

NOKIA

Parameter Changes between Releases S9 and S10

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1 Changes in BSS radio network parameters

The following lists new, changed and removed BSS radio network parameters, PAFILE parameters and PRFILE parameters. There is also a new group of parameters, FIFILE, which are listed in *PRFILE and FIFILE Parameter List*.

1.1 New object classes in BSS Radio network parameters

- LCS element
- SMLC
- LMU area
- REPEATER
- RIT Transfer Table

1.2 New BSS Radio network parameters

BSC

AMR configuration in handovers (ACH)

initial AMR channel rate (IAC)

slow AMR LA enabled (SAL)

AMR set grades enabled (ASG)

free TSL for CS downgrade (CSD)

free TSL for CS upgrade (CSU)

maximum number of DL TBF (MNDL)

maximum number of UL TBF (MNUL)

FEP in PC HO use (FPHO)

DL high priority SSS (DHP)

DL normal priority SSS (DNP)

DL low priority SSS (DLP)

UL priority1 SSS (UP1)

UL priority 2 SSS (UP2)

UL priority 3 SSS (UP3)

UL priority 4 SSS (UP4)

BTS

SEG identification (SEG)

SEG name (SEGNAME)

network service entity identifier (NSEI)

routing area code (RAC)

GPRS enable (GENA)

new SEG name (NEWSEGNAME)

GPRS not allowed access classes (GACC)

GPRS cell barred (GBAR)

GPRS rxlev access min (GRXP)

GPRS ms txpwr max cch (GTXP)

GPRS cell reslect hysteresis (GHYS)

GPRS non BCCH layer rxlev upper limit (GPU)

GPRS non BCCH layer rxlev lower limit (GPL)

direct GPRS access BTS (DIRE)

ra reselect hysteresis (RRH)

C31 hysteresis (CHYS)

C32 qual (QUAL)
random access retry (RAR)
reselection time (RES)
priority class (PRC)
HCS threshold (HCS)
PBCCH blocks (PBB)
paging blocks reserve (PBR)
PRACH blocks (PRB)
non BCCH layer offset (NBL)
calculate minimum number of slots (CALC)
GPRS number of slots spread transmission (GSLO)
GPRS max number of retransmission (GRET)
BTS load in SEG (LSEG)
EGPRS enabled (EGENA)
max GPRS capacity (CMAX)
DL adaption probability threshold (DLA)
UL adaption probability threshold (ULA)
DL BLER crosspoint CS selection no hop (DLB)
UL BLER crosspoint CS selection no hop (ULB)
DL BLER crosspoint CS selection hop (DLBH)
UL BLER crosspoint CS selection hop (ULBH)
initial MCS for acknowledged mode (MCA)
initial MCS for unacknowledged mode (MCU)
maximum BLER in acknowledged mode (BLA)
maximum BLER in unacknowledged mode (BLU)
mean BEP offset GMSK (MBG)

mean BEP offset 8PSK (MBP)
network service entity identifier (NSEI)
AMR FR codec mode set (FRC)
AMR HR codec mode set (HRC)
AMR FR start mode (FRS)
AMR FR initial codec mode indicator (FRI)
AMR FR threshold 1 (FRT1)
AMR FR threshold 2 (FRT2)
AMR FR threshold 3 (FRT3)
AMR FR hysteresis 1 (FRH1)
AMR FR hysteresis 2 (FRH2)
AMR FR hysteresis 3 (FRH3)
AMR HR start mode (HRS)
AMR HR initial codec mode indicator (HRI)
AMR HR threshold 1 (HRT1)
AMR HR threshold 2 (HRT2)
AMR HR threshold 3 (HRT3)
AMR HR hysteresis 1 (HRH1)
AMR HR hysteresis 2 (HRH2)
AMR HR hysteresis 3 (HRH3)

Adjacent cell

reference SEG identification (RSEG)
reference SEG name (RSEGNAME)
new adjacent SEG identification (NEWASEG)
new adjacent SEG name (NEWASEGNAME)
adjacent SEG identification (ASEG)

adjacent SEG name (ASEGNAME)
MS TX pwr max gsm (PMAX1)
MS TX pwr max gsm1x00 (PMAX2)
AMR target cell of direct access to desired layer (DADLA)
adjacent GPRS enabled (AGENA)
GPRS rxlev access min (GRXP)
GPRS MS txpwr max CCH (GTXP)
priority class (PRC)
HCS signal level threshold (HCS)
GPRS temporary offset (GTEO)
GPRS penalty time (GPET)
GPRS reselect offset (GREO)
routing area code (RAC)
GPRS cell barred (GBAR)

Handover Control

reference SEG identification (RSEG)
reference SEG name (RSEGNAM)
threshold dl Rx qual AMR FR (QDRF)
threshold ul Rx qual AMR FR (QURF)
threshold dl Rx qual AMR HR (QDRH)
threshold ul Rx qual AMR HR (QURH)
intra HO threshold Rx qual AMR FR (IHRF)
intra HO threshold Rx qual AMR HR (IHRH)
super reuse good C/I threshold AMR FR (GCIF)
super reuse bad C/I threshold AMR FR (BCIF)
super reuse good C/I threshold AMR HR (GCIH)

super reuse bad C/I threshold AMR HR (BCIH)

Power Control

reference SEG identification (RSEG)

reference SEG name (RSEGNAME)

pc upper threshold dl Rx qual AMR FR (UDRF)

pc upper threshold ul Rx qual AMR FR (UURF)

pc lower threshold dl Rx qual AMR FR (LDRF)

pc lower threshold ul Rx qual AMR FR (LURF)

pc upper threshold dl Rx qual AMR HR (UDRH)

pc upper threshold ul Rx qual AMR HR (UURH)

pc lower threshold dl Rx qual AMR HR (LDRH)

pc lower threshold ul Rx qual AMR HR (LURH)

bit error probability period (BEP)

TRX

GPRS ENABLED TRX (GTRX)

DYNAMIC ABIS POOL ID (DAP)

SMLC

LMU REPORTING FORMAT (LRF)

LMU REPORTING PERIOD (LRP)

LCS element

LOCATION AREA CODE (LAC)

CELL IDENTIFICATION (CI)

BCCH FREQUENCY (FREQ)

NETWORK COLOUR CODE (NCC)

BTS COLOUR CODE (BCC)

LATITUDE DEGREES (LAD)

LATITUDE MINUTES (LAM)
LATITUDE SECONDS (LAS)
LATITUDE FRACTIONS (LAF)
LONGITUDE DEGREES (LOD)
LONGITUDE MINUTES (LOM)
LONGITUDE SECONDS (LOS)
LONGITUDE FRACTIONS (LOF)
ALTITUDE OF GROUND LEVEL (AL)
CELL TYPE (CET)
COVERAGE TYPE (COT)
ANTENNA BEARING (ABE)
CITY TYPE (CIT)
A HATA (AHA)
B HATA (BHA)
ANTENNA HEIGHT (AHE)
ANTENNA TILT ANGLE (ATA)
ANTENNA TILT TYPE (ATY)
ANTENNA HORIZONTAL HALF POWER BEAM WIDTH (AHB)
ANTENNA VERTICAL HALF POWER BEAM WIDTH (AVB)
ANTENNA MINIMUM FRONT TO BACK RATIO (AR)
MAXIMUM RADIATED POWER (MRP)
PREDICTED FRONT SERVING RADIUS (FSR)
PREDICTED BACK SERVING RADIUS (BSR)
PREDICTED FRONT HEARABILITY RADIUS (FHR)
PREDICTED BACK HEARABILITY RADIUS (BHR)
HEARABILITY LEVEL (HL)

TIME SLOT SCHEME (TSS)

LCS NEIGHBOUR (LCSN)

NEW LOCATION AREA CODE (NLAC)

NEW CELL IDENTIFICATION (NCI)

IDENTIFICATION OF FUNCTION (IDF)

LCS ELEMENT IDS (LCSE)

LMU area

LMU AREA IDENTIFICATION (LMUA)

LMU USAGE (LMUU)

FRAME NUMBER OFFSET (FNO)

TRANSMISSION EQUIPMENT (TRE)

BASE CONTROL FUNCTION (BCF)

TRANSCEIVER UNIT (TRX)

REFERENCE LCS ELEMENT (RLCS)

LATITUDE DEGREES (LAD)

LATITUDE MINUTES (LAM)

LATITUDE SECONDS (LAS)

LATITUDE FRACTIONS (LAF)

LONGITUDE DEGREES (LOD)

LONGITUDE MINUTES (LOM)

LONGITUDE SECONDS (LOS)

LONGITUDE FRACTIONS (LOF)

ALTITUDE OF GROUND LEVEL (AL)

IDENTIFICATION OF FUNCTION (IDF)

MEASURED LCS ELEMENT (MLCS)

RIT transfer table

RIT TRANSFER TABLE IDENTIFICATION (RIT)

RIT UPDATE REPORTING FORMAT (RRF)

RIT UPDATE REPORTING PERIOD (RRP)

TARGET SMLC (TS)

SMLC GATEWAY (SGW)

IDENTIFICATION OF FUNCTION (IDF)

TRANSFER TABLE (TRT)

Repeater

REPEATER IDENTIFICATION (REP)

REPEATED LCS ELEMENT (RELCS)

LATITUDE DEGREES (LAD)

LATITUDE MINUTES (LAM)

LATITUDE SECONDS (LAS)

LATITUDE FRACTIONS (LAF)

LONGITUDE DEGREES (LOD)

LONGITUDE MINUTES (LOM)

LONGITUDE SECONDS (LOS)

LONGITUDE FRACTIONS (LOF)

ALTITUDE OF GROUND LEVEL (AL)

REPEATER INTERNAL DELAY (RDE)

HOP DELAY (HDE)

CELL TYPE (CET)

COVERAGE TYPE (COT)

CITY TYPE (CIT)

A HATA (AHA)

B HATA (BHA)

REPEATER ANTENNA HEIGHT (RH)

REPEATER ANTENNA BEARING (RB)

REPEATER ANTENNA TILT ANGLE (RTA)

REPEATER ANTENNA TILT TYPE (RTT)

REPEATER ANTENNA HORIZONTAL HALF POWER BEAM WIDTH (RHB)

REPEATER ANTENNA VERTICAL HALF POWER BEAM WIDTH (RVB)

REPEATER ANTENNA MINIMUM FRONT TO BACK RATIO (RAR)

A2 HATA (A2H)

B2 HATA (B2H)

DONOR ANTENNA HEIGHT (DH)

DONOR ANTENNA BEARING (DB)

DONOR ANTENNA TILT ANGLE (DTA)

DONOR ANTENNA TILT TYPE (DTT)

DONOR ANTENNA HORIZONTAL HALF POWER BEAM WIDTH (DHB)

DONOR ANTENNA VERTICAL HALF POWER BEAM WIDTH (DVB)

DONOR ANTENNA MINIMUM FRONT TO BACK RATIO (DAR)

MAXIMUM DOWNLINK GAIN (MDG)

MAXIMUM UPLINK GAIN (MUG)

PREDICTED FRONT SERVING RADIUS (FSR)

PREDICTED BACK SERVING RADIUS (BSR)

PREDICTED FRONT HEARABILITY RADIUS (FHR)

PREDICTED BACK HEARABILITY RADIUS (BHR)

HEARABILITY LEVEL (HL)

New Channel

MPBCCH

1.3 Changed BSS Radio network parameters

TRX

Parameters `FREQ`, `IFREQ` and `BFREQ` have the new BAND 850 frequency.

2

Changes in PAFILE parameters

New parameters

REPEAT COUNT FOR ALARM 3121

FEP CORR WITH RXQUAL IN PC&HO ALGRTHM CL1

FEP CORR WITH RXQUAL IN PC&HO ALGRTHM CL2

FEP CORR WITH RXQUAL IN PC&HO ALGRTHM CL3

FEP CORR WITH RXQUAL IN PC&HO ALGRTHM CL4

FEP CORR WITH RXQUAL IN PC&HO ALGRTHM CL5

FEP CORR WITH RXQUAL IN PC&HO ALGRTHM CL6

FEP CORR WITH RXQUAL IN PC&HO ALGRTHM CL7

SGSN RELEASE

MSC RELEASE

DRX TIMER MAX

TWO-WAY SPEECH PATH CONNECT TRIGGER POINT

3

Changes in PROFILE parameters

New parameters

009:0090 BTS_Q1_RT_UPDATE_COUNT

009:0098 SDCCH_SIGN_SUP_BTS_MSC

037:0026 ATT_850_CH_NBR_1

037:0027 ATT_850_CH_NBR_2

037:0028 ATT_850_CH_NBR_3

037:0029 ATT_850_CH_NBR_4

037:0030 ATT_850_CH_NBR_5

037:0031 ATT_850_CH_NBR_6

037:0032 ATT_850_CH_NBR_7

037:0033 ATT_850_CH_NBR_8

037:0034 ATT_850_CH_NBR_9

037:0035 ATT_850_CH_NBR_10

046:0046 MEMORY_OUT_FLAG_SUM

046:0047 EGPRS_UPLINK_PENALTY

046:0048 EGPRS_UPLINK_THRESHOLD

046:0049 EGPRS_DOWNLINK_PENALTY

046:0050 EGPRS_DWNLINK_THRESHOLD

046:0051 GPRS_UPLINK_PENALTY

046:0052 GPRS_UPLINK_THRESHOLD

046:0053 GPRS_DOWNLINK_PENALTY
046:0054 GPRS_DOWNLINK_THRESHOLD
046:0055 UPLNK_RX_LEV_FRG_FACTOR
046:0056 GPRS_TBF_REALLC_THRSHLD
046:0057 BTS_LOAD_REALLC_THRSHLD
046:0058 BTS_TSL_BALANCE_THRSHLD
046:0059 TERRIT_BALANCE_THRSHLD
046:0060 TERRIT_UPD_GTIME_GPRS
046:0061 TBF_LOAD_GUARD_THRSHLD
046:0062 TBF_SIGNAL_GRD_THRSHLD
046:0063 EGPRS_RE_SEGMENTATION
046:0064 PRE_EMPTIVE_TRANSMISSIO
049:0020 FC_R_DIF_TRG_LIMIT
049:0021 FC_MS_R_DEF
049:0022 FC_MS_R_DEF_EGPRS
049:0023 FC_MS_R_MIN
049:0024 FC_MS_B_MAX_DEF
049:0025 FC_MS_B_MAX_DEF_EGPRS
049:0026 FC_R_TSL
049:0027 FC_R_TSL_EGPRS
049:0028 FC_B_MAX_TSL
049:0029 FC_B_MAX_TSL_EGPRS