.Huawei.Handover_failure_overview.INTERBSC_INCELL_MS_C_CLEAR_CMD, BSC.Huawei.Handover_failure_overview.INTERBSC_INCELL_TIMER_OUT, BSC.Huawei.Handover_failure_overview.INTERBSC_OUTCELL_RECONN_FAIL, BSC.Huawei.Handover_failure_overview.INTERBSC_OUTCELL_RECONN_SUCC, BSC.Huawei.Handover_failure_overview.INTERRAN_OUTCELL_RECONN_SUCC, BSC.Huawei.Handover_failure_overview.INTERRAN_OUTCELL_T8_EXP, BSC.Huawei.Handover_failure_overview.INTRABSC_OUTCELL_RECONN_FAIL, BSC.Huawei.Handover_failure_overview.INTRABSC_OUTCELL_RECONN_SUCC, BSC.Huawei.Handover_failure_overview.INTRACELL_RECONN_FAIL, BSC.Huawei.Handover_failure_overview.INTRACELL_RECONN_SUCC

### 9.3.2 Huawei BSS V900 Packet switch

Packet Switch capability

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Report Feature	Details
Report Tree Branch	System.GSM.Engineering.BSS.Huawei.BSC
Primary Object	BSC
Capability Overview	BSC.Huawei.Ps_capability.PCUCAP_AVG_PDCH_ALLOC_NUM (DA), BSC.Huawei.Ps_capability.PCUCAP_PEAK_PDCH_ALLOC_NUM, BSC.Huawei.Ps_capability.PDCH_ALLOC_FAIL_FOR_CONG, BSC.Huawei.Ps_capability.PCUCAP_PEAK_PCU_PROC_SPEED, BSC.Huawei.Ps_capability.MAX_NUM_EGPRS_PDCHS_OCCP, BSC.Huawei.Ps_capability.MAX_NUM_GPRS_PDCHS_OCCP, BSC.BSC_Id, BSC.BSC_Name, BSC.Region_Id

### 9.3.3 Huawei BSS V900 Traffic Volume

Traffic Volume Measurements

Report Feature	Details
Report Tree Branch	System.GSM.Engineering.BSS.Huawei.BSC
Primary Object	BSC
BSC Traffic Overview	BSC.Huawei.Access_traffic_volume.Traffic_Volume_on_Sigchnl_TCH, BSC.Huawei.Access_traffic_volume.Traffic_Volume_on_TCH, BSC.Huawei.Access_traffic_volume.Traffic_Volume_of_TCH_SDCCH, BSC.BSC_Id, BSC.BSC_Name, BSC.Region_Id

### 9.3.4 Huawei V900 TBF Capability

TBF Capability Measurements.

Report Feature	Details
Report Tree Branch	System.GSM.Engineering.BSS.Huawei.BSC
Primary Object	BSC
TBF Capability Overview	BSC.Huawei.TBF_capability.TOT_DL_EGPRS_TBF_AB_RLS, BSC.Huawei.TBF_capability.TOT_DL_GPRS_TBF_AB_RLS, BSC.Huawei.TBF_capability.TOT_UL_EGPRS_TBF_AB_RLS, BSC.Huawei.TBF_capability.TOT_UL_GPRS_TBF_AB_RLS, BSC.Huawei.TBF_capability.TOT_FAIL_DL_EGPRS_TBF_EST, BSC.Huawei.TBF_capability.TOT_FAIL_DL_GPRS_TBF_EST, BSC.Huawei.TBF_capability.TOT_FAIL_UL_EGPRS_TBF_EST, BSC.Huawei.TBF_capability.TOT_FAIL_UL_GPRS_TBF_EST, BSC.Huawei.TBF_capability.SUCC_DL_EGPRS_TBF_ESTB,

	BSC.Huawei.TBF_capability.SUCC_DL_GPRS_TBF_ESTB, BSC.Huawei.TBF_capability.SUCC_UL_EGPRS_TBF_ESTB, BSC.Huawei.TBF_capability.SUCC_UL_GPRS_TBF_ESTB, BSC.BSC_Id, BSC.BSC_Name, BSC.Region_Id
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### 9.3.5 Huawei V900 VGCS and VBS

VGCS and VBS Measurements.

Report Feature	Details
Report Tree Branch	System.GSM.Engineering.BSS.Huawei.BSC
Primary Object	BSC
VGCS and VBS Measurements Overview	BSC.Huawei.VGCS_VBS_measurement.SUCC_VBS_ASG_RATE, BSC.Huawei.VGCS_VBS_measurement.SUCC_VGCS_ASG_RATE, BSC.Huawei.VGCS_VBS_measurement.VGCS_TCH_UL_CALL_D ROP_RATE, BSC.Huawei.VGCS_VBS_measurement.VGCS_TCH_UL_CALL_D ROPS, BSC.Huawei.VGCS_VBS_measurement.VBS_TCH_UL_CALL_DR OPS, BSC.BSC_Id, BSC.BSC_Name, BSC.Region_Id

## 9.4 Neighbour Reports.

This section shows reports for the Neighbour object.

- [Huawei BSS V900 Neighbour overview](#)

### 9.4.1 Huawei BSS V900 Neighbour overview

neighbour overview report

Report Feature	Details
Report Tree Branch	System.GSM.Engineering.BSS.Huawei.Neighbour
Primary Object	Neighbour
GSM to GSM Report	Neighbour.Huawei.GSM_to_GSM_cell_outgo_handover.NCELL_OU TCELL_HO_FAIL, Neighbour.Huawei.GSM_to_GSM_cell_outgo_handover.NCELL_OU

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	TCELL_HO_REQ, Neighbour.Huawei.GSM_to_GSM_cell_outgo_handover.NCELL_OU TCELL_HO_SUCC, Neighbour.Huawei.GSM_to_GSM_cell_outgo_handover.NCELL_OU TCELL_HO_SUCC_RATE (DA), Neighbour.Huawei.GSM_to_GSM_cell_incom_handover.NCELL_IN CELL_HO_FAIL, Neighbour.Huawei.GSM_to_GSM_cell_incom_handover.NCELL_IN CELL_HO_FAIL_CONG, Neighbour.Huawei.GSM_to_GSM_cell_incom_handover.NCELL_IN CELL_HO_FAIL_OTHER, Neighbour.Huawei.GSM_to_GSM_cell_incom_handover.NCELL_IN CELL_HO_REQ, Neighbour.Huawei.GSM_to_GSM_cell_incom_handover.NCELL_IN CELL_HO_SUCC, Neighbour.Huawei.GSM_to_GSM_cell_incom_handover.NCELL_IN CELL_HO_SUCC_RATE, Neighbour.Neighbour_Id, Neighbour.Source_Cell_Id, Neighbour.Huawei.GSM_to_GSM_cell_outgo_handover.NCELL_OU TCELL_HO_CMD
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## 9.5 TRX Reports.

This section shows reports for the TRX object.

- [Huawei BSS V900 Channel Assignment](#)
- [Huawei BSS V900 Packet Transmission](#)
- [Huawei BSS V900 Radio Link Failure](#)

### 9.5.1 Huawei BSS V900 Channel Assignment

Channel Assignment on TRX

Report Feature	Details
Report Tree Branch	System.GSM.Engineering.BSS.Huawei.TRX
Primary Object	TRX
Success Report	TRX.Huawei.Channel_assignment_success.ASS_CH_ALLOC_SUCC _FR, TRX.Huawei.Channel_assignment_success.ASS_CH_ALLOC_SUCC _HR, TRX.Huawei.Channel_assignment_success.CH_ALLOC_SUCC_FR, TRX.Huawei.Channel_assignment_success.CH_ALLOC_SUCC_HR, TRX.Huawei.Channel_assignment_success.CH_ALLOC_SUCC_SD, TRX.Huawei.Channel_assignment_success.CH_ALLOC_SUCC_TC

	H, TRX.Huawei.Channel_assignment_success.IMM_ASS_CH_ALLOC_SUCC_FR, TRX.Huawei.Channel_assignment_success.IMM_ASS_CH_ALLOC_SUCC_HR, TRX.Huawei.Channel_assignment_success.IMM_ASS_CH_ALLOC_SUCC_SD, TRX.TRX_Id, TRX.Cell_Id, TRX.BSC_Id
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### 9.5.2 Huawei BSS V900 Packet Transmission

Packets sent and received on TRX

Report Feature	Details
Report Tree Branch	System.GSM.Engineering.BSS.Huawei.TRX
Primary Object	TRX
Traffic Report	TRX.Huawei.TRX_trans_packet.RX_CS_LOST (DA), TRX.Huawei.TRX_trans_packet.RX_CS_PACK_NUM, TRX.Huawei.TRX_trans_packet.RX_CS_TRAFFIC, TRX.Huawei.TRX_trans_packet.RX_PS_LOST, TRX.Huawei.TRX_trans_packet.RX_PS_PACK_NUM, TRX.Huawei.TRX_trans_packet.RX_PS_TRAFFIC_NUM, TRX.Huawei.TRX_trans_packet.RX_SIGNALING_LOST, TRX.Huawei.TRX_trans_packet.RX_SIGNALING_PACK_NUM, TRX.Huawei.TRX_trans_packet.RX_SIGNALING_TRAFFIC, TRX.Huawei.TRX_trans_packet.TX_CS_LOST, TRX.Huawei.TRX_trans_packet.TX_CS_PACK_NUM, TRX.Huawei.TRX_trans_packet.TX_CS_TRAFFIC_NUM, TRX.Huawei.TRX_trans_packet.TX_PS_LOST, TRX.Huawei.TRX_trans_packet.TX_PS_PACK_NUM, TRX.Huawei.TRX_trans_packet.TX_PS_TRAFFIC_NUM, TRX.Huawei.TRX_trans_packet.TX_SIGNALING_LOST, TRX.Huawei.TRX_trans_packet.TX_SIGNALING_PACK_NUM, TRX.Huawei.TRX_trans_packet.TX_SIGNALING_TRAFFIC, TRX.TRX_Id, TRX.Cell_Id, TRX.BSC_Id

### 9.5.3 Huawei BSS V900 Radio Link Failure

Radio Link Failure

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Report Feature	Details
Report Tree Branch	System.GSM.Engineering.BSS.Huawei.TRX
Primary Object	TRX
dBm Levels	TRX.Huawei.Radio_link_failure.FR_DROP_UL_LEV, TRX.Huawei.Radio_link_failure.FR_DROP_UL_LEV_AVR, TRX.Huawei.Radio_link_failure.HR_DROP_DL_LEV, TRX.Huawei.Radio_link_failure.HR_DROP_DL_LEV_AVR, TRX.Huawei.Radio_link_failure.HR_DROP_UL_LEV, TRX.Huawei.Radio_link_failure.HR_DROP_UL_LEV_AVR, TRX.Huawei.Radio_link_failure.SD_DROP_DL_LEV, TRX.Huawei.Radio_link_failure.SD_DROP_DL_LEV_AVR, TRX.Huawei.Radio_link_failure.SD_DROP_UL_LEV, TRX.Huawei.Radio_link_failure.SD_DROP_UL_LEV_AVR, TRX.Huawei.Radio_link_failure.FR_DROP_DL_LEV, TRX.Huawei.Radio_link_failure.FR_DROP_DL_LEV_AVR, TRX.TRX_Id, TRX.Cell_Id, TRX.BSC_Id

## 9.6 Bearer Reports.

This section shows reports for the Bearer object.

- [Huawei BSS V900 Bearer measurements](#)

### 9.6.1 Huawei BSS V900 Bearer measurements

Utilisation report

Report Feature	Details
Report Tree Branch	System.GSM.Engineering.BSS.Huawei.Bearer
Primary Object	Bearer
Utilisation Report	Bearer.Huawei.BC_transfer_capability.RX_FR, Bearer.Huawei.BC_transfer_capability.RX_NS_PDU_PK_BYTE, Bearer.Huawei.BC_transfer_capability.TX_FR, Bearer.Huawei.BC_transfer_capability.TX_NS_PDU_PK_BYTE, Bearer.Huawei.BC_transfer_capability.TOTAL_FR, Bearer.Huawei.BC_transfer_capability.DISCARD_FR, Bearer.Bearer_Id, Bearer.Bearer_Name, Bearer.Region_Id

## 9.7 M3UA\_Link Reports.

This section shows reports for the M3UA\_Link object.

- [Huawei BSS V900 M3UA Link performance](#)

### 9.7.1 Huawei BSS V900 M3UA Link performance

M3UA Link state and utilisation

Report Feature	Details
Report Tree Branch	System.GSM.Engineering.BSS.Huawei.
Primary Object	M3UA_Link
State report	M3UA_Link.Huawei.M3UA_link_utilisation.M3UA_LINK_INACCESSIBLE, M3UA_Link.Huawei.M3UA_link_utilisation.M3UA_LINK_UNAVAILABLE_DUR, M3UA_Link.Huawei.M3UA_link_utilisation.M3UA_LINK_CONGESTION_DUR, M3UA_Link.M3UA_Link_Id, M3UA_Link.Node_Id
Utilisation report	M3UA_Link.Huawei.M3UA_link_utilisation.M3UA_LINK_TOTAL_PACKETS, M3UA_Link.Huawei.M3UA_link_utilisation.M3UA_LINK_SEND_PACKETS, M3UA_Link.Huawei.M3UA_link_utilisation.M3UA_LINK_RECV_PACKETS, M3UA_Link.M3UA_Link_Id, M3UA_Link.Node_Id

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