NOKIA

DX 200

2003218
S10.5 ANSI documentation set

BSS Radio Network Parameter Dictionary

Contents

Summary of changes

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Changes between document issues are cumulative. Therefore, the latest document issue contains all changes made to previous issues.

CHANGES MADE BETWEEN ISSUES 19 AND 18

Modified parameters:

BSC

maximum number of DL TBF (MNDL): maximum value and default value changed

BTS

fdd cell reselect offset (FDD) and GPRS fdd cell reselect offset (GFDD): default values changed

adjacency on other band (DBC): default value of GSM 800 and GSM 1900 changed

Adjacent GSM cell

BCCH frequency (FREQ): new ranges added

Handover control

default value of intra HO threshold Rx qual AMR HR (IHRH) changed

BCCH allocation frequency list (BA), optional (Double BA lists)

frequency: new ranges and a note added

CHANGES MADE BETWEEN ISSUES 18 AND 17

New object class:

Adjacent WCDMA RAN cell (UADJC)

New parameters:

BSC

pre-emption usage in handover (PRE)

BTS

fdd cell reselect offset (FDD), GPRS fdd cell reselect offset (GFDD), GPRS minimum fdd threshold (GFDM), GPRS MS txpwr max cch1x00 (GTXP2), GPRS threshold to search WCDMA RAN cells (QSRP), minimum FDD threshold (FDM), MS txpwr max CCH1x00 (TXP2), threshold to search WCDMA RAN cells (QSRI), transport type (TRAT)

Adjacent cell

GPRS MS TX pwr max CCH1x00 (GTXP2)

Adjacent WCDMA RAN cell (UADJC)

adjacent cell index (INDEX), cell identification (CI), downlink transmission diversity (DIV), location area code (LAC), minimum CPICH Ec/Io level (MET), mobile country code (MCC), mobile network code (MNC), radio network controller identifier (RNC), scrambling code (SCC), service area code (SAC), WCDMA downlink carrier frequency (FREQ)

Handover control

adjacent UTRAN cell averaging window size (UAWS), all adjacent WCDMA RAN cells averaged (UAAC), minimum interval between unsuccessful ISHO attempts (UMIU), minimum traffic load for a non-transparent data call (LTNT), minimum traffic load for a speech call (LTSC), non bcch layer access threshold (LAR), non bcch layer exit threshold (LER), non BCCH layer exit threshold Nx (LEN), non bcch layer exit threshold Px (LEP), number of measured FDD cells (FDMR), number of WCDMA RAN zero results (UNOZ), threshold for multi-RAT MS (QSRC)

Network service virtual connection (NS_VC), optional (Gb Interface functionality)

BCSU logical index, local UDP port number (LPNBR), new remote data weight (NEWRDW), new remote signalling weight (NEWRSW), PCU logical index, preconfigured SGSN IP endpoint (PRE), remote data weight (RDW), remote IP address (RIP), remote signalling weight (RSW), remote UDP port number (RPNBR)

Modified parameters:

BSC

Description has been changed: free TSL for CS downgrade (CSD), free TSL for CS upgrade (CSU)

Optionality reference modified: intra segment SDCCH HO guard (ISS)

Value range and default value changed: maximum number of DL TBF (MNDL)

Value range changed: maximum number of UL TBF (MNUL)

BTS

Description has been changed: GPRS MS txpwr max cch (GTXP), MS txpwr max CCH (TXP)

Optionality reference modified: non BCCH layer offset (NBL), SEG identification (SEG), SEG name (SEGNAME)

Optionality reference added: BTS load in SEG (LSEG)

Value range changed: direct GPRS access threshold (DIRE)

Adjacent cell

GPRS MS TX pwr max CCH (GTXP)

LCS

Value range has been changed: cell identification (CI), location area code (LAC), LCS element IDs (LCSE), LCS neighbour (LCSN)

Optionality references modified.

LMU

Value range has been changed: measured LCS element (MLCS), reference LCS element (RLCS)

Optionality references modified.

REPEATER

Optionality references modified.

RITTT

Value range has been changed: SMLC gateway (SGW), target SMLC (TS), transfer table (TRT)

Optionality references modified.

Other changes:

Band 850 replaced with GSM 800 throughout the document.

CHANGES MADE BETWEEN ISSUES 17 AND 16V

New object classes:

LCS element

SMLC

LMU area

REPEATER

RIT Transfer Table

New 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 enabled (GENA), GPRS not allowed access classes (GACC), GPRS cell barred (GBAR), GPRS rxlev access min (GRXP), GPRS ms txpwr max cch (GTXP), GPRS cell reselect hysteresis (GHYS), GPRS non BCCH layer rxlev upper limit (GPU), GPRS non BCCH layer rxlev lower limit (GPL), direct GPRS access threshold (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), PAGCH blocks (PAB), PRACH blocks (PRB), non BCCH layer offset (NBL), calculation of 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), MS TX pwr max gsm (PMAX1), MS TX pwr max gsm1x00 (PMAX2)

Adjacent cell

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

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

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

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), 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), measured lcs element (MLCS)

Repeater

repeater identification (REP), 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)

RIT transfer table

rit transfer table identification (RIT), target smlc (TS), smlc gateway (SGW), transfer table (TRT)

New Channel:

MPBCCH

Changed parameters:

TRX

FREQ, IFREQ and BFREQ-parameters have the new BAND 850 frequency.

CHANGES MADE BETWEEN ISSUES 16V AND 16

Changed parameters:

BTS

default GPRS capacity (CDEF), prefer BCCH frequency GPRS (BFG), TRX priority in TCH allocation, number of multiframes (MFR)

POC

binary representation ALPHA (ALPHA), binary representation TAU (GAMMA)

NS_VC

bearer channel name, committed information rate (CIR)

Removed parameters:

POC

PBCCH power reduction value (PRV)

Other changes:

Name of option Intelligent Shutdown with Timer Control has been corrected.

1 Introduction to BSS Radio Network Parameter Dictionary

1.1 Introduction to BSS Radio Network Parameter Dictionary

The aim of the parameter dictionary is to assist commissioning engineers and other BSC users to find certain BSS parameters, their meanings and relations to GSM specifications.

Note that parameters that are in other databases or files are not listed here.

1.1.1 Structure of BSS Radio Network Parameter Dictionary

The dictionary gives the following information for each parameter:

- GSM reference
- Q3 name
- Modification
- Range
- MML default value
- Description on what the parameter is used for
- Related command(s)
- Note (when needed) Optional parameters are marked as OPTIONAL. The name of the optional feature that needs to be activated before the parameter is taken into use is given inside brackets. For example: OPTIONAL (Intelligent Shutdown with Timer Control) means that the parameter is optional and is in use when the feature Intelligent Shutdown with Timer Control is in use.

2 BSC

2.1 alarm limit for full rate TCH availability (ALFRT)

GSM reference:	No ref.
Q3 name:	frTchALim
Modification:	Online
Range:	0..100 (%)
MML default:	30
Description:	With this parameter you define the alarm limit for available full rate traffic channels. The parameter is used by radio network recovery.
Related command(s):	EEQ, EEO

2.2 alarm limit for half rate TCH availability (ALHRT)

GSM reference:	No ref.
Q3 name:	hrTchALim
Modification:	Online
Range:	1..100 (%)
MML default:	30
Description:	With this parameter you define the alarm limit for available half rate traffic channels. The parameter is used by radio network recovery.
Related command(s):	EEQ, EEO

2.3 alarm limit for SDCCH availability (ALSDC)

GSM reference:	No ref.
Q3 name:	sdcchAlLimit
Modification:	Online
Range:	0..100 (%)
MML default:	30
Description:	With this parameter you define the alarm limit for available SDCCHs. The limit is the ratio of working SDCCHs to working TCHs in percent. The parameter is used by radio network recovery.
Related command(s):	EEQ, EEO

2.4 alarm threshold for number of channel seizures (CS)

GSM reference:	No ref.
Q3 name:	alrmNoOfSei
Modification:	Online
Range:	1..65535
MML default:	10
Description:	The parameter supervises lost calls and too short a mean holding time in the traffic channels. With this parameter you define an alarm threshold for the number of channel seizures. Only when the number of channel seizures during the measurement period equals or exceeds this threshold, the alarm threshold values for *minimum mean holding time for TCHs* and *alarm threshold for TCH failure rate* are taken into account.
Related command(s):	EEN, EEO

2.5 alarm threshold for number of channel seizure requests (CSR)

GSM reference:	No ref.
Q3 name:	alrmSeizReq
Modification:	Online
Range:	1..65535
MML default:	100
Description:	The parameter supervises SDCCH and TCH congestion. With this parameter you define an alarm threshold for the number of channel seizure requests. Only when the number of channel seizure requests during the measurement period equals or exceeds this threshold, the values for *alarm threshold for TCH congestion* and *alarm threshold for SDCCH congestion* are taken into account.
Related command(s):	EEN, EEO

2.6 alarm threshold for SDCCH congestion (CNGS)

GSM reference:	No ref.
Q3 name:	alrmSdcch
Modification:	Online
Range:	1..100 (%)
MML default:	20
Description:	With this parameter you define an alarm threshold for SDCCH congestion. This parameter supervises the traffic level of signalling channels in a BTS. If the percentage of SDCCH seizure requests refused due to congestion equals or exceeds the threshold and there have been enough call attempts during the measurement period (the number of seizure requests is greater than or equals the operator-defined threshold value), the alarm system prints out an alarm.
Related command(s):	EEN, EEO

2.7 alarm threshold for SDCCH failure rate (SCHFR)

GSM reference:	No ref.
Q3 name:	alrmSchFail
Modification:	Online
Range:	1..100 (%)
MML default:	80
Description:	With this parameter you define an alarm threshold for the SDCCH failure rate. If the number of SDCCH failures equals or exceeds the threshold, the alarm system prints out an alarm.
Related command(s):	EEN, EEO

2.8 alarm threshold for TCH congestion (CNGT)

GSM reference:	No ref.
Q3 name:	alrmTch
Modification:	Online
Range:	1..100 (%)
MML default:	20
Description:	With this parameter you define an alarm threshold for traffic channel congestion. The parameter supervises the traffic level of traffic channels in a BTS. If the percentage of TCH seizure requests refused due to congestion equals or exceeds the threshold and there have been enough call attempts during the measurement period (the number of seizure requests is greater than or equals the operator-defined threshold value), the alarm system prints out an alarm.
Related command(s):	EEN, EEO

2.9 alarm threshold for TCH failure rate (TCHFR)

GSM reference:	No ref.
Q3 name:	alrmChFail
Modification:	Online
Range:	1..100 (%)
MML default:	20
Description:	With this parameter you define an alarm threshold for traffic channel failure rate. Whenever a channel is released with a release cause other than a normal one, the counter of channel failures for the released channel is incremented. If the percentage of channel failures equals or exceeds the threshold and there have been enough calls during the measurement period (the number of seizures is greater than or equals the operator-defined threshold value), the alarm system prints out an alarm.
Related command(s):	EEN, EEO

2.10 alarm threshold for the share of high TCH interference (HIFSHR)

GSM reference:	No ref.
Q3 name:	maxOnHiIf
Modification:	Online
Range:	1..100 (%)
MML default:	50
Description:	With this parameter you define the maximum time in percent that a TCH may be on high interference levels during a measurement period.
Related command(s):	EEN, EEO

2.11 AMH lower load threshold (ALT)

GSM reference:	No ref.
Q3 name:	amhLowerLoadThreshold
Modification:	Online
Range:	0..100 (%)
MML default:	20
Description:	With this parameter you define the lower threshold for the load of the base station. The parameter is used to trigger advanced multilayer handling functionality with IUO and/or Dual Band/ microcell features.
Related command(s):	EEM, EEO
Note:	OPTIONAL (Advanced multilayer handling)

2.12 AMH max load of target cell (AML)

GSM reference:	No ref.
Q3 name:	amhMaxLoadOfTgtCell
Modification:	Online
Range:	0..100 (%)
MML default:	70
Description:	With this advanced multilayer handling parameter you define the maximum traffic load in adjacent cell allowed for a target cell of traffic reason handover (TRHO).
Related command(s):	EEM, EEO
Note:	OPTIONAL (Advanced multilayer handling)

2.13 AMH upper load threshold (AUT)

GSM reference:	No ref.
Q3 name:	amhUpperLoadThreshold
Modification:	Online
Range:	0..100 (%)
MML default:	80
Description:	With this parameter you define the upper threshold for the load of the base station. The parameter is used to trigger BSC-controlled traffic reason handovers.
Related command(s):	EEM, EEO
Note:	OPTIONAL (Advanced multilayer handling)

2.14 AMR configuration in handovers (ACH)

GSM reference:	No ref.
Q3 name:	amrConfInHandovers
Modification:	Online
Range:	1 = the currently used multirate configuration is preferred in further channel allocations 2 = the multirate configuration of target BTS is preferred in further channel allocations
MML default:	1
Description:	With this parameter you define the preference between the currently used multirate configuration and the one defined for the target BTS during internal and external handovers.
Related command(s):	EEM, EEO
Note:	Optional (AMR Codec)

2.15 AMR set grades enabled (ASG)

GSM reference:	No ref.
Q3 name:	amrSetGradesEnabl
Modification:	Online
Range:	Y = downgrades and upgrades are applied N = downgrades and upgrades are not applied
MML default:	N
Description:	With this parameter you define whether codec mode set downgrades during internal HOs and upgrades after internal HOs are applied or not.
Related command(s):	EEM, EEO
Note:	Optional (AMR Codec)

2.16 bad quality limit (BQL)

GSM reference:	No ref.
Q3 name:	badQualLimit
Modification:	Online
Range:	0..100 (%)
MML default:	100
Description:	With this parameter you define the limit for bad signal quality. Signal quality is the proportion of bad samples in all samples in signal quality measurement.
Related command(s):	EEU, EEO

2.17 BCSU load threshold (BCSUL)

GSM reference:	No ref.
Q3 name:	bcsuLoadThr

Modification:	Online
Range:	0..10000 (0..100%)
MML default:	150
Description:	With this parameter you define the threshold for the proportion of rejected measurement results in all measurement results. An overload in the BCSU unit causes the rejections. If the threshold is exceeded, the BCSU unit is regarded as overloaded, and the BSC generates the relevant alarm.
Related command(s):	EEQ, EEO

2.18 BSC call number (BCN)

GSM reference:	No ref.
Q3 name:	bscCallNumber
Modification:	Online
Range:	0000..999999999999999, from 4 to 15 digits
MML default:	0000
Description:	With this parameter you define the BSC ISDN call number.
Related command(s):	EEM, EEO
Note:	OPTIONAL (ISDN Abis)

2.19 BTS site battery backup forced HO timer (TIM)

GSM reference:	No ref.
Q3 name:	batteryBackupTimer
Modification:	Online
Range:	1..500 (s)
MML default:	30
Description:	The parameter defines the maximum time period during which

	handover is attempted in TRXs.
Related command(s):	EEM, EEO
Note:	OPTIONAL (Intelligent Shutdown with Timer Control)

2.20 DCS macrocell threshold (DMAC)

GSM reference:	No ref.
Q3 name:	dcsMacrocellThreshold
Modification:	Online
Range:	GSM 1800: 0..36 (dBm), with 2 dBm step GSM 1900: 0..32 (dBm), with 2 dBm step, and 33 (dBm)
MML default:	26
Description:	With this parameter you define the macrocell size by means of the maximum transmission power of the MS in a GSM 1800 or GSM 1900 cell. If you set the parameter value at 0 dBm, the division of cells into macrocells and microcells is not in use.
Related command(s):	EEM, EEO

2.21 DCS microcell threshold (DMIC)

GSM reference:	No ref.
Q3 name:	dcsMicrocellThreshold
Modification:	Online
Range:	GSM 1800: 0..36 (dBm), with 2 dBm step GSM 1900: 0..32 (dBm), with 2 dBm step, and 33 (dBm)
MML default:	24
Description:	With this parameter you define the microcell size by means of the maximum transmission power of the MS in a GSM 1800 or GSM 1900 cell. If you set the parameter value at 36/33 dBm, the division of cells into macrocells and microcells is not in use.

Related command(s): EEM, EEO

2.22 disable external DR (DEXDR)

GSM reference: No ref.

Q3 name: disableExtDr

Modification: Online

Range: Y (disable external directed retry handovers)
N (enable external directed retry handovers)

MML default: N

Description: With this parameter you disable or enable the external directed retry handovers.

Related command(s): EEQ, EEO

2.23 disable internal HO (DINHO)

GSM reference: No ref.

Q3 name: disableIntHo

Modification: Online

Range: Y (all handovers are controlled by the MSC)
N (all handovers are not controlled by the MSC)

MML default: N

Description: With this parameter you define whether all handovers are controlled by the MSC or not.

Related command(s): EEQ, EEO

2.24 DL high priority SSS (DHP)

GSM reference:	No ref.
Q3 name:	schedulingStepSize
Modification:	Online
Range:	1 - 12
MML default:	3
Description:	With this parameter you define the scheduling step size (SSS) for the high priority level in the downlink direction.
Related command(s):	EEV, EEO
Note:	Optional (Gb Interface functionality)

2.25 DL low priority SSS (DLP)

GSM reference:	No ref.
Q3 name:	schedulingStepSize
Modification:	Online
Range:	1 - 12
MML default:	12
Description:	With this parameter you define the scheduling step size (SSS) for the low priority level in the downlink direction.
Related command(s):	EEV, EEO
Note:	Optional (Gb Interface functionality)

2.26 DL normal priority SSS (DNP)

GSM reference:	No ref.
Q3 name:	schedulingStepSize
Modification:	Online

Range:	1 - 12
MML default:	6
Description:	With this parameter you define the scheduling step size (SSS) for the normal priority level in the downlink direction.
Related command(s):	EEV, EEO
Note:	Optional (Gb Interface functionality)

2.27 enable answer to paging call on FACCH (EPF)

GSM reference:	No ref.
Q3 name:	pagingAnsOnFacch
Modification:	Online
Range:	Y (enable answer to paging call setup on FACCH) N (disable answer to paging call setup on FACCH)
MML default:	N
Description:	With this parameter you enable or disable an answer to the paging call setup on FACCH. FACCH call setup is only possible when SDCCH congestion occurs.
Related command(s):	EEM, EEO
Note:	OPTIONAL (FACCH Call Set Up) You can set the FACCH call setup feature ON or OFF in PRFILE.

2.28 enable call re-establishment on FACCH (ERF)

GSM reference:	No ref.
Q3 name:	reestablishOnFacch
Modification:	Online
Range:	Y (enable call re-establishment setup on FACCH) N (disable call re-establishment setup on FACCH)

MML default: N

Description: With this parameter you enable or disable the call re-establishment setup on FACCH. FACCH call setup is only possible when SDCCH congestion occurs.

Related command(s): EEM, EEO

Note: OPTIONAL (FACCH Call Set Up)

Call re-establishment setup on FACCH is only possible in those cells in which call re-establishment is allowed (the EQF command, parameter RE).

You can set the FACCH call setup feature ON or OFF in PRFILE.

2.29 enable emergency call on FACCH (EEF)

GSM reference: No ref.

Q3 name: emerCallOnFacch

Modification: Online

Range: Y (enable emergency call setup on FACCH)

N (disable emergency call setup on FACCH)

MML default: N

Description: With this parameter you enable or disable the emergency call setup on FACCH.

Related command(s): EEM, EEO

Note: Emergency call setup on FACCH is only possible in those cells in which emergency calls are not restricted (the EQF command, parameter EC). FACCH call setup is only possible when SDCCH congestion occurs.

2.30 enable ordinary calls on FACCH (EOF)

GSM reference: No ref.

Q3 name: ordinaryCallOnFacch

Modification: Online

Range:	Y (enable ordinary calls setup on FACCH) N (disable ordinary calls setup on FACCH)
MML default:	N
Description:	With this parameter you enable or disable the ordinary call setup on FACCH. FACCH call setup is only possible when SDCCH congestion occurs.
Related command(s):	EEM, EEO
Note:	OPTIONAL (FACCH Call Set Up) You can set the FACCH call setup feature ON or OFF in PRFILE.

2.31 ending moment for supervision of BTS (EMBNT)

GSM reference:	No ref.
Q3 name:	nokBtsOff
Modification:	Online
Range:	00-00 .. 23-59
MML default:	18-00
Description:	With this parameter you define the time of day when the BTS supervision ends. Ending moment is given in hours and minutes.
Related command(s):	EEN, EEO

2.32 FEP in PC HO use (FPHO)

GSM reference:	No ref.
Q3 name:	fepInPcHoUse
Modification:	Online
Range:	Y = the Power Control and Handover decision-making is used N = the Power Control and Handover decision-making is not used
MML default:	N

Description:	With this parameter you can indicate whether the Frame Error Probability based Power Control (PC) and Handover (HO) decision-making is used in the Power Control and Handover algorithm.
Related command(s):	EEQ, EEO
Note:	Optional (FER Measurement)

2.33 free TSL for CS downgrade (CSD)

GSM reference:	No ref.
Q3 name:	freeTSLsCsDowngrade
Modification:	Online
Range:	0 - 100 (%)
MML default:	95
Description:	The parameter gives a target probability of TCH availability for circuit switched services in a BTS with GPRS territory. Based on the given probability and the size of a BTS (number of TRXs) the BSC defines a margin of idle TCHs that it tries to maintain free for the incoming circuit switched TCH requests in the BTS. If the number of idle TCHs in the circuit switched territory of a BTS decreases below the defined margin a GPRS territory downgrade is started. In the margin definition the BSC uses a table that is shown in "GPRS territory downgrade" of "GPRS in BSC".
Related command(s):	EEM, EEO
Note:	Optional (Gb Interface functionality)

2.34 free TSL for CS upgrade (CSU)

GSM reference:	No ref.
Q3 name:	freeTSLsCsUpgrade
Modification:	Online
Range:	0 - 10 (s)

MML default:	4
Description:	With this parameter you define a period following a GPRS upgrade during which the probability for a GPRS downgrade in a BTS should be no more than 5%. Based on the given time and the size of a BTS (number of TRXs) the BSC defines a margin of idle TSLs that is required as a condition for starting a GPRS territory upgrade in the BTS. A GPRS upgrade may be done if the number of free TSLs in a BTS is at least equal to the defined margin still after the upgrade. In the margin definition the BSC uses a table that is shown in "GPRS territory upgrade" of "GPRS in BSC".
Related command(s):	EEM, EEO
Note:	Optional (Gb Interface functionality)

2.35 good quality limit (GQL)

GSM reference:	No ref.
Q3 name:	goodQualLimit
Modification:	Online
Range:	0..100 (%)
MML default:	100
Description:	With this parameter you define the limit for good signal quality.
Related command(s):	EEU, EEO
Note:	The value of the parameter has to be equal to or smaller than the value of the *signal quality limit 2* (SQL2) parameter. OPTIONAL (Dynamic Hotspot)

2.36 GPRS territory update guard time (GTUGT)

GSM reference:	No ref.
Q3 name:	terrUpdateGuardTimeGPRS
Modification:	Online

Range:	1 .. 255 (s)
MML default:	5
Description:	With this parameter you set the timer which must elapse between two subsequent territory updates.
Related command(s):	EEN, EEO
Note:	OPTIONAL (Gb Interface functionality)

2.37 GSM macrocell threshold (GMAC)

GSM reference:	No ref.
Q3 name:	gsmMacrocellThreshold
Modification:	Online
Range:	5..43 (dBm), with a step size of 2 dBm
MML default:	35
Description:	With this parameter you define the macrocell size by means of the maximum transmission power of the MS in a GSM cell. If you set the parameter value at 5 dBm, the division of cells into macrocells and microcells is not in use.
Related command(s):	EEM, EEO

2.38 GSM microcell threshold (GMIC)

GSM reference:	No ref.
Q3 name:	gsmMicrocellThreshold
Modification:	Online
Range:	5..43 (dBm), with a step size of 2 dBm
MML default:	33
Description:	With this parameter you define the microcell size by means of the maximum transmission power of the MS in a GSM cell. If you set the parameter value at 43 dBm, the division of cells into

macrocells and microcells is not in use.

Related command(s): EEM, EEO

2.39 HO preference order interference DL (HDL)

GSM reference: No ref.

Q3 name: hoPreferenceOrderInterfDL

Modification: Online

Range: INTER, INTRA

MML default: INTER

Description: With this parameter you define the order of preference between intra-cell and inter-cell handovers when the cause of the handover is downlink interference.

Related command(s): EEM, EEO

2.40 HO preference order interference UL (HUL)

GSM reference: No ref.

Q3 name: hoPreferenceOrderInterfUL

Modification: Online

Range: INTER, INTRA

MML default: INTER

Description: With this parameter you define the order of preference between intra-cell and inter-cell handovers when the cause of the handover is uplink interference.

Related command(s): EEM, EEO

2.41 initial AMR channel rate (IAC)

GSM reference:	No ref.
Q3 name:	initAmrChannelRate
Modification:	Online
Range:	1 = any Rate, there are no extra requirements by the parameter and the chosen channel rate is defined by taking into account the currently used information for channel allocation 2 = AMR FR is allocated despite of the values of the currently used information for channel allocation
MML default:	1
Description:	With this parameter you define the initial channel in call setup, internal inter cell handover (HO) and external HO for an Adaptive Multi Rate (AMR) call.
Related command(s):	EEM, EEO
Note:	Optional (AMR Codec)

2.42 intra segment SDCCH HO guard (ISS)

GSM reference:	
Q3 name:	intraSegSdcchGuard
Modification:	Online
Range:	0 - 255 (s)
MML default:	255
Description:	With this parameter you define the guard time for attempting an SDCCH handover from the BCCH BTS resource layer to another resource layer in a segment.
Related command(s):	EEQ, EEO
Note:	Optional (Common BCCH Control or Multi BCF Control)

2.43 LAPD load threshold (LAPDL)

GSM reference:	No ref.
Q3 name:	lapdLoadThr
Modification:	Online
Range:	0..10 000 (0..100%)
MML default:	150
Description:	With this parameter you define the threshold for the proportion of rejected measurement results in all measurement results. An overload in the telecom Abis LAPD link causes the rejections. If the threshold is exceeded, the LAPD link is regarded as overloaded, and the BSC generates the relevant alarm.
Related command(s):	EEQ, EEO

2.44 load rate for channel search (CLR)

GSM reference:	No ref.
Q3 name:	loadRateForChannelSearch
Modification:	Online
Range:	0 .. 100 (%)
MML default:	100
Description:	With this parameter you define the general load limit for traffic channels in a cell under the BSC. If the TCH load in a cell is below the limit, the traffic channels for speech and single slot data calls are allocated using rotation between TRXs in a cell and between TSLs of a TRX. If the load limit has been reached or exceeded, the TCH allocation is performed trying to save larger spaces of idle FR resources for the possible multislot HSCSD calls by preferring small gaps of free resources and ends of a TRX for single slot calls.
Related command(s):	EEM, EEO
Note:	If the BTS specific parameter *cell load for channel search* has been set (the value is not 0) in a BTS, this will override the effect of the BSC level parameter in that BTS.

2.45 lower limit for FR TCH resources (HRL)

GSM reference:	No ref.
Q3 name:	btsLoadDepTCHRate
Modification:	Online
Range:	0..100 (%)
MML default:	100
Description:	The parameter controls the TCH channel rate determination on the BSC level according to the cell load in traffic channel allocation. With this parameter you define the lower limit for the percentage of free full rate resources. Full rate TCHs are allocated until the number of free full rate resources is reduced below the value of the parameter. The half rate resources are then allocated.
Related command(s):	EEM, EEO
Note:	OPTIONAL (Half Rate)

2.46 maximum mean holding time for SDCCHs (MAXHTS)

GSM reference:	No ref.
Q3 name:	maxHldSdcch
Modification:	Online
Range:	0..1440 (min)
MML default:	30
Description:	With this parameter you define the maximum mean holding time for signalling channels. If the mean holding time during a measurement period is greater than or equals the maximum mean holding time, the alarm system prints out an alarm.
Related command(s):	EEN, EEO

2.47 maximum mean holding time for TCHs (MAXHTT)

GSM reference:	No ref.
Q3 name:	maxHldTch
Modification:	Online
Range:	0..1440 (min)
MML default:	120
Description:	With this parameter you define the maximum mean holding time for traffic channels. If the mean holding time during a measurement period is greater than or equals the maximum mean holding time, the alarm system prints out an alarm.
Related command(s):	EEN, EEO

2.48 maximum number of DL TBF (MNDL)

GSM reference:	No ref.
Q3 name:	pcuMaxNoDLtbfInCH
Modification:	Online
Range:	1 - 9
MML default:	9
Description:	With this parameter you define the maximum number of TBFs that a radio time slot can have in average, in a GPRS territory, in the downlink direction.
Related command(s):	EEQ, EEO
Note:	Optional (Gb Interface functionality)

2.49 maximum number of UL TBF (MNUL)

GSM reference:	No ref.
Q3 name:	pcuMaxNoULtbfInCH
Modification:	Online
Range:	1 - 7
MML default:	7
Description:	With this parameter you define the maximum number of TBFs that a radio time slot can have in average, in a GPRS territory, in the uplink direction.
Related command(s):	EEQ, EEO
Note:	Optional (Gb Interface functionality)

2.50 measurement period for high TCH interference supervision (PRDHIF)

GSM reference:	No ref.
Q3 name:	prdHighIf
Modification:	Online
Range:	0 (deactivated) 5..1440 (min)
MML default:	120
Description:	With this parameter you define the measurement period for the high TCH interference supervision.
Related command(s):	EEN, EEO

2.51 measurement period for SDCCH mean holding time supervision (PRDMHS)

GSM reference:	No ref.
Q3 name:	measPrdSdcch
Modification:	Online
Range:	0 (deactivated) 5..1440 (min)
MML default:	60
Description:	The parameter supervises too long mean holding times in SDCCHs. With this parameter you define the length of the measurement period. The alarms are printed out only at the end of the measurement period.
Related command(s):	EEN, EEO

2.52 measurement period for supervision of BTS with no transactions (PRDBNT)

GSM reference:	No ref.
Q3 name:	prdNokBts
Modification:	Online
Range:	0 (deactivated) 5..1440 (min)
MML default:	120
Description:	With this parameter you define the measurement period for the supervision of BTSs with no transactions.
Related command(s):	EEN, EEO

2.53 measurement period for supervision of channel failure rate (PRDCFR)

GSM reference:	No ref.
Q3 name:	measPrdFail
Modification:	Online
Range:	0 (deactivated) 5..1440 (min)
MML default:	60
Description:	The parameter supervises channel failures both in traffic channels and in SDCCHs. With this parameter you define the length of the measurement period. The alarms are printed out only at the end of the measurement period.
Related command(s):	EEN, EEO

2.54 measurement period for supervision of congestion in BTS (PRDCNG)

GSM reference:	No ref.
Q3 name:	measPrdCh
Modification:	Online
Range:	0 (deactivated) 5..1440 (min)
MML default:	120
Description:	The parameter supervises SDCCH and TCH congestion in a BTS. With this parameter you define the length of the measurement period. The alarms are printed out only at the end of the measurement period.
Related command(s):	EEN, EEO

2.55 measurement period for TCH mean holding time supervision (PRDMHT)

GSM reference:	No ref.
Q3 name:	measTchMhold
Modification:	Online
Range:	0 (deactivated) 5..1440 (min)
MML default:	240
Description:	The parameter supervises too short and too long mean holding times in traffic channels. With this parameter you define the length of the measurement period. The alarms are printed out only at the end of the measurement period.
Related command(s):	EEN, EEO

2.56 minimum mean holding time for TCHs (MINHTT)

GSM reference:	No ref.
Q3 name:	minHldTch
Modification:	Online
Range:	0..65535 (s)
MML default:	10
Description:	With this parameter you define the minimum mean holding time for traffic channels. If the mean holding time is below the minimum mean holding time and there have been enough calls during the measurement period (the number of seizures is greater than or equals the operator-defined threshold value), the alarm system prints out an alarm.
Related command(s):	EEN, EEO

2.57 MS distance behaviour (DISB)

GSM reference:	No ref.
Q3 name:	msDistanceBehaviour
Modification:	Online
Range:	0..60, 255 0 (release immediately) 1 (1 s to try handover, release if handover does not succeed) ... 60 (60 s to try handover, release if handover does not succeed) 255 (no release, only handover attempts)
MML default:	255
Description:	With this parameter you define the executions allowed after the Timing Advance has exceeded the threshold.
Related command(s):	EEM, EEO

2.58 number of ignored transcoder failures (ITCF)

GSM reference:	No ref.
Q3 name:	callReleaseLimit
Modification:	Online
Range:	0..5
MML default:	0
Description:	With this parameter you define how many successive remote transcoder failures the BSC may receive before it releases the call.
Related command(s):	EEQ, EEO

2.59 number of preferred cells (NPC)

GSM reference:	GSM 08.08
Q3 name:	genHandoverReqMessage
Modification:	Online
Range:	1..16
MML default:	3
Description:	With this parameter you define the maximum number of preferred cell identifiers that the BSC sends to the MSC in the HAND-OVER_ REQUIRED message.
Related command(s):	EEM, EEO

2.60 pre-emption usage in handover (PRE)

GSM reference:	No ref.
Q3 name:	–
Modification:	Online
Range:	Y/N
MML default:	Y
Description:	With this parameter you define if the pre-emption feature is applied or not in handovers.
Related command(s):	EEQ, EEO
Note:	Optional (PREEMPT_USAGE_IN_BSC)

2.61 priority level (PR)

GSM reference:	No ref.
Q3 name:	pieToSubscriber
Modification:	Online

Range:	1..14
MML default:	-
Description:	With this parameter you define the priority level to which a certain subscriber type is to be attached.
Related command(s):	EET
Note:	OPTIONAL (Improved Trunk Reservation (TR))

2.62 RX antenna supervision period (RXANT)

GSM reference:	No ref.
Q3 name:	rxAntSupPer
Modification:	Online
Range:	15..65534 (min) 65535 (internal supervision is not performed)
MML default:	65535 (internal supervision is not performed)
Description:	With this parameter you define the time, in minutes, that the BTS uses for the internal RX antenna supervision.
Related command(s):	EEQ, EEO

2.63 RX level balance (RXBAL)

GSM reference:	No ref.
Q3 name:	rxLevBalance
Modification:	Online
Range:	0..20 (dB)
MML default:	5
Description:	With this parameter you define the balance between the downlink signal level and the uplink signal level within the BSC coverage area. Value 5 dB means that the downlink signal is 5 dB stronger than the uplink signal.

Related command(s): EEQ, EEO

2.64 signal quality limit 1 (SQL1)

GSM reference: No ref.

Q3 name: sigQualLimit1

Modification: Online

Range: 0..100 (%)

MML default: 100

Description: With this parameter you define the lower limit for adequate signal quality in adjacent cells.

Related command(s): EEU, EEO

Note: The value of the parameter has to be equal to or smaller than the value of the *bad quality limit* (BQL) parameter.

OPTIONAL (Dynamic Hotspot)

2.65 signal quality limit 2 (SQL2)

GSM reference: No ref.

Q3 name: sigQualLimit2

Modification: Online

Range: 0..100 (%)

MML default: 100

Description: With this parameter you define the upper limit for adequate signal quality in adjacent cells.

Related command(s): EEU, EEO

Note: The value of the parameter has to be equal to or smaller than the value of the *signal quality limit 1* (SQL1) parameter.

OPTIONAL (Dynamic Hotspot)

2.66 slow AMR LA enabled (SAL)

GSM reference:	No ref.
Q3 name:	slowAmrLaEnabled
Modification:	Online
Range:	Y = fast LA N = slow LA
MML default:	N
Description:	With this parameter you define the AMR link adaptation (LA) mode within the BSS.
Related command(s):	EEM, EEO
Note:	Optional (AMR Codec)

2.67 starting moment for supervision of BTS (SMBNT)

GSM reference:	No ref.
Q3 name:	nokBtsOn
Modification:	Online
Range:	00-00 .. 23-59
MML default:	08-00
Description:	With this parameter you define the time of day when the BTS supervision starts. The starting moment is given in hours and minutes.
Related command(s):	EEN, EEO

2.68 subscriber type (ST)

GSM reference:	No ref.
Q3 name:	-
Modification:	Online
Range:	0 (GSM subscriber type) 1 (MCN subscriber type) 2 (Priority subscriber type)
MML default:	0
Description:	With this parameter you define the subscriber type that is to be attached to a certain priority level or levels.
Related command(s):	EET, EEI
Note:	OPTIONAL (Improved Trunk Reservation (TR))

2.69 TCH in handover (HRI)

GSM reference:	No ref.
Q3 name:	tchRateInternalHo
Modification:	Online
Range:	1..5
MML default:	1
Description:	With this parameter you define the traffic channel allocation during BSS internal or external handovers. The parameter controls the target cell selection and the TCH channel rate and speech codec determination in traffic channel allocation. The parameter can have the following values: 1 ... The call serving type of TCH has to be primarily allocated. The call serving type of speech codec inside the call serving type of TCH can change. 2 ... The call serving type of TCH and the call serving type of speech codec are preferred to be primarily allocated during the speech connection. The channel rate change is possible during data connection, if necessary, and if the radio interface data rate allows it. 3 ... The channel rate and speech codec changes are totally

denied.

4 ... The preferred channel rate of TCH and preferred speech codec have to be primarily allocated.

5 ... TCH has to be primarily allocated from the best BTS of the handover candidate list.

Related command(s): EEM, EEO

Note: OPTIONAL (Half Rate OR Enhanced Full Rate Codec)

2.70 TCH probability 1 (TCP1)

GSM reference: No ref.

Q3 name: tchProbability1

Modification: Online

Range: 0..100 (%)

MML default: 100

Description: With this parameter you define the probability of TCH allocation when signal quality in the adjacent cell is between *bad quality limit* (BQL) and *signal quality limit 1* (SQL1).

Related command(s): EEU, EEO

Note: OPTIONAL (Dynamic Hotspot)

2.71 TCH probability 2 (TCP2)

GSM reference: No ref.

Q3 name: tchProbability2

Modification: Online

Range: 0..100 (%)

MML default: 100

Description: With this parameter you define the probability of TCH allocation when signal quality in the adjacent cell is between *signal quality*

limit 1 (SQL1) and *signal quality limit 2* (SQL2).

Related command(s): EEU, EEO

Note: The value of the parameter has to be equal to or greater than the value of the *TCH probability 1* (TCP1) parameter.

OPTIONAL (Dynamic Hotspot)

2.72 TCH probability 3 (TCP3)

GSM reference: No ref.

Q3 name: tchProbability3

Modification: Online

Range: 0..100 (%)

MML default: 100

Description: With this parameter you define the probability of TCH allocation when signal quality in the adjacent cell is between *signal quality limit 2* (SQL2). and *good quality limit* (GQL).

Related command(s): EEU, EEO

Note: The value of the parameter has to be equal to or greater than the value of the *TCH probability 2* (TCP2) parameter.

OPTIONAL (Dynamic Hotspot)

2.73 threshold for high TCH interference level (HIFLVL)

GSM reference: No ref.

Q3 name: minHilf

Modification: Online

Range: 0..4 (0 is the lowest interference level)

MML default: 4

Description: With this parameter you define the interference level which is regarded as high in traffic channel interference supervision.

Related command(s):	EEN, EEO

2.74 TRHO guard time (TGT)

GSM reference:	No ref.
Q3 name:	amhTrhoGuardTime
Modification:	Online
Range:	0..120 (s)
MML default:	30
Description:	With this parameter you define the guard time after a BSC-controlled or an MSC-controlled TRHO, during which a handover back to the original cell is not allowed.
Related command(s):	EEM, EEO

2.75 UL priority 1 SSS (UP1)

GSM reference:	No ref.
Q3 name:	schedulingStepSize
Modification:	Online
Range:	1 - 12
MML default:	3
Description:	With this parameter you define the scheduling step size (SSS) for priority level 1 (highest) in the uplink direction.
Related command(s):	EEV, EEO
Note:	Optional (Gb Interface functionality)

2.76 UL priority 2 SSS (UP2)

GSM reference:	No ref.
Q3 name:	schedulingStepSize
Modification:	Online
Range:	1 - 12
MML default:	6
Description:	With this parameter you define the scheduling step size (SSS) for priority level 2 in the uplink direction.
Related command(s):	EEV, EEO
Note:	Optional (Gb Interface functionality)

2.77 UL priority 3 SSS (UP3)

GSM reference:	No ref.
Q3 name:	schedulingStepSize
Modification:	Online
Range:	Range: 1 - 12
MML default:	9
Description:	With this parameter you define the scheduling step size (SSS) for priority level 3 in the uplink direction.
Related command(s):	EEV (and in printouts of command EEO)
Note:	Optional (Gb Interface functionality)

2.78 UL priority 4 SSS (UP4)

GSM reference:	No ref.
Q3 name:	schedulingStepSize

Modification:	Online
Range:	Range: 1 - 12
MML default:	12
Description:	With this parameter you define the scheduling step size (SSS) for priority level 4 (lowest) in the uplink direction.
Related command(s):	EEV, EEO
Note:	Optional (Gb Interface functionality)

2.79 upper limit for FR TCH resources (HRU)

GSM reference:	No ref.
Q3 name:	btsLoadDepTCHRate
Modification:	Online
Range:	0..100 (%)
MML default:	0
Description:	The parameter controls the TCH channel rate determination on the BSC level according to the cell load in traffic channel allocation. With this parameter you define the upper limit for the percentage of free full rate resources. Full rate TCHs are allocated when the number of free full rate resources exceeds the value of the parameter.
Related command(s):	EEM, EEO
Note:	OPTIONAL (Half Rate)

2.80 upper limit of MS speed class 1 (MSSCF)

GSM reference:	No ref.
Q3 name:	msSpeedC11
Modification:	Online

Range:	0..255
MML default:	10
Description:	With this parameter you define the upper limit of MS speed for the first class in MS speed measurement. One parameter step equals the speed of 2 km/h.
Related command(s):	EEQ, EEO

2.81 upper limit of MS speed class 2 (MSSCS)

GSM reference:	No ref.
Q3 name:	msSpeedC12
Modification:	Online
Range:	0..255
MML default:	30
Description:	With this parameter you define the upper limit of MS speed for the second class in MS speed measurement. One parameter step equals the speed of 2 km/h.
Related command(s):	EEQ, EEO

2.82 variable DL step size (VDLS)

GSM reference:	GSM 04.08
Q3 name:	variableDLStepUse
Modification:	Online
Range:	Y/N
MML default:	N
Description:	With this parameter you define whether the variable step size is used in the power control algorithm when the downlink transmission power is decreased.
Related command(s):	EEQ, EEO

3 BCF

3.1 administrative state

GSM reference:	No ref.
Q3 name:	administrativeState
Modification:	Online/Offline
Range:	L (locked) U (unlocked)
MML default:	L
Description:	With this parameter you lock or unlock the object. If the BCF is in operational use, the administrative state must be "unlocked". If the state is "locked", the BCF cannot transfer traffic.
Related command(s):	EFO, EFS, EEI

3.2 autoconfigure (AC)

GSM reference:	No ref.
Q3 name:	autoConfig
Modification:	Read only
Range:	Y/N
MML default:	N
Description:	With this parameter you define whether the BCF is created to be autoconfigured.

Related command(s):	EFC
Note:	OPTIONAL (Abis autoconfiguration in use) The parameter only available for Nokia MetroSite, Nokia InSite and Nokia UltraSite.

3.3 BCCH TRX shutdown timer (BTIM)

GSM reference:	No ref.
Q3 name:	bcchTrxBatbuTimer
Modification:	Online
Range:	0..600 (min)
MML default:	0
Description:	With this parameter you define the time period after which BCCH TRXs are powered down when the BTS battery backup procedure is executing and no TRXs are left alive. The time begins after the *TRX shutdown timer* (NTIM) has expired.
Related command(s):	EFC, EFM, EFO
Note:	OPTIONAL (Intelligent Shutdown with Timer Control) The parameter cannot be defined for Nokia PrimeSite or Nokia InSite.

3.4 BCF identification

GSM reference:	No ref.
Q3 name:	bcf-ID
Modification:	Read only
Range:	1..248 The value range depends on the BSC hardware configuration and the corresponding options.
MML default:	-
Description:	With this parameter you identify the BCF with a decimal number.

Related command(s):	EFC, EFD, EFO, EFM, EFR, EFS, EFT, EFX, EEI

3.5 bit rate (BR)

GSM reference:	No ref.
Q3 name:	bitRate
Modification:	Read only
Range:	8, 16, 32 or 64 (kbps)
MML default:	-
Description:	With this parameter you define the bit rate of the D-channel O&M signalling link of the BCF.
Related command(s):	EFC
Note:	OPTIONAL (Abis autoconfiguration in use) The parameter is only available for Nokia MetroSite, Nokia InSite and Nokia UltraSite.

3.6 BTS battery backup procedure (BBU)

GSM reference:	No ref.
Q3 name:	batteryBackupProcedure
Modification:	Online
Range:	ALL (transmission equipment and all TRXs are left alive) BCCH (transmission equipment and only the BCCH TRX are left alive) NONE (only transmission equipment is left alive)
MML default:	ALL
Description:	With this parameter you define what type of BTS battery backup procedure is used. The procedure is executed when the mains power goes down at the BTS site and there is a battery backup unit.
Related command(s):	EFC, EFM, EFO

Note:	OPTIONAL (Intelligent Shutdown with Timer Control) The parameter cannot be defined for Nokia PrimeSite or Nokia InSite.

3.7 D-channel link set name (DNAME)

GSM reference:	No ref.
Q3 name:	userLabel
Modification:	Online
Range:	String of up to 5 characters ('A'..'Z','0'..'9'). The first character must be a letter.
MML default:	-
Description:	With this parameter you identify the D-channel link set name of the BTS site O&M link.
Related command(s):	EFC, EFO, EFM, EEI
Note:	The parameter cannot be defined for Nokia PrimeSite. Modifying the parameter causes a temporary break in O&M signalling.

3.8 D-channel link set number (DNBR)

GSM reference:	No ref.
Q3 name:	lapdLinkNumber
Modification:	Online
Range:	0..65535
MML default:	-
Description:	With this parameter you identify the D-channel link set number of the BTS site O&M link.
Related command(s):	EFC, EFM, EFO
Note:	The parameter cannot be defined for Nokia PrimeSite. Modifying the parameter causes a temporary break in O&M signalling.

3.9 external input number (INBR)

GSM reference:	No ref.
Q3 name:	externalAlarmDefinition: inputId
Modification:	Online
Range:	1 ... 10 (Nokia MetroSite) 1 ... 24 (Nokia UltraSite)
MML default:	-
Description:	With this parameter you define the external input number of the BCF.
Related command(s):	EFX, EFO
Note:	The parameter is only available for Nokia MetroSite and Nokia UltraSite.

3.10 external outputs (ON/OFF)

GSM reference:	No ref.
Q3 name:	bcfOutputs
Modification:	Online
Range:	6 outputs of type ON/OFF
MML default:	all outputs OFF
Description:	With this parameter you define the external outputs that are set into the ON or OFF state. The outputs are identified by a number.
Related command(s):	EFO, EFT
Note:	The parameter cannot be defined for Nokia PrimeSite or Nokia InSite. In the case of Nokia MetroSite, the number of external outputs is 4.

3.11 external synchronization source (ESS)

GSM reference:	No ref.
Q3 name:	syncSource
Modification:	When BCF is locked
Range:	0 ... BTS internal 2 ... PCM external 3 ... Other external
MML default:	2
Description:	With this parameter you define the synchronisation source of the master clock TRX for a synchronised Nokia PrimeSite BTS site. If the site is not synchronised but stand-alone, the parameter defines a synchronisation source for all the TRXs in the site.
Related command(s):	EFO, EFM
Note:	See also the *master clock trx* parameter.

3.12 identification of test equipment (TEST)

GSM reference:	No ref.
Q3 name:	testEquipment
Modification:	Online
Range:	NOT (no test equipment) RFTE (Radio Frequency Test Equipment) STM (Site Test Monitor unit)
MML default:	NOT
Description:	With this parameter you define the test equipment connected to the BCF.
Related command(s):	EFC, EFM, EFO
Note:	The parameter is available for Nokia 2nd generation base stations and Nokia Talk-family of base stations. Parameter value RFTE is only allowed for Nokia 2nd generation base stations.

3.13 master clock TRX (MCT)

GSM reference:	No ref.
Q3 name:	masterClock
Modification:	When BCF is locked
Range:	0..16
MML default:	0 (standalone)
Description:	With this parameter you define the master clock TRX for the Nokia PrimeSite. The value 0 means that the site is not synchronised (a standalone site).
Related command(s):	EFM, EFO
Note:	If there is more than one TRX in the site, the site must be synchronised (MCT≠0). See also the *external synchronization source* parameter.

3.14 polarity (POL)

GSM reference:	No ref.
Q3 name:	externalAlarmDefinition: polarity
Modification:	Online
Range:	OPEN, CLOSED
MML default:	OPEN
Description:	With this parameter you define the actual polarity of the external input connection.
Related command(s):	EFX, EFO
Note:	The parameter is only available for Nokia MetroSite and Nokia UltraSite.

3.15 route (ROU)

GSM reference:	No ref.
Q3 name:	externalAlarmDefinition: reporting Route
Modification:	Online
Range:	NOT ... not activated (not reported) ACT ... activated (reported to the BSC as a normal external alarm) TMS ... activated (reported as a transmission alarm to the Transmission Management System) MAINS ... activated (reported to the BSC as a Mains Breakdown alarm)
MML default:	NOT
Description:	With this parameter you activate the routing of the input alarm and choose where the alarm will be sent.
Related command(s):	EFX, EFO
Note:	The parameter is only available for Nokia MetroSite and Nokia UltraSite.

3.16 RX difference limit (RXDL)

GSM reference:	No ref.
Q3 name:	rxDifferenceLimit
Modification:	Online
Range:	5 ... 64 dB
MML default:	10
Description:	With this parameter you define the value limit for activating the RX alarm.
Related command(s):	EFC, EFM, EFO
Note:	The parameter is not available for Nokia MetroSite and Nokia InSite.

3.17 severity (SEV)

GSM reference:	No ref.
Q3 name:	externalAlarmDefinition: severity
Modification:	Online
Range:	AL3 (the highest level alarm) AL2 (the medium level alarm) AL1 (the lowest level alarm)
MML default:	AL1
Description:	With this parameter you define the severity of the input alarm.
Related command(s):	EFX, EFO
Note:	The parameter is only available for Nokia MetroSite and Nokia UltraSite.

3.18 site type (TYPE)

GSM reference:	No ref.
Q3 name:	bcfType
Modification:	When BCF is locked
Range:	B (Nokia 2nd generation) D (Nokia Talk-family) F (Nokia PrimeSite) C (Nokia MetroSite) I (Nokia InSite) P (Nokia UltraSite)
MML default:	-
Description:	With this parameter you identify the type of the BTS site.
Related command(s):	EFC, EFM, EFO, EEI
Note:	Modification is possible only between Nokia 2nd generation base stations and Nokia Talk-family of base stations, in both directions.

3.19 text ID (TID)

GSM reference:	No ref.
Q3 name:	externalAlarmDefinition: textId
Modification:	Online
Range:	1 .. 200 0 removes the text ID
MML default:	-
Description:	With this parameter you define the text ID number of a text string.
Related command(s):	EFE, EFP, EFX, EFO

3.20 text ID of the output 1...6 (OUT1-OUT6)

GSM reference:	No ref.
Q3 name:	ioTextId
Modification:	Online
Range:	1 .. 200 0 removes the text ID
MML default:	-
Description:	With this parameter you define the text ID for the external output.
Related command(s):	EFM, EFO
Note:	The parameter is only available for Nokia MetroSite and Nokia UltraSite. Nokia MetroSite has 4 external outputs and Nokia UltraSite has 6 external outputs.

3.21 TRX shutdown timer (NTIM)

GSM reference:	No ref.
Q3 name:	normTrxBatbuTimer
Modification:	Online
Range:	0..600 (min)
MML default:	0
Description:	With this parameter you define the time period after which TRXs are powered down when BTS battery backup procedure is executing and no TRXs or only BCCH-TRXs are left alive.
Related command(s):	EFC, EFM, EFO
Note:	OPTIONAL (Intelligent Shutdown with Timer Control) The parameter cannot be defined for Nokia PrimeSite or Nokia InSite.

4 External input and output texts (IO_TEXT)

4.1 text ID (TID)

GSM reference:	No ref.
Q3 name:	externalAlarmDefinition: textId
Modification:	Online
Range:	1 .. 200 0 removes the text ID
MML default:	-
Description:	With this parameter you define the text ID number of a text string.
Related command(s):	EFE, EFP, EFX, EFO

4.2 text string (TEXT)

GSM reference:	No ref.
Q3 name:	ioTextValue
Modification:	Online
Range:	0..80 characters
MML default:	-
Description:	With this parameter you define the text string associated with external outputs and inputs. Allowed characters are: A-Z, 0-9, < > _ / ( ) , . ! # $ @ % & * + ' = and space.

You can delete a text string by leaving the text field empty inside the quotation marks. The delete operation removes the text string connection from the BCF(s).

Related command(s): EFE, EFP

5 BTS

5.1 adjacency on other band (DBC)

GSM reference:	No ref.
Q3 name:	multiBandCell
Modification:	Online
Range:	Y/N
MML default:	Y (GSM 900 and GSM 1800) Y (GSM 800 and GSM 1900)
Description:	With this parameter you define whether adjacent cells with a BCCH allocated from a different frequency band than the serving cell BCCH are taken into account in handovers and in idle mode cell selection or reselection.
Related command(s):	EQF, EQO
Note:	OPTIONAL (Dual Band GSM/DCS)

5.2 administrative state

GSM reference:	No ref.
Q3 name:	administrativeState
Modification:	Online/Offline
Range:	L (locked) U (unlocked)
MML default:	L

Description: With this parameter you define the new administrative state of the BTS. When you change the administrative state of a segment, all administrative states of the BTSs in the segment must be changed.

Related command(s): EQO, EQS, EEI

5.3 allow IMSI attach detach (ATT)

GSM reference: I-ETS 300 022-1 (GSM 04.08)

I-ETS 300 022-1 (GSM 04.08)

Q3 name: allowIMSIAttachDetach

Modification: Online

Range: Y/N

MML default: Y

Description: With this parameter you define whether IMSI attach/detach is used in the cell.

Related command(s): EQJ, EQO

Note: If “Implicit IMSI detach” is on, the value of the parameter must be “Y”. The value of the parameter must be the same in every cell.

5.4 AMR FR codec mode set (FRC)

GSM reference: No ref.

Q3 name: amrConfigurationFr: codecModeSet

Modification: Online

Range: 0, 1, 2, 4, 8, 16, 32, 64, 128

You can give 0 or 1–4 values at the same time by using the wild card character &.

MML default: 12.2 7.40 5.9 4.75 kbit/s

Description: With this parameter you define the codec mode set for a full rate channel. If the parameter is defined as disabled, then the whole

codec mode set is disabled.

If the parameter is defined as disabled, then other AMR FR set related parameters (thresholds, hystereses, ICMI and start mode) are set as 0.

Related command(s): EQY, EQO

Note: Optional (AMR Codec)

5.5 AMR FR hysteresis 1 (FRH1)

GSM reference: No ref.

Q3 name: amrConfigurationFr: hysteresis1

Modification: Online

Range: 0 to 15 (0 to 7.5 dB)

MML default: 2 (1 dB)

Description: With this parameter, together with *AMR FR threshold 1,* you define the threshold for switching from codec mode 1 (lowest bit-rate) to codec mode 2 (second lowest bit-rate). Unused hysteresis is set as 0.

If the *AMR FR codec mode set* parameter is defined as disabled, then this parameter is set as 0. The thresholds and the relating hystereses must be in consistent order, that is, *AMR FR threshold 1* and *AMR FR hysteresis 1* must be equal to or smaller than *AMR FR threshold 2* and *AMR FR hysteresis 2* and *AMR FR threshold 2* and *AMR FR hysteresis 2* must be equal to or smaller than *AMR FR threshold 3* and *AMR FR hysteresis 3* .

Related command(s): EQY, EQO

Note: Optional (AMR Codec)

5.6 AMR FR hysteresis 2 (FRH2)

GSM reference: No ref.

Q3 name: amrConfigurationFr: hysteresis2

Modification: Online

Range: 0 to 15 (0 to 7.5 dB)

MML default: 2 (1 dB)

Description: With this parameter, together with *AMR FR threshold 1,* you define the threshold for switching from codec mode 2 (lowest bit-rate) to codec mode 3 (second lowest bit-rate). Unused hysteresis is set as 0.

If the *AMR FR codec mode set* parameter is defined as disabled, then this parameter is set as 0. The thresholds and relating hystereses must be in consistent order, that is, *AMR FR threshold 1* and *AMR FR hysteresis 1* must be equal to or smaller than *AMR FR threshold 2* and *AMR FR hysteresis 2* and *AMR FR threshold 2* and *AMR FR hysteresis 2* must be equal to or smaller than *AMR FR threshold 3* and *AMR FR hysteresis 3* .

Related command(s): EQY, EQO

Note: Optional (AMR Codec)

5.7 AMR FR hysteresis 3 (FRH3)

GSM reference: No ref.

Q3 name: amrConfigurationFr: hysteresis3

Modification: Online

Range: 0 to 15 (0 to 7.5 dB)

MML default: 2 (1 dB)

Description: With this parameter, together with *the AMR FR threshold 1,* you define the threshold for switching from codec mode 3 (lowest bit-rate) to codec mode 4 (second lowest bit-rate). Unused hysteresis is set as 0.

If the *AMR FR codec mode set* parameter is defined as disabled, then this parameter is set as 0. The thresholds and relating hystereses must be in consistent order, that is, *AMR FR threshold 1* and *AMR FR hysteresis 1* must be equal to or smaller than *AMR FR threshold 2* and *AMR FR hysteresis 2* and *AMR FR threshold* and *AMR FR hysteresis 2* must be equal to or smaller than *AMR FR threshold 3* and *AMR FR hysteresis 3* .

Related command(s): EQY, EQO

Note: Optional (AMR Codec)

5.8 AMR FR initial codec mode indicator (ICMI) (FRI)

GSM reference:	No ref.
Q3 name:	amrConfigurationFr: initCodecMode
Modification:	Online
Range:	0: Initial codec mode is defined by the implict rule provided in GSM 05.09 1: Initial codec mode is defined by the Start Mode field.
MML default:	0
Description:	With this parameter you define whether the initial codec mode used by the mobile station is defined explicitly in the AMR codec mode set or is it implicitly derived by the mobile station from the amount of codec modes in the AMR codec mode set. If the *AMR FR codec mode set* parameter is defined as disabled, then this parameter is set as 0. If the parameter is defined as 0, then the *AMR FR start mode* parameter is set as 00.
Related command(s):	EQY, EQO
Note:	Optional (AMR Codec)

5.9 AMR FR start mode (FRS)

GSM reference:	No ref.
Q3 name:	amrConfigurationFr: startMode
Modification:	Online
Range:	00: Codec mode 1 01: Codec mode 2 10: Codec mode 3 11: Codec mode 4
MML default:	00
Description:	With this parameter you define explicitly the initial codec mode used by the mobile station.
Related command(s):	EQY, EQO

Note: Optional (AMR Codec)

5.10 AMR FR threshold 1 (FRT1)

GSM reference: No ref.

Q3 name: amrConfigurationFr: threshold1

Modification: Online

Range: 0 to 63 (0 to 31.5 dB)

MML default: 8 (4 dB)

Description: With this parameter you define the threshold for switching from codec mode 2 (second lowest bit-rate) to codec mode 1 (lowest bit-rate). Unused threshold is set as 0.

If the *AMR FR codec mode set* parameter is defined as disabled, then this parameter is set as 0. The thresholds must be in consistent order, that is, *AMR FR threshold 1* must be equal to or smaller than*AMR FR threshold 2* and *AMR FR threshold 2* must be equal to or smaller than *AMR FR threshold 3* .

Related command(s): EQY, EQO

Note: Optional (AMR Codec)

5.11 AMR FR threshold 2 (FRT2)

GSM reference: No ref.

Q3 name: amrConfigurationFr: threshold2

Modification: Online

Range: 0 to 63 (0 to 31.5 dB)

MML default: 14 (7 dB)

Description: With this parameter you define the threshold for switching from codec mode 3 (third lowest bit-rate) to codec mode 2 (second lowest bit-rate). Unused threshold is set as 0.

If the *AMR FR codec mode set* parameter is defined as disabled, then this parameter is set as 0. The thresholds must be in

consistent order, that is, *AMR FR threshold 1* must be equal to or smaller than *AMR FR threshold 2* and *AMR FR threshold 2* must be equal to or smaller than *AMR FR threshold 3* .

Related command(s): EQY, EQO

Note: Optional (AMR Codec)

5.12 AMR FR threshold 3 (FRT3)

GSM reference: No ref.

Q3 name: amrConfigurationFr: threshold3

Modification: Online

Range: 0 to 63 (0 to 31.5 dB)

MML default: 22 (11 dB)

Description: With this parameter you define the threshold for switching from codec mode 4 (third lowest bit-rate) to codec mode 3 (second lowest bit-rate). Unused threshold is set as 0.

If the *AMR FR codec mode set* parameter is defined as disabled, then this parameter is set as 0. The thresholds must be in consistent order, that is, *AMR FR threshold 1* must be equal to or smaller than*AMR FR threshold 2* and *AMR FR threshold 2* must be equal to or smaller than *AMR FR threshold 3* .

Related command(s): EQY, EQO

Note: Optional (AMR Codec)

5.13 AMR HR codec mode set (HRC)

GSM reference: No ref.

Q3 name: amrConfigurationHr: codecModeSet

Modification: Online

Range: 0, 1, 2, 4, 8, 16

You can give 0 or 1–4 values at the same time by using the wild card character &.

MML default:	7.40 5.90 4.75 kbit/s
Description:	With this parameter you define the codec mode set for a full rate channel. If the parameter is defined as disabled, then the whole codec mode set is disabled. If the parameter is defined as disabled, then other AMR HR set related parameters (thresholds, hystereses, ICMI and start mode) are set as 0.
Related command(s):	EQY, EQO
Note:	Optional (AMR Codec)

5.14 AMR HR hysteresis 1 (HRH1)

GSM reference:	No ref.
Q3 name:	amrConfigurationHr: hysteresis1
Modification:	Online
Range:	0 to 15 (0 to 7.5 dB)
MML default:	2 (1 dB)
Description:	With this parameter you define together with the *AMR HR threshold 1* the threshold for switching from codec mode 1 (lowest bit-rate) to codec mode 2 (second lowest bit-rate). Unused hysteresis is set as 0. If the *AMR HR codec mode set* parameter is defined as disabled, then this parameter is set as 0. The thresholds and relating hystereses must be in consistent order, that is, *AMR HR threshold 1* and *AMR HR hysteresis 1* must be equal to or smaller than *AMR HR threshold 2* and *AMR HR hysteresis 2* and *AMR HR threshold 2* and *AMR HR hysteresis 2* must be equal to or smaller than *AMR HR threshold 3* and *AMR HR hysteresis 3* .
Related command(s):	EQY, EQO
Note:	Optional (AMR Codec)

5.15 AMR HR hysteresis 2 (HRH2)

GSM reference:	No ref.
Q3 name:	amrConfigurationHr: hysteresis2
Modification:	Online
Range:	0 to15 (0 to 7.5 dB)
MML default:	2 (1 dB)
Description:	With this parameter, together with *the AMR HR threshold 2,* you define the threshold for switching from codec mode 2 (lowest bit-rate) to codec mode 3 (second lowest bit-rate). Unused hysteresis is set as 0. If the *AMR HR codec mode set* parameter is defined as disabled, then this parameter is set as 0. The thresholds and relating hystereses must be in consistent order, that is, *AMR HR threshold 1* and *AMR HR hysteresis 1* must be equal to or smaller than *AMR HR threshold 2* and *AMR HR hysteresis 2* and *AMR HR threshold 2* and *AMR HR hysteresis 2* must be equal to or smaller than *AMR HR threshold 3* and *AMR HR hysteresis 3* .
Related command(s):	EQY, EQO
Note:	Optional (AMR Codec)

5.16 AMR HR hysteresis 3 (HRH3)

GSM reference:	No ref.
Q3 name:	amrConfigurationHr: hysteresis3
Modification:	Online
Range:	0 to 15 (0 to 7.5 dB)
MML default:	0 (0 dB)
Description:	With this parameter, together with *the AMR HR threshold 3,* you define the threshold for switching from codec mode 3 (lowest bit-rate) to codec mode 4 (second lowest bit-rate). Unused hysteresis is set as 0. If the *AMR HR codec mode set* parameter is defined as disabled, then this parameter is set as 0. The thresholds and relating hystereses must be in consistent order, that is, *AMR HR threshold 1* and *AMR HR hysteresis 1* must be equal to or smaller than *AMR HR threshold 2* and *AMR HR hysteresis 2* and *AMR HR*

	threshold 2 and *AMR HR hysteresis 2* must be equal to or smaller than *AMR HR threshold 3* and *AMR HR hysteresis 3* .
Related command(s):	EQY, EQO
Note:	Optional (AMR Codec)

5.17 AMR HR initial codec mode indicator (ICMI) (HRI)

GSM reference:	No ref.
Q3 name:	amrConfigurationHr: initCodecMode
Modification:	Online
Range:	0: Initial codec mode is defined by the implict rule provided in GSM 05.09 1: Initial codec mode is defined by the Start Mode field.
MML default:	0
Description:	With this parameter you define whether the initial codec mode used by the mobile station is defined explicitly in the AMR codec mode set or is it implicitly derived by the mobile station from the amount of codec modes in the AMR codec mode set.. If the *AMR FR codec mode set* parameter is defined as disabled, then this parameter is set as 0. If the parameter is defined as 0, then the *AMR HR start mode* parameter is set as 00.
Related command(s):	EQY, EQO
Note:	Optional (AMR Codec)

5.18 AMR HR start mode (HRS)

GSM reference:	No ref.
Q3 name:	amrConfigurationHr: startMode
Modification:	Online
Range:	00: Codec mode 1 01: Codec mode 2

10: Codec mode 3

11: Codec mode 4

MML default: 00

Description: With this parameter you explicitly define the initial codec mode used by the mobile station.

If you give this parameter you cannot give the full rate parametrs (codec mode set, ICMI, thresholds, hystereses and start mode) .

If the *AMR HR codec mode set* parameter is defined as disabled, then this parameter is set as 00. AMR HR start mode can be set to be smaller than or equal to the amount of codecs in the AMR HR codec mode set. For example, the AMR HR codec mode set contains 3 codec modes and therefore the actual range of AMR HR start mode is from 1 to 3.

Related command(s): EQY, EQO

Note: Optional (AMR Codec)

5.19 AMR HR threshold 1 (HRT1)

GSM reference: No ref.

Q3 name: amrConfigurationHr: threshold1

Modification: Online

Range: 0 to 63 (0 to 31.5 dB)

MML default: 22 (11 dB)

Description: With this parameter you define the threshold for switching from codec mode 2 (second lowest bit-rate) to codec mode 1 (lowest bit-rate). Unused threshold is set as 0.

If the *AMR HR codec mode set* parameter is defined as disabled, then this parameter is set as 0. The thresholds must be in consistent order, that is, *AMR HR threshold 1* must be equal to or smaller than*AMR HR threshold 2* and *AMR HR threshold 2* must be equal to or smaller than *AMR HR threshold 3* .

Related command(s): EQY, EQO

Note: Optional (AMR Codec)

5.20 AMR HR threshold 2 (HRT2)

GSM reference:	No ref.
Q3 name:	amrConfigurationHr: threshold2
Modification:	Online
Range:	0 to 63 (0 to 31.5 dB)
MML default:	28 (14 dB)
Description:	With this parameter you define the threshold for switching from codec mode 2 (second lowest bit-rate) to codec mode 1 (lowest bit-rate). Unused threshold is set as 0. If the *AMR HR codec mode set* parameter is defined as disabled, then this parameter is set as 0. The thresholds must be in consistent order, that is, *AMR HR threshold 1* must be equal to or smaller than*AMR HR threshold 2* and *AMR HR threshold 2* must be equal to or smaller than *AMR HR threshold 3* .
Related command(s):	EQY, EQO
Note:	Optional (AMR Codec)

5.21 AMR HR threshold 3 (HRT3)

GSM reference:	No ref.
Q3 name:	amrConfigurationHr: threshold3
Modification:	Online
Range:	0 to 63 (0 to 31.5 dB)
MML default:	0 (0 dB)
Description:	With this parameter you define the threshold for switching from codec mode 2 (second lowest bit-rate) to codec mode 1 (lowest bit-rate). Unused threshold is set as 0. If the *AMR HR codec mode set* parameter is defined as disabled, then this parameter is set as 0. The thresholds must be in consistent order, that is, *AMR HR threshold 1* must be equal to or smaller than*AMR HR threshold 2* and *AMR HR threshold 2* must be equal to or smaller than *AMR HR threshold 3* .
Related command(s):	EQY, EQO

Note:	Optional (AMR Codec)

5.22 averaging period (AP)

GSM reference:	I-ETS 300 034-1 (GSM 05.08)
Q3 name:	interferenceAveragingProcess
Modification:	Online
Range:	1..32
MML default:	6
Description:	With this parameter you define the number of SACCH multiframes over which the averaging of the interference level in the unallocated time slots is performed.
Related command(s):	EQK, EQO

5.23 background BTS colour code (BBCC)

GSM reference:	I-ETS 300 022-1 (GSM 04.08) I-ETS 300 030 (GSM 05.02)
Q3 name:	backgroundDBAttributes: bsIdentityCode
Modification:	Online
Range:	0..7 ND (not defined)
MML default:	-
Description:	With this parameter you define the number of the BTS colour code used as background data. In background data activation (EE command group), background data is swapped with active data. Parameter value ND removes the old value of the background parameter.
Related command(s):	EQE, EQO
Note:	The BSIC parameter is composed of the parameters NCC and BCC. Note that TRX TSC must be equal to BTS BCC.

5.24 background BTS hopping mode (BHOP)

GSM reference:	I-ETS 300 022-1 (GSM 04.08)
Q3 name:	backgroundDBAttributes: hoppingMode
Modification:	Online
Range:	BB (baseband hopping is used) RF (radio frequency hopping is used) N (hopping is not used) ND (not defined)
MML default:	-
Description:	With this parameter you define the BTS's frequency hopping mode used as background data. Parameter value ND removes the old value of the background parameter.
Related command(s):	EQE, EQO, EFO

5.25 background hopping sequence number 1 (BHSN1)

GSM reference:	I-ETS 300 022-1 (GSM 04.08) I-ETS 300 030 (GSM 05.02)
Q3 name:	backgroundDBAttributes: hoppingSequenceNumber
Modification:	Online
Range:	0 (cyclic hopping) 1...63 (random hopping) ND (not defined)
MML default:	-
Description:	With this parameter you define the hopping sequence number 1 used as background data. Parameter value ND removes the old value of the background parameter.
Related command(s):	EQE, EQO, EFO

5.26 background hopping sequence number 2 (BHSN2)

GSM reference:	I-ETS 300 022-1 (GSM 04.08) I-ETS 300 030 (GSM 05.02)
Q3 name:	backgroundDBAttributes: hoppingSequenceNumber
Modification:	Online
Range:	0 (cyclic hopping) 1...63 (random hopping) ND (not defined)
MML default:	-
Description:	With this parameter you define the hopping sequence number 2 used as background data. Parameter value ND removes the old value of the background parameter.
Related command(s):	EQE, EQO, EFO

5.27 background MAIO offset (BMO)

GSM reference:	No ref.
Q3 name:	backgroundDBAttributes: maioOffset
Modification:	Online
Range:	0..62 ND (not defined)
MML default:	-
Description:	With this parameter you set the lowest MAIO value per sector used as background data. Parameter value ND removes the old value of the background parameter.
Related command(s):	EQA, EQO, EFO

5.28 background MAIO step (BMS)

GSM reference:	No ref.
Q3 name:	backgroundDBAttributes: maioStep
Modification:	Online
Range:	1..62 ND (not defined)
MML default:	-
Description:	With this parameter you set the MAIO step used as background data. Parameter value ND removes the old value of the background parameter.
Related command(s):	EQA, EQO, EFO
Note:	OPTIONAL (Flexible MAIO Management)

5.29 background mobile allocation frequency list (BMAL)

GSM reference:	No ref.
Q3 name:	backgroundDBAttributes: usedMobileAllocation
Modification:	Online
Range:	0..128 The value 0 detaches the BTS from any mobile allocation frequency list. ND (not defined)
MML default:	-
Description:	With this parameter you define the mobile allocation frequency list used as background data. Parameter value ND removes the old value of the background parameter.
Related command(s):	EQA, EQO, EFO

5.30 background network colour code (BNCC)

GSM reference:	I-ETS 300 022-1 (GSM 04.08) I-ETS 300 030 (GSM 05.02)
Q3 name:	backgroundDBAttributes: bsIdentityCode
Modification:	Online
Range:	0..7 ND (not defined)
MML default:	-
Description:	With this parameter you define the number of the network colour code used as background data. In background data activation (EE command group), background data is swapped with active data. Parameter value ND removes the old value of the background parameter.
Related command(s):	EQE, EQO
Note:	The BSIC parameter is composed of the NCC and BCC parameters.

5.31 background underlay BTS hopping mode (BUHOP)

GSM reference:	No ref.
Q3 name:	backgroundDBAttributes: underlayHoppingMode
Modification:	Online
Range:	BB (baseband hopping is used) RF (radio frequency hopping is used) N (hopping is not used) ND (not defined)
MML default:	-
Description:	With this parameter you define the underlay layer's BTS hopping mode used as background data. Parameter value ND removes the old value of the background parameter.
Related command(s):	EQE, EQO, EFO

Note:	OPTIONAL ((Intelligent Underlay Overlay OR Intelligent Coverage Enhancement) AND Intelligent Frequency Hopping)

5.32 background underlay hopping sequence number (BUHSN)

GSM reference:	No ref.
Q3 name:	backgroundDBAttributes: hoppingSequenceNumber
Modification:	Online
Range:	0 (cyclic hopping) 1...63 (random hopping) ND (not defined)
MML default:	-
Description:	With this parameter you define the underlay layer's hopping sequence number used as background data. Parameter value ND removes the old value of the background parameter.
Related command(s):	EQC, EQE, EQO, EFO
Note:	OPTIONAL (Intelligent Underlay Overlay AND Intelligent Frequency Hopping)

5.33 background underlay MAIO offset (BUMO)

GSM reference:	No ref.
Q3 name:	backgroundDBAttributes: underlayMaioOffset
Modification:	Online
Range:	0..62 ND (not defined)
MML default:	-
Description:	With this parameter you set the underlay layer's lowest MAIO value per sector used as background data. Parameter value ND removes the old value of the background parameter.

Related command(s): EQA, EQO, EFO

Note: OPTIONAL ((Intelligent Underlay Overlay OR Intelligent Coverage Enhancement) AND Intelligent Frequency Hopping)

5.34 background underlay MAIO step (BUMS)

GSM reference: No ref.

Q3 name: backgroundDBAttributes: underlayMaioStep

Modification: Online

Range: 1..62

ND (not defined)

MML default: -

Description: With this parameter you set the underlay MAIO step used as background data. Parameter value ND removes the old value of the background parameter.

Related command(s): EQA, EQO, EFO

Note: OPTIONAL ((Intelligent Underlay Overlay OR Intelligent Coverage Enhancement) AND Intelligent Frequency Hopping AND Flexible MAIO management)

5.35 background underlay mobile allocation frequency list (BUMAL)

GSM reference: No ref.

Q3 name: backgroundDBAttributes: underlayMA

Modification: Online

Range: 0..128 (the value 0 detaches the BTS from any mobile allocation frequency list)

ND (not defined)

MML default: -

Description: With this parameter you define the mobile allocation frequency

	list to which the BTS's underlay layer is attached and which is used as background data. Parameter value ND removes the old value of the background parameter.
Related command(s):	EQA, EQO, EFO
Note:	OPTIONAL ((Intelligent Underlay Overlay OR Intelligent Coverage Enhancement) AND Intelligent Frequency Hopping)

5.36 BCCH allocation usage for active MS (ACT)

GSM reference:	I-ETS 300 034-1 (GSM 05.08)
Q3 name:	measurementBCCHAllocation
Modification:	Online
Range:	ADJ (BCCH frequency list is taken from the adjacent cells defined for the BTS) IDLE (active MS's use the same BCCH frequency list as idle MSs. The same BCCH frequency list is defined by BTS parameter IDLE)
MML default:	ADJ
Description:	With this parameter you define the BCCH frequency list used by active MSs. This list is used for handovers and is sent on the SACCH.
Related command(s):	EQB, EQO
Note:	OPTIONAL (Double BA-lists)

5.37 boundary 1-4 (BO1-BO4)

GSM reference:	I-ETS 300 034-1 (GSM 05.08)
Q3 name:	interferenceAveragingProcess
Modification:	Online
Range:	boundary 0: -110 (dBm) (fixed) boundary 1: -110..-47 (dBm) boundary 2: -110..-47 (dBm)

boundary 3: -110..-47 (dBm)

boundary 4: -110..-47 (dBm)

boundary 5: -47 (dBm) (fixed)

MML default:

BO0: -110

BO1: -105

BO2: -100

BO3: -95

BO4: -90

BO5: -47

Description:

With this parameter you define the boundary limits of four interference bands for the unallocated time slots. The MML program sets boundary 0 and 5 values automatically.

Related command(s):

EQK, EQO

5.38 BTS colour code (BCC)

GSM reference:

I-ETS 300 022-1 (GSM 04.08)

I-ETS 300 030 (GSM 05.02)

Q3 name:

bsIdentityCode

Modification:

When BTS is locked

Range:

0..7

MML default:

-

Description:

With this parameter you identify the BTS colour code number.

Related command(s):

EQC, EQE, EQO

Note:

The BSIC parameter is composed of the parameters NCC and BCC.

If you modify this parameter, the BCC parameter in adjacent cells is automatically modified.

5.39 BTS identification

GSM reference:	No ref.
Q3 name:	bts-ID
Modification:	Read only
Range:	1..248 The value range depends on the BSC hardware configuration and the corresponding options.
MML default:	-
Description:	With this parameter you identify the BTS. The identification number must be unique within a BSC.
Related command(s):	EQC, EQD, EQO

5.40 BTS hopping mode (HOP)

GSM reference:	I-ETS 300 022-1 (GSM 04.08)
Q3 name:	btsIsHopping
Modification:	When BTS is locked
Range:	BB (baseband hopping is used) RF (radio frequency hopping is used) N (hopping is not used)
MML default:	N
Description:	With this parameter you define the frequency hopping mode of the BTS.
Related command(s):	EQC, EQE, EQO, EFO, EEI
Note:	BTS site type Nokia 2nd generation base stations does not support RF hopping. In the case of Nokia Talk-family, RF and BB hopping cannot be active simultaneously at the same site (BCF). If the BTS site type is Nokia InSite, check that it supports frequency hopping. If Nokia PrimeSite has a BTS software package of DF6.0 or newer, it does not support frequency hopping.

5.41 BTS load in SEG (LSEG)

GSM reference:	No ref.
Q3 name:	btsLoadInSeg
Modification:	Online
Range:	0..100 (%)
MML default:	70
Description:	With this parameter you determine the load limit for a BTS. Is used in controlling the load distribution between BTSs in a segment.
Related command(s):	EQM, EQO
Note:	Optional (Common BCCH Control or Multi BCF Control)

5.42 BTS load threshold (BLT)

GSM reference:	No ref.
Q3 name:	btsLoadThreshold
Modification:	Online
Range:	0..100 (%)
MML default:	70
Description:	With this parameter you define which proportion of reserved or unavailable channels in all channels is acceptable. BTS load threshold is one of the parameters used for the handover control process. If the threshold is exceeded, the BTS is considered to be overloaded, and handovers to that BTS will be avoided.
Related command(s):	EQM, EQO

5.43 BTS measure average (BMA)

GSM reference:	I-ETS 300 034-1 (GSM 05.08)
Q3 name:	btsMeasAver
Modification:	Online
Range:	1..4
MML default:	1
Description:	With this parameter you define how many SACCH multiframes are used in measurement averaging in the BTS. The BTS calculates averages of the measurements performed by the BTS and the MS. The BTS is able to calculate the average on 2, 3, or 4 SACCH multiframes. Value 1 denies averaging.
Related command(s):	EQM, EQO

5.44 BTS name (NAME)

GSM reference:	No ref.
Q3 name:	btsName
Modification:	Online
Range:	String of up to 15 characters ('A'..'Z', '0'..'9')
MML default:	-
Description:	With this parameter you define the name of the BTS.
Related command(s):	EQC, EQE, EQO
Note:	The *BTS name* (NAME) parameter must be unique within a BSC.

5.45 C31 hysteresis (CHYS)

GSM reference:	GSM 04.60
Q3 name:	c31Hysteresis
Modification:	Online

Range:	Y/N
MML default:	N
Description:	With this parameter you indicate the GPRS cell reselection criterion.
Related command(s):	EQG, EQO
Note:	OPTIONAL (Gb Interface functionality)

5.46 C32 qual (QUAL)

GSM reference:	GSM 04.60
Q3 name:	c32Qual
Modification:	Online
Range:	Y/N
MML default:	N
Description:	With this parameter you indicate an exception to the rule for *GPRS cell reselect offset.*
Related command(s):	EQG, EQO
Note:	OPTIONAL (Gb Interface functionality)

5.47 calculation of minimum number of slots (CALC)

GSM reference:	GSM 04.60
Q3 name:	calcMinNumberslots
Modification:	Online
Range:	12, 15, 20, 30, 41, 55, 76, 109, 163, and 217
MML default:	30
Description:	With this parameter you calculate the minimum number of slots between two successive Packet Channel Request messages.

Related command(s):	EQM
Note:	OPTIONAL (Gb Interface functionality)

5.48 call re-establishment allowed (RE)

GSM reference:	I-ETS 300 022-1 (GSM 04.08) 10.5.2.17
Q3 name:	callReestablishmentAllowed
Modification:	Online
Range:	Y/N
MML default:	N
Description:	With this parameter you define whether call re-establishment is allowed.
Related command(s):	EQF, EQO

5.49 cell bar qualify (QUA)

GSM reference:	ETS 300 574 (GSM 05.02)
Q3 name:	cellBarQualify
Modification:	Online
Range:	Y (cell barring can be overridden) N (cell barring cannot be overridden)
MML default:	N
Description:	With this parameter you define whether cell barring can be overridden.
Related command(s):	EQM, EQO
Note:	OPTIONAL (C2 Cell reselection parameter)

5.50 cell barred (BAR)

GSM reference:	I-ETS 300 022-1 (GSM 04.08)
Q3 name:	cellBarred
Modification:	Online
Range:	Y/N
MML default:	N
Description:	With this parameter you define whether MSs are allowed to access the cell.
Related command(s):	EQF, EQO

5.51 cell identity (CI)

GSM reference:	I-ETS 300 022-1 (GSM 04.08)
Q3 name:	cell-ID
Modification:	When BTS is locked
Range:	0..65535
MML default:	-
Description:	With this parameter you identify the cells within a location area.
Related command(s):	EQC, EQE, EQO, EEI
Note:	Check adjacent cell parameters.

5.52 cell load for channel search (CLC)

GSM reference:	No ref.
Q3 name:	cellLoadForChannelSearch
Modification:	Online

Range:	0 ... 100 (%)
MML default:	0
Description:	With this parameter you give a load limit for traffic channels in the BTS. If the TCH load in a cell is below the limit traffic, channels for speech and single slot data calls are allocated using rotation between TRXs in a cell and between TSLs of a TRX. If the load limit has been reached or exceeded, the TCH allocation is performed trying to save larger spaces of idle FR resources for possible multislot HSCSD calls by preferring small gaps of free resources and ends of a TRX for single slot calls.
Related command(s):	EQM, EQO
Note:	If the parameter has its default value 0 in a BTS, the channel allocation in the BTS is performed according to the value of the BSC level parameter *load rate for channel search.*

5.53 cell reselect hysteresis (HYS)

GSM reference:	I-ETS 300 022-1 (GSM 04.08) I-ETS 300 034-1 (GSM 05.08)
Q3 name:	cellReselectHysteresis
Modification:	Online
Range:	0..14 (dB), with a step size of 2 dB
MML default:	4
Description:	With this parameter you define the received RF power level hysteresis for required cell reselection.
Related command(s):	EQG, EQO

5.54 cell reselect offset (REO)

GSM reference:	ETS 300 574 (GSM 05.02)
Q3 name:	cellReselectOffset
Modification:	Online

Range:	0..126 (dB) with a step size of 2 dB
MML default:	0
Description:	With this parameter you define the offset of the C2 reselection criterion for a cell.
Related command(s):	EQM, EQO
Note:	OPTIONAL (C2 Cell Reselection parameter)

5.55 cell reselection parameter index (PI)

GSM reference:	ETS 300 574 (GSM 05.02)
Q3 name:	cellReselectParamInd
Modification:	Online
Range:	Y/N
MML default:	N
Description:	With this parameter you define whether C2 reselection parameters are broadcast to mobile stations. The C2 cell reselection allows you to define other criteria for cell reselection in addition to power level.
Related command(s):	EQM, EQO
Note:	OPTIONAL (C2 Cell Reselection parameter)

5.56 cell type (CTY)

GSM reference:	No ref.
Q3 name:	cellType
Modification:	Online
Range:	GSM / MCN
MML default:	GSM
Description:	Type of cell.

Related command(s):	EQF, EQO
Note:	Check adjacent cell parameters. OPTIONAL (Intelligent Directed Retry (IDR)).

5.57 C/N threshold (CNT)

GSM reference:	No ref.
Q3 name:	cnThreshold
Modification:	Online
Range:	0..63 (dB)
MML default:	0 (disabled)
Description:	With this parameter you define the minimum acceptable C/N (carrier/noise) ratio when selecting a time slot to be allocated for a call or handover.
Related command(s):	EQK, EQO

5.58 coding scheme hop (CODH)

GSM reference:	No ref.
Q3 name:	pcuCsHopping
Modification:	Online
Range:	0: Link Adaptation used 1: CS-1 used 2: CS-2 used
MML default:	0
Description:	With this parameter you indicate the selection of Coding Scheme in RLC (Radio Link Control) Acknowledged mode in case frequency hopping is used.
Related command(s):	EQV, EQO
Note:	OPTIONAL (Gb Interface functionality)

5.59 coding scheme no hop (COD)

GSM reference:	No ref.
Q3 name:	pcuCsNonHopping
Modification:	Online
Range:	0: Link Adaptation used 1: CS-1 used 2: CS-2 used
MML default:	2
Description:	With this parameter you indicate the selection of Coding Scheme in RLC (Radio Link Control) Acknowledged mode in case frequency hopping is not used.
Related command(s):	EQV, EQO
Note:	OPTIONAL (Gb Interface functionality)

5.60 dedicated GPRS capacity (CDED)

GSM reference:	No ref.
Q3 name:	dedicatedGPRScapacity
Modification:	When BTS is locked or the GPRS is disabled
Range:	0 ... 100 (%)
MML default:	0
Description:	With this parameter you determine the amount of PSW-only channels in a cell. The value of the *dedicated GPRS capacity* parameter must be smaller than or equal to the value of the *default GPRS capacity* parameter.
Related command(s):	EQV, EQO
Note:	OPTIONAL (Gb Interface functionality)

5.61 default GPRS capacity (CDEF)

GSM reference:	No ref.
Q3 name:	defaultGPRScapacity
Modification:	When BTS is locked or the GPRS is disabled
Range:	1 ... 100 (%)
MML default:	1
Description:	With this parameter you determine the amount of PSW-only channels in a cell. The value of the *default GPRS capacity* parameter must be higher than or equal to the value of the *dedicated GPRS capacity* parameter.
Related command(s):	EQV, EQO
Note:	OPTIONAL (Gb Interface functionality)

5.62 direct GPRS access threshold (DIRE)

GSM reference:	No ref.
Q3 name:	directGPRSaccessBts
Modification:	Online
Range:	-40 to 40 dBm
MML default:	0
Description:	With this parameter you define which BTSs in the SEG may be used for GPRS or EGPRS without signal level measurements. This parameter defines the signal level compared to non BCCH layer offset. When the value of this parameter is higher than the value of the parameter non BCCH layer offset the direct GPRS access to non BCCH layer BTS is applied. This is used in initial channel allocation and reallocation.
Related command(s):	EQG, EQO
Note:	OPTIONAL (Gb Interface functionality)

5.63 directed retry method (DRM)

GSM reference:	No ref.
Q3 name:	drMethod
Modification:	Online
Range:	0 (basic directed retry method) 1 (threshold evaluation method)
MML default:	0
Description:	With this parameter you define which method is used in directed retry procedure when candidate cells are evaluated. This parameter is also used to switch off directed retry method improvements.
Related command(s):	EQF, EQO
Note:	OPTIONAL (Directed Retry OR Intelligent Directed Retry (IDR))

5.64 directed retry used (DR)

GSM reference:	ETS 300 590 (GSM 08.08)
Q3 name:	drInUse
Modification:	Online
Range:	Y/N
MML default:	N
Description:	With this parameter you define if the directed retry feature is in use in the cell.
Related command(s):	EQF, EQO
Note:	OPTIONAL (Directed Retry)

5.65 DL adaption probability threshold (DLA)

GSM reference:	No ref.
Q3 name:	-
Modification:	Online
Range:	0 to 50 %
MML default:	20 %
Description:	With this parameter you define the allowed probability (%) for the system to make a wrong decision in downlink adaptation.
Related command(s):	EQV, EQO
Note:	OPTIONAL (Gb Interface functionality)

5.66 DL BLER crosspoint for CS selection hop (DLBH)

GSM reference:	No ref.
Q3 name:	pcuDLBlerCpHopping
Modification:	Online
Range:	0 to 100 %
MML default:	20 %
Description:	With this parameter you indicate the RLC BLER (block error rate percentage) for CS-1 channel coding. At this point CS-1 and CS-2 give the same effective bit rate and Coding Scheme selection criteria in RLC Acknowledged mode for downlink TBFs changes. The parameter is meaningful only if link adaptation and Base Band Frequency Hopping are used.
Related command(s):	EQV, EQO
Note:	OPTIONAL (Gb Interface functionality)

5.67 DL BLER crosspoint for CS selection no hop (DLB)

GSM reference:	No ref.
Q3 name:	pcuDLBlerCpNonHop
Modification:	Online
Range:	0 to 100 %
MML default:	90 %
Description:	With this parameter you indicate the RLC BLER (block error rate percentage) for CS-1 channel coding. At this point CS-1 and CS-2 give the same effective bit rate and Coding Scheme selection criteria in RLC Acknowledged mode for downlink TBFs changes. The parameter is meaningful only if link adaptation is used in hopping.
Related command(s):	EQV, EQO
Note:	OPTIONAL (Gb Interface functionality)

5.68 DTX mode (DTX)

GSM reference:	I-ETS 300 022-1 (GSM 04.08)
Q3 name:	dtxMode
Modification:	Online
Range:	0 (MS may use DTX) 1 (MS shall use DTX) 2 (MS shall not use DTX)
MML default:	2
Description:	With this parameter you define how the MS uses DTX (discontinuous transmission).
Related command(s):	EQM, EQO

5.69 early sending indication (ESI)

GSM reference:	ETS 300 557 (GSM 04.08)
Q3 name:	earlySendingIndication
Modification:	Online
Range:	Y (early classmark sending is accepted) N (early classmark sending is forbidden)
MML default:	Y
Description:	With this parameter you accept or forbid the early sending of the MS Classmark 3 message in call setup phase to the network.
Related command(s):	EQM, EQO

5.70 EGPRS enabled (EGENA)

GSM reference:	No ref.
Q3 name:	eGPRSEnabled
Modification:	Online, GPRS has to be enabled (GENA=Y)
Range:	Y/N
MML default:	N
Description:	With this parameter you enable or disable the EGPRS capability in the BTS. All TRXs of the BTS have to be EDGE capable.
Related command(s):	EQV, EQO
Note:	OPTIONAL (Gb Interface functionality and Enhanced Data Rates for Global Evolution, EDGE)

5.71 emergency call restricted (EC)

GSM reference:	I-ETS 300 022-1 (GSM 04.08)
Q3 name:	emergencyCallRestricted

Modification:	Online
Range:	Y/N
MML default:	N
Description:	With this parameter you define if an emergency call in the cell is allowed to all MSs or only to the MSs which belong to one of the classes between 11 to 15. Value 'Y' means the latter case.
Related command(s):	EQF, EQO

5.72 fdd cell reselect offset (FDD)

GSM reference:	3GPP 04.18, 44.018, 05.08
Q3 name:	fddQOffset
Modification:	Online
Range:	-28 ..28 dB with 4 dB steps N (minus infinity dB)
MML default:	N
Description:	With this parameter you define a WCDMA RAN cell reselection offset for non-GPRS capable dual mode mobiles which are in the idle state. The mobiles add the offset to the running average (RLA_C) of the received signal level of the serving GSM cell and non-serving GSM cells. After that the mobiles compare the measured RSCP values of WCDMA RAN cells with signal levels of the GSM cells.
Related command(s):	EQM, EQO
Note:	A non-GPRS capable dual mode mobile makes always a cell reselection from the serving GSM cell to a WCDMA RAN cell if the parameter has value N and the measured RSCP level of the WCDMA RAN cell is high enough. Optional (ISHO_SUPPORT_IN_BSC)

5.73 frequency band in use (BAND)

GSM reference:	No ref.
Q3 name:	frequencyBandInUse
Modification:	Read only
Range:	800, 900, 1800, 1900
MML default:	-
Description:	With this parameter you indicate the frequency band used in the BTS. The frequency bands are GSM 800 (800), GSM 900 (900), GSM 1800 (1800) and GSM 1900 (1900).
Related command(s):	EQC, EQO

5.74 GPRS cell barred (GBAR)

GSM reference:	GSM 04.60
Q3 name:	GPRSCellBarred
Modification:	Online
Range:	0 .. status for cell reselection is set to normal 1 .. status for cell reselection is set to barred
MML default:	0
Description:	With this parameter you combine the cell barred (BAR) and cell bar qualify (QUA) parameters and indicate the status for cell reselection.
Related command(s):	EQF, EQO
Note:	OPTIONAL (Gb Interface functionality)

5.75 GPRS cell reselect hysteresis (GHYS)

GSM reference:	GSM 04.60
Q3 name:	GPRSCellReselHysteresis

Modification:	Online
Range:	0, 2, 4, 6, 8, 10, 12, 14 dB
MML default:	4 dB
Description:	With this parameter you define additional hysteresis applied in READY state for selecting a cell in the same routing area.
Related command(s):	EQG, EQO
Note:	OPTIONAL (Gb Interface functionality)

5.76 GPRS enabled (GENA)

GSM reference:	No ref.
Q3 name:	GPRSEnabled
Modification:	Online
Range:	Y/N
MML default:	N
Description:	With this parameter you define whether the GPRS capability is enabled in the BTS during the normal operation of the cell.
Related command(s):	EQV, EQO
Note:	OPTIONAL (Gb Interface functionality)

5.77 GPRS fdd cell reselect offset (GFDD)

GSM reference:	3GPP 04.60, 05.08
Q3 name:	fddGprsQOffset
Modification:	Online
Range:	-28 ..28 dB with 4 dB steps N (minus infinity dB)
MML default:	N

Description:	With this parameter you define a WCDMA RAN cell reselection offset for GPRS capable dual mode mobiles which are in the idle state. The mobiles add the offset to the running average (RLA_P) of the received signal level of the serving GSM cell and non-serving GSM cells. After that the mobiles compare the measured RSCP values of WCDMA RAN cells with the signal levels of the GSM cells.
Related command(s):	EQM, EQO
Note:	A GPRS capable dual mode mobile makes always a cell reselection from the serving GSM cell to a WCDMA RAN cell if the parameter has value N and the measured RSCP level of the WCDMA RAN cell is high enough. Optional (ISHO_SUPPORT_IN_BSC and BSC_GPRS_PARA-M_ENABLED)

5.78 GPRS max number of retransmission (GRET)

GSM reference:	GSM 04.60
Q3 name:	GPRSMaxRetrans
Modification:	Online
Range:	1, 2, 4, 7 for each Radio Priority level
MML default:	4 4 4 4
Description:	With this parameter you indicate the maximum number of retransmissions allowed on the PRACH for each Radio Priority level 1 to 4. Radio Priority level 1 represents the highest priority. One parameter contains four values. All the values must be given at the same time by using the character &.
Related command(s):	EQM, EQO
Note:	OPTIONAL (Gb Interface functionality)

5.79 GPRS minimum fdd threshold (GFDM)

GSM reference:	3GPP 04.60, 05.08
Q3 name:	gprsFddQMin
Modification:	Online
Range:	-20 ..-13 dB with 1 dB steps
MML default:	-20
Description:	This parameter defines a minimum Ec/Io threshold that must be exceeded before a GPRS capable dual mode mobile is allowed to make a reselection from the serving GSM cell to an adjacent WCDMA RAN cell that is using frequency division duplex (FDD) type access technology/mode.
Related command(s):	EQM, EQO
Note:	Optional (ISHO_SUPPORT_IN_BSC and BSC_GPRS_PARA-M_ENABLED)

5.80 GPRS MS txpwr max cch (GTXP1)

GSM reference:	GSM 05.08.
Q3 name:	gprsMsTxpwrMaxCCH
Modification:	–
Range:	5..43 dBm with 2 dBm step
MML default:	33
Description:	With this parameter you define the maximum transmission power level a mobile station can use when accessing a packet control channel in the cell for GSM 900/800 bands.
Related command(s):	EQG, EQO
Note:	Optional (bsc_gprs_param_enabled)

5.81 GPRS MS txpwr max cch1x00 (GTXP2)

GSM reference:	GSM 05.08
Q3 name:	gprsMsTxPwrMaxCCH1x00
Modification:	–
Range:	For GSM 1800 0...36dBm with 2 dBm step For GSM 1900 0...32 dBm with 2 dBm step and 33 dBm
MML default:	30
Description:	With this parameter you define the maximum transmission power level a mobile station can use when accessing a packet control channel in the cell for GSM 1800/1900 bands.
Related command(s):	EQG, EQO
Note:	Optional (bsc_gprs_param_enabled)

5.82 GPRS non BCCH layer rxlev lower limit (GPL)

GSM reference:	No ref.
Q3 name:	GPRSNonBCCHRxlevLower
Modification:	Online
Range:	-110 to -47 dBm
MML default:	-100 dBm
Description:	With this parameter you define the threshold when a reallocation to a better BTS must be made. BTS with the direct GPRS access BTS option on is selected. If there are no BTSs with direct GPRS access BTS set to on, the BTS with the lowest non BCCH layer offset is selected. The value of this parameter must be lower than or equal to the value of the parameter GPU.
Related command(s):	EQG, EQO
Note:	OPTIONAL (Gb Interface functionality)

5.83 GPRS non BCCH layer rxlev upper limit (GPU)

GSM reference:	No ref.
Q3 name:	GPRSNonBCCHRxlevUpper
Modification:	Online
Range:	-110 to -47 dBm
MML default:	-95 dBm
Description:	With this parameter you define the minimum power level the MS has to receive to allocate resources from the BTS. The value of this parameter must be higher than or equal to the value of the parameter GPL.
Related command(s):	EQG, EQO
Note:	OPTIONAL (Gb Interface functionality)

5.84 GPRS not allowed access classes (GACC)

GSM reference:	GSM 04.60
Q3 name:	GPRSAccCtrlClass
Modification:	Online
Range:	0 to 9 11 to 15
MML default:	-
Description:	With this parameter you define the MS access classes that are not allowed to access a cell.
Related command(s):	EQF, EQO
Note:	OPTIONAL (Gb Interface functionality)

5.85 GPRS number of slots spread transmission (GSLO)

GSM reference:	GSM 04.60
Q3 name:	GPRSNbrSlotsSpreadTrans
Modification:	Online
Range:	2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 14, 16, 20, 25, 32 and 50
MML default:	10
Description:	With this parameter you define the number of slots used to spread transmission on the PRACH (Packet random access Channel).
Related command(s):	EQM, EQO
Note:	OPTIONAL (Gb Interface functionality)

5.86 GPRS rxlev access min (GRXP)

GSM reference:	GSM 04.60
Q3 name:	GPRSRxLevAccessMin
Modification:	Online
Range:	-110 dBm to -47 dBm
MML default:	-105 dBm
Description:	With this parameter you define the minimum power level an MS has to receive before it is allowed to access the cell.
Related command(s):	EQG, EQO
Note:	OPTIONAL (Gb Interface functionality)

5.87 GPRS threshold to search WCDMA RAN cells (QSRP)

GSM reference:	3GPP 04.60, 05.08
Q3 name:	qSearchP
Modification:	The administrative state of the PBCCH TRX must be locked on the serving GSM cell
Range:	0 ..15
MML default:	15
Description:	With this parameter you define the threshold for GPRS capable dual mode mobiles in idle state to search for and to measure WCDMA RAN neighbour cells introduced in 3G Cell Reselection list when a running average of the received downlink signal level (RLA_P) of the serving cell is below (0-7) or above (8-15) the threshold.
Related command(s):	EQM, EQO
Note:	If parameter value is 7 then GPRS capable multi-RAT MSs in idle state measure always neighbour WCDMA RAN cell(s). If parameter value is 15 then GPRS capable multi-RAT MSs in idle state do not measure any of neighbour WCDMA RAN cells. Optional (ISHO_SUPPORT_IN_BSC) and BSC_GPRS_PARA-M_ENABLED

5.88 HCS threshold (HCS)

GSM reference:	GSM 04.60
Q3 name:	hcsThreshold
Modification:	Online
Range:	-110, -108, … , -48 dB with 2 dB step N (not used)
MML default:	N
Description:	With this parameter you define the signal strength threshold for applying HCS in GPRS and LSA reselection.
Related command(s):	EQG, EQO
Note:	OPTIONAL (Gb Interface functionality)

5.89 hopping sequence number 1 (HSN1)

GSM reference:	I-ETS 300 022-1 (GSM 04.08) I-ETS 300 030 (GSM 05.02)
Q3 name:	hoppingSequenceNumber
Modification:	When BTS is locked
Range:	0 (cyclic hopping) 1...63 (random hopping)
MML default:	0
Description:	With this parameter you define whether cyclic or random hopping is used in BB hopping group 1 and in RF hopping. Hopping sequence number 1 is used in the frequency hopping sequence generation algorithm and it is located in the Frequency Hopping System 1 (time slots 0 except BCCH time slot).
Related command(s):	EQC, EQE, EQO, EFO
Note:	Check that either cyclic or random hopping is used in the whole site. The parameter is only used with BB and RF hopping. See the *BTS hopping mode* parameter.

5.90 hopping sequence number 2 (HSN2)

GSM reference:	I-ETS 300 022-1 (GSM 04.08) I-ETS 300 030 (GSM 05.02)
Q3 name:	hoppingSequenceNumber
Modification:	When BTS is locked
Range:	0 (cyclic hopping) 1...63 (random hopping)
MML default:	0
Description:	With this parameter you define whether cyclic or random hopping is used in BB hopping group 2. Hopping sequence number 2 is

used in the frequency hopping sequence generation algorithm and it is located in the Frequency Hopping System 2 (time slots 1-7).

Related command(s): EQC, EQE, EQO, EFO

Note: Check that either cyclic or random hopping is used in the whole site.

The parameter is used only with BB hopping. See the *BTS hopping mode* parameter.

5.91 HSCSD cell load lower limit (HCL)

GSM reference: GSM TS 02.34 (GSM 02.34)

TS 101 038 (GSM 03.34)

Q3 name: lowerLimitCellLoadHSCSD

Modification: Online

Range: 0..100 (%)

MML default: 100

Description: With this parameter you determine the lower limit in percent for cell load when the singleslot TCH allocation is stopped and the multislot allocation is started and resource upgrades are allowed for the HSCSD calls.

Related command(s): EQX, EQO

Note: OPTIONAL (High Speed Circuit Switched Data)

5.92 HSCSD cell load upper limit (HCU)

GSM reference: GSM TS 02.34 (GSM 02.34)

TS 101 038 (GSM 03.34)

Q3 name: upperLimitCellLoadHSCSD

Modification: Online

Range: 0..100 (%)

MML default:	100
Description:	With this parameter you determine the upper limit in percent for cell load when the multislot TCH allocation is stopped and the singleslot allocation is started for the HSCSD calls.
Related command(s):	EQX, EQO
Note:	OPTIONAL (High Speed Circuit Switched Data)

5.93 HSCSD downgrade guard time (HDT)

GSM reference:	GSM TS 02.34 (GSM 02.34) TS 101 038 (GSM 03.34)
Q3 name:	downgradeGuardTimeHSCSD
Modification:	Online
Range:	0 (deactivated) 1..65535 (s)
MML default:	0 (HSCSD)
Description:	With this parameter you determine the guard time before a resource downgrade for a HSCSD call is executed after call setup, handover, ALA, resource upgrade or resource downgrade. If the parameter is set to value 0, resource downgrade is not done.
Related command(s):	EQX, EQO
Note:	OPTIONAL (High Speed Circuit Switched Data)

5.94 HSCSD minimum exhaust (HME)

GSM reference:	GSM TS 02.34 (GSM 02.34) TS 101 038 (GSM 03.34)
Q3 name:	minExhaustHSCSD
Modification:	Online
Range:	1 (one TCH always released in downgrade)

	2 (downgrade is made from four to two, three to two, two to one TCHs) 3 (downgrade is made from four to two, three to one, two to one TCHs) 4 (only one TCH left always after downgrade)
MML default:	1
Description:	With this parameter you determine how much the data rate should decrease at least during the downgrade of an HSCSD call.
Related command(s):	EQX, EQO
Note:	OPTIONAL (High Speed Circuit Switched Data)

5.95 HSCSD regular cell load upper limit (HRCU)

GSM reference:	GSM TS 02.34 (GSM 02.34) TS 101 038 (GSM 03.34)
Q3 name:	upperLimitRegularLoadHSCSD
Modification:	Online
Range:	0..100 (%)
MML default:	100
Description:	With this parameter you determine the upper limit in percent for the cell load in the IUO regular frequency area when the multislot TCH allocation is stopped and the singleslot allocation is started for the HSCSD calls. Resource upgrades are not done in the IUO regular frequency area.
Related command(s):	EQX, EQO
Note:	OPTIONAL (High Speed Circuit Switched Data)

5.96 HSCSD TCH capacity minimum (HTM)

GSM reference:	GSM TS 02.34 (GSM 02.34) TS 101 038 (GSM 03.34)

Q3 name:	minHSCSDcapacityCell
Modification:	Online
Range:	0..100 (%)
MML default:	100
Description:	With this parameter you determine the minimum TCH capacity in percent which is offered to HSCSD calls in the cell. In low traffic load situation, the HSCSD calls can have more TCHs than indicated by the parameter.
Related command(s):	EQX, EQO
Note:	OPTIONAL (High Speed Circuit Switched Data)

5.97 HSCSD upgrade gain (HUG)

GSM reference:	GSM TS 02.34 (GSM 02.34) TS 101 038 (GSM 03.34)
Q3 name:	upgradeGainHSCSD
Modification:	Online
Range:	0 (no upgrade during guard time) 33 (upgrade during guard time if gain at least 33%) 55 (upgrade during guard time if gain at least 50%) 100 (upgrade during guard time if gain at least 100%)
MML default:	0
Description:	With this parameter you determine the data rate gain (%) which must be achieved before the resource upgrade can be done even though the upgrade guard time is not over.
Related command(s):	EQX, EQO
Note:	OPTIONAL (High Speed Circuit Switched Data)

5.98 HSCSD upgrade guard time (HUT)

GSM reference:	GSM TS 02.34 (GSM 02.34) TS 101 038 (GSM 03.34)
Q3 name:	upgradeGuardTimeHSCSD
Modification:	Online
Range:	0 (deactivated) 1..65535 (s)
MML default:	0
Description:	With this parameter you determine the guard time before a resource upgrade for a HSCSD call is executed after call setup, handover, ALA, resource upgrade or resource downgrade. If the parameter is set to value 0, resource upgrade is not done.
Related command(s):	EQX, EQO
Note:	OPTIONAL (High Speed Circuit Switched Data)

5.99 identification of BCCH frequency list (IDLE)

GSM reference:	I-ETS 300 034-1 (GSM 05.08)
Q3 name:	idleStateBCCHAllocation
Modification:	Online
Range:	0 (BCCH frequency list is taken from the adjacent cells defined for the BTS) 1...255 (identification of BCCH frequency list)
MML default:	0
Description:	With this parameter you define the BCCH frequency list used by idle MSs. This list is used for cell reselection and is sent on the BCCH.
Related command(s):	EQB, EQO
Note:	OPTIONAL (Double BA-lists)

5.100 initial MCS for acknowledged mode (MCA)

GSM reference:	No ref.
Q3 name:	initMcsAckMode
Modification:	Online
Range:	1 to 9
MML default:	9
Description:	With this parameter you indicate the Modulation and Coding Scheme (MCS) used at the beginning of a TBF for acknowledged mode. The parameter is used in EGPRS link adaptation.
Related command(s):	EQV, EQO
Note:	OPTIONAL (Gb Interface functionality and Enhanced Data Rates for Global Evolution, EDGE

5.101 initial MCS for unacknowledged mode (MCU)

GSM reference:	No ref.
Q3 name:	initMcsUnackMode
Modification:	Online
Range:	1 to 9
MML default:	6
Description:	With this parameter you indicate the MCS used at the beginning of a TBF for unacknowledged mode. The parameter is used in EGPRS link adaptation.
Related command(s):	EQV, EQO
Note:	OPTIONAL (Gb Interface functionality and Enhanced Data Rates for Global Evolution, EDGE

5.102 intelligent directed retry used (IDR)

GSM reference:	No ref.
Q3 name:	idrUsed
Modification:	Online
Range:	Y/N
MML default:	N
Description:	With this parameter you define if the directed retry feature is in use in the cell.
Related command(s):	EQF, EQO
Note:	OPTIONAL (Intelligent Directed Retry (IDR)).

5.103 limit for free TCHs (LIMIT)

GSM reference:	No ref.
Q3 name:	freeTchLimit
Modification:	Online
Range:	1..16
MML default:	16
Description:	With this parameter you define the number of free traffic channels that must be exceeded before all access attempts are granted. The value is BTS-specific and common to all traffic types of that BTS.
Related command(s):	EQT, EQO, ETO
Note:	OPTIONAL (Improved Trunk Reservation (TR))

5.104 location area code (LAC)

GSM reference:	I-ETS 300 022-1 (GSM 04.08)
Q3 name:	locationAreaId
Modification:	When BTS is locked
Range:	0..65535
MML default:	-
Description:	With this parameter you identify the location area code number.
Related command(s):	EQC, EQE, EQO, EEI
Note:	The LAI (*location area id*) parameter is composed of the MCC, MNC and LAC parameters. Location area (LA) is an area where an MS can move without performing a location updating procedure. Check adjacent cell parameters.

5.105 lower limit for FR TCH resources (FRL)

GSM reference:	No ref.
Q3 name:	btsSpLoadDepTCHRate
Modification:	Online
Range:	0..100 (%)
MML default:	100
Description:	With this parameter you define the percentage of full rate TCH resources that must be available for traffic channel allocation. Full rate TCHs are allocated until the number of free full rate resources is reduced below the threshold given in the parameter. The half rate resources are then allocated.
Related command(s):	EQM, EQO
Note:	OPTIONAL (Half Rate)

5.106 MAIO offset (MO)

GSM reference:	No ref.
Q3 name:	maioOffset
Modification:	If the BTS is RF hopping, the BTS or overlay TRXs must be locked.
Range:	0..62
MML default:	0
Description:	With this parameter you set the MAIO offset that is the lowest MAIO in the cell. With MAIO offset it is possible to use the same MA frequency list for two or more sectors of the site without collisions.
Related command(s):	EQA, EQO, EFO

5.107 MAIO step (MS)

GSM reference:	No ref.
Q3 name:	maioStep
Modification:	If the BTS is RF hopping, the BTS or overlay TRXs must be locked.
Range:	1..62
MML default:	1
Description:	With this parameter you choose the MAIOs not to be allocated successively for the cell, but for instance every second or every third value.
Related command(s):	EQA, EQO, EFO
Note:	OPTIONAL (Flexible MAIO management)

5.108 max GPRS capacity (CMAX)

GSM reference:	No ref.
Q3 name:	maxGPRScapacity
Modification:	When BTS is locked or GPRS is disabled
Range:	1 to 100 %
MML default:	100 %
Description:	With this parameter you define the maximum number of PSW (packet switched) channels in a BTS. The value of the CMAX parameter must be higher than or equal to the value of the CDEF parameter.
Related command(s):	EQV, EQO
Note:	OPTIONAL (Gb Interface functionality)

5.109 max number of repetition (NY1)

GSM reference:	I-ETS 300 022-1 (GSM 04.08)
Q3 name:	maxNumberOfRepetition
Modification:	Online
Range:	5..35
MML default:	5
Description:	With this parameter you define the maximum number of repetitions of the PHYSICAL INFO message during a handover that the transceiver can perform.
Related command(s):	EQM, EQO

5.110 max number of retransmission (RET)

GSM reference:	I-ETS 300 022-1 (GSM 04.08) I-ETS 300 022-1 (GSM 04.08)

Q3 name:	maxNumberRetransmission
Modification:	Online
Range:	1, 2, 4 or 7
MML default:	4
Description:	With this parameter you define the maximum number of retransmissions on the RACH (random access channel) that the MS can perform.
Related command(s):	EQM, EQO

5.111 max queue length (MQL)

GSM reference:	No ref.
Q3 name:	maxQueueLength
Modification:	Online
Range:	0..100 (%)
MML default:	50
Description:	With this parameter you define how many call and handover attempts can be queued to wait for a TCH release in a BTS. The parameter value is a percentage (0 - 100%) of the TCHs in use in a BTS.
Related command(s):	EQH, EQO

5.112 max time limit directed retry (MADR)

GSM reference:	No ref.
Q3 name:	maxTimeLimitDirectedRetry
Modification:	Online
Range:	1..15 (s)
MML default:	5

Description:	With this parameter you define the maximum time period starting from the assignment request during which the target cell evaluation for the directed retry handover is allowed.
Related command(s):	EQF, EQO
Note:	OPTIONAL (Directed Retry OR Intelligent Directed Retry (IDR))

5.113 maximum BLER in acknowledged mode (BLA)

GSM reference:	No ref.
Q3 name:	maxBlerAckMode
Modification:	Online
Range:	10 to 100 %
MML default:	90
Description:	With this parameter you indicate the maximum block error rate of first transmission in acknowledged mode. The parameter is used in EGPRS link adaptation.
Related command(s):	EQV, EQO
Note:	OPTIONAL (Gb Interface functionality and Enhanced Data Rates for Global Evolution, EDGE

5.114 maximum BLER in unacknowledged mode (BLU)

GSM reference:	No ref.
Q3 name:	maxBlerUnackMode
Modification:	Online
Range:	1 to 100
MML default:	10
Description:	With this parameter you indicate the maximum block error rate in unacknowledged mode. The unit is parts per thousand. The parameter is used in EGPRS link adaptation.

Related command(s): EQV, EQO

Note: OPTIONAL (Gb Interface functionality and Enhanced Data Rates for Global Evolution, EDGE

5.115 mean BEP offset 8PSK (MBP)

GSM reference: No ref.

Q3 name: meanBepOffset8PSK

Modification: Online

Range: –31 to 31

MML default: 0

Description: With this parameter you can adjust the MCS and modulation preferences. This is the offset added to reported 8PSK mean BEP values before BEP table lookups. The value applies to both uplink and downlink directions. The parameter is used in EGPRS link adaptation.

Related command(s): EQV, EQO

Note: OPTIONAL (Gb Interface functionality and Enhanced Data Rates for Global Evolution, EDGE)

5.116 mean BEP offset GMSK (MBG)

GSM reference: No ref.

Q3 name: meanBepOffsetGMSK

Modification: Online

Range: –31 to 31

MML default: 0

Description: With this parameter you can adjust the MCS and modulation preferences. This is the offset added to reported GMSK mean BEP values before BEP table lookups. The value applies to both uplink and downlink directions. The parameter is used in EGPRS link adaptation.

Related command(s):	EQV, EQO
Note:	OPTIONAL (Gb Interface functionality and Enhanced Data Rates for Global Evolution, EDGE)

5.117 min time limit directed retry (MIDR)

GSM reference:	No ref.
Q3 name:	minTimeLimitDirectedRetry
Modification:	Online
Range:	0..14 (s)
MML default:	0
Description:	With this parameter you define the period starting from the assignment request during which the target cell evaluation for the directed retry handover is not allowed.
Related command(s):	EQF, EQO
Note:	OPTIONAL (Directed Retry OR Intelligent Directed Retry (IDR))

5.118 minimum fdd threshold (FDM)

GSM reference:	3GPP 04.18, 44.018, 05.08
Q3 name:	fddQMin
Modification:	Online
Range:	-20 ..-13 dB with 1 dB steps
MML default:	-20
Description:	This parameter defines a minimum Ec/Io threshold which must be exceeded before a non-GPRS capable dual mode mobile is allowed to make a reselection from the serving GSM cell to an adjacent WCDMA RAN cell that is using frequency division duplex (FDD) type access technology/mode.
Related command(s):	EQM, EQO

Note: Optional (ISHO_SUPPORT_IN_BSC)

5.119 mobile allocation frequency list (MAL)

GSM reference: No ref.

Q3 name: usedMobileAllocation

Modification: If BTS is RF hopping, the BTS must be locked

Range: 0..255

Value 0 detaches the BTS from any mobile allocation frequency list.

MML default: No MA list attached

Description: With this parameter you define the mobile allocation frequency list to which the BTS will be attached. The parameter is relevant when RF hopping is used. See chapter Mobile Allocation Frequency List (MA).

Related command(s): EQA, EQO

5.120 mobile country code (MCC)

GSM reference: I-ETS 300 022-1 (GSM 04.08)

Q3 name: locationAreaId

Modification: When BTS is locked

Range: 0..999

MML default: -

Description: With this parameter you identify the mobile country code number.

Related command(s): EQC, EQE, EQO

Note: The *location area id* (LAI) parameter is composed of the MCC, MNC and LAC parameters. Location area (LA) is an area where an MS can move without performing a location updating procedure.

Check adjacent cell parameters.

5.121 mobile network code (MNC)

GSM reference:	I-ETS 300 022-1 (GSM 04.08)
Q3 name:	locationAreaId
Modification:	When BTS is locked
Range:	0..99 0..999 OPTIONAL (Three digit MNC)
MML default:	-
Description:	With this parameter you identify the mobile network code number.
Related command(s):	EQC, EQE, EQO
Note:	The *location area id* (LAI) parameter is composed of the MCC, MNC and LAC parameters. Location area (LA) is an area where an MS can move without performing a location updating procedure. Check adjacent cell parameters.

5.122 MS max distance in call setup (DMAX)

GSM reference:	No ref.
Q3 name:	msMaxDistanceInCallSetup
Modification:	Online
Range:	0..255
MML default:	255
Description:	With this parameter you define the maximum distance between the BTS and the MS in call setup. The maximum distance is expressed as an access delay. Within the range of 0...62, one step correlates to a distance of 550 meters. If the access delay of the channel request message exceeds the given maximum, the call attempt is rejected. When the parameter is given a value from 63 to 255, call attempts are never rejected.
Related command(s):	EQM, EQO

5.123 MS priority used (MPU)

GSM reference:	No ref.
Q3 name:	msPriorityUsedInQueueing
Modification:	Online
Range:	Y/N
MML default:	Y
Description:	With this parameter you define whether the call priority in the ASSIGNMENT REQUEST message (or the HANDOVER REQUEST message in handover) from the MSC is taken into account in queue handling.
Related command(s):	EQH, EQO

5.124 MS txpwr max CCH (TXP1)

GSM reference:	GSM 05.08
Q3 name:	msTxPwrMaxCCH
Modification:	–
Range:	5..43 dBm with 2 dBm step
MML default:	33
Description:	With this parameter you define the maximum transmission power an MS may use when accessing a CCH in the cell for GSM 900/800 bands.
Related command(s):	EQG, EQO

5.125 MS txpwr max CCH1x00 (TXP2)

GSM reference:	GSM 05.08
Q3 name:	msTxPwrMaxCCH1x00

Modification:	–
Range:	For GSM 1800 0...30dBm with 2 dBm step For GSM 1900 0...32 dBm with 2 dBm step and 33 dBm
MML default:	30
Description:	With this parameter you define the maximum transmission power an MS may use when accessing a CCH in the cell for GSM 1800/ 1900 bands.
Related command(s):	EQG, EQO

5.126 MS txpwr max gsm (PMAX1)

GSM reference:	No ref.
Q3 name:	msTxPwrMaxGSM
Modification:	Online
Range:	For GSM 800 and GSM 900: 5..43 dBm with 2dBm step
MML default:	33 dBm in GSM 900
Description:	With this parameter you define the maximum power level an MS may use in the serving cell. When segment usage option is on and the segment does not contain a BCCH BTS you cannot modify this parameter.
Related command(s):	EQM, EQO

5.127 MS txpwr max gsm1x00 (PMAX2)

GSM reference:	No ref.
Q3 name:	msTxPwrMaxGSM1x00
Modification:	Online
Range:	For GSM 1800 and GSM 1900: 0..36 dBm with 2dBm step
MML default:	30 in GSM 1800
Description:	With this parameter you define the maximum power level an MS

may use in the serving cell. When segment usage option is on and the segment does not contain a BCCH BTS you cannot modify this parameter.

Related command(s): EQM, EQO

5.128 MS txpwr min (PMIN)

GSM reference: No ref.

Q3 name: minMSTxPower

Modification: Online

Range: GSM 900 and GSM 800: 5..43 (dBm), with step size of 2

GSM 1800: 0..36 (dBm), with step size of 2

GSM 1900: 0..32 (dBm), with step size of 2, and 33 (dBm)

MML default: GSM 900 and GSM 800: 5

GSM 1800: 0

GSM 1900: 0

Description: With this parameter you define the minimum power level an MS may use in the serving cell.

Related command(s): EQM, EQO

5.129 multiband cell reporting (MBR)

GSM reference: ETS 300 557 (GSM 04.08)

ETS 300 578 (GSM 05.08)

TR 101 266 (GSM 03.26)

Q3 name: multiBandCellReporting

Modification: Online

Range: 0..3

MML default: 1

Description: With this parameter you define the number of adjacent cells from

	the other frequency band that the MS will report in the RX level report.
Related command(s):	EQM, EQO
Note:	OPTIONAL (Dual Band GSM/DCS)

5.130 network colour code (NCC)

GSM reference:	I-ETS 300 022-1 (GSM 04.08) I-ETS 300 030 (GSM 05.02)
Q3 name:	bsIdentityCode
Modification:	When BTS is locked
Range:	0..7
MML default:	-
Description:	With this parameter you identify the network colour code number.
Related command(s):	EQC, EQE, EQO
Note:	The BSIC parameter is composed of the NCC and BCC parameters. If you modify this parameter, the NCC parameter in adjacent cells is automatically modified.

5.131 network service entity identifier (NSEI)

GSM reference:	No ref.
Q3 name:	nsei
Modification:	Online
Range:	0 ..65535
MML default:	-
Description:	With this parameter you can manually select the network service entity identifier to which the BTS/SEG will be connected. If you give this parameter the PCU selection algorithm is not used. The

routing area must be created and the NSEI must exist on the routing area the BTS/SEG is using. You can give this parameter only when the parameter GPRS enabled (GENA) is set to Y.

Related command(s): EQC, EQV, EQO

Note: OPTIONAL (Gb Interface functionality)

5.132 new establishment causes support (NECI)

GSM reference: No ref.

Q3 name: newEstabCausesSupport

Modification: Online

Range: Y/N

MML default: N

Description: With this parameter you define whether the BSC supports new establishment causes.

Related command(s): EQM, EQO

5.133 non BCCH layer offset (NBL)

GSM reference: No ref.

Q3 name: nonBCCHLayerOffset

Modification: Online

Range: –40 to +40 dBm

MML default: 0 dBm

Description: With this parameter you define whether the predefined offset margin is used when evaluating the signal level of the non BCCH layer.

Related command(s): EQM, EQO

Note: OPTIONAL (Common BCCH Control or Multi BCF Control)

5.134 not allowed access classes (ACC)

GSM reference:	I-ETS 300 022-1 (GSM 04.08)
Q3 name:	notAllowedAccessClasses
Modification:	Online
Range:	0..9, 11..15
MML default:	-
Description:	With this parameter you define the MS access classes that are not allowed to access a cell.
Related command(s):	EQF, EQO

5.135 number of blocks for access grant msg (AG)

GSM reference:	I-ETS 300 022-1 (GSM 04.08) I-ETS 300 030 (GSM 05.02) I-ETS 300 030 (GSM 05.02)
Q3 name:	noOfBlocksForAccessGrant
Modification:	When BTS is locked
Range:	0..7 (if combined BCCH not used) 1..7 (if CBCH used at SDCCH/8) 0..2 (if combined BCCH used)
MML default:	1
Description:	With this parameter you define the number of blocks reserved for access grant messages from the CCCH during the 51 TDMA frame (a multiframe).
Related command(s):	EQJ, EQO

5.136 number of multiframes (MFR)

GSM reference:	I-ETS 300 022-1 (GSM 04.08) I-ETS 300 030 (GSM 05.02) I-ETS 300 030 (GSM 05.02)
Q3 name:	noOfMultiframesBetweenPaging
Modification:	When BTS is locked
Range:	2..9
MML default:	4
Description:	With this parameter you define the number of multiframes between two transmissions of the same paging message to the MSs of the same paging group.
Related command(s):	EQJ, EQO

5.137 number of slots spread trans (SLO)

GSM reference:	I-ETS 300 022-1 (GSM 04.08)
Q3 name:	numberOfSlotsSpreadTrans
Modification:	Online
Range:	3..12, 14, 16, 20, 25, 32, 50
MML default:	10
Description:	With this parameter you define the number of TDMA frames over which retransmission is spread on the RACH (random access channel).
Related command(s):	EQM, EQO

5.138 number of traffic channels reserved for priority subscribers only (TCRP)

GSM reference:	No ref.
Q3 name:	nbrTCHForPrioritySubs
Modification:	Online
Range:	0..8
MML default:	0
Description:	With this parameter you define the number of traffic channels reserved in the BTS for priority subscribers only.
Related command(s):	EQT, EQO
Note:	OPTIONAL (Improved Trunk Reservation (TR))

5.139 PAGCH blocks (PAB)

GSM reference:	GSM 04.60
Q3 name:	bsPagingBlocksRes
Modification:	PBCCH TRX must be locked
Range:	0 to 12
MML default:	4
Description:	With this parameter you indicate the number of blocks on each PDCH carrying the PCCCH per multiframe where neither packet paging nor PBCCH should appear. This number corresponds therefore to the number of blocks reserved for PAGCH, PNCH, PDTCH and PACCH.
Related command(s):	EQJ, EQO
Note:	OPTIONAL (GPRS)

5.140 PBCCH blocks (PBB)

GSM reference:	GSM 04.60
Q3 name:	bsPBCCHBlocks
Modification:	PBCCH TRX must be locked
Range:	1 to 4 blocks
MML default:	3
Description:	With this parameter you define the amount of blocks allocated to the PBCCH in the multiframe.
Related command(s):	EQJ, EQO
Note:	OPTIONAL (GPRS)

5.141 penalty time (PET)

GSM reference:	ETS 300 574 (GSM 05.02)
Q3 name:	penaltyTime
Modification:	Online
Range:	20..640 (s)
MML default:	20
Description:	With this parameter you define the duration for which the *temporary offset* (TEO) applies. The parameter can be changed in steps of 20 s. Value 640 s indicates that the sign of the *cell reselect offset* (REO) parameter will be changed and the *temporary offset* (TEO) parameter will be ignored.
Related command(s):	EQM, EQO
Note:	OPTIONAL (C2 Cell reselection parameter)

5.142 PLMN permitted (PLMN)

GSM reference:	I-ETS 300 022-1 (GSM 04.08) I-ETS 300 034-1 (GSM 05.08)
Q3 name:	plmn-permitted
Modification:	Online
Range:	0..7
MML default:	The NCC of the BTS
Description:	With this parameter you define to which PLMNs the MS is permitted to report measurement results. The values relate to the NCC part of the BSICs.
Related command(s):	EQF, EQO

5.143 power offset (PO)

GSM reference:	No ref.
Q3 name:	powerOffset
Modification:	Online
Range:	0..6 (dBm) with a step size of 2
MML default:	0
Description:	With this parameter you define the maximum transmission power a class 3 GSM 1800 MS may use when accessing the system. The maximum transmit power is *ms txpwr max cch* (TXP) + *power offset* (PO).
Related command(s):	EQG, EQO

5.144 PRACH blocks (PRB)

GSM reference:	GSM 04.60
Q3 name:	bsPRACHBlocks

Modification:	PBCCH TRX must be locked
Range:	0 to 12
MML default:	6
Description:	With this parameter you indicate the number of blocks reserved in a fixed way to the PRACH channel on any PDCH carrying the PCCCH. The parameter is related to *bs PBCCH blocks (BSPB)* and *bs paging blocks reserve (BSPA).* and data channel.
Related command(s):	EQJ, EQO
Note:	OPTIONAL (GPRS)

5.145 prefer BCCH frequency GPRS (BFG)

GSM reference:	No ref.
Q3 name:	preferBCCHfreqGPRS
Modification:	When the BTS is locked or the GPRS is disabled
Range:	Y/N
MML default:	N
Description:	With this parameter you define whether the BCCH TRX or other TRXs are preferred in GPRS channel allocation. The meaning of this parameter depends on the value of the BTS parameter *TRX priority in TCH allocation* (TRP) which indicates the prioritisation used for circuit switched traffic. Value Y means that prioritisation indicated with parameter TRP for circuit switched traffic is also used for GPRS channel allocation. Value N means that a value opposite to the one indicated with parameter TRP for circuit switched traffic is used for GPRS channel allocation. If no TRX prioritisation has been defined for circuit switched traffic (the value of parameter TRP is 0), no prioritisation will be applied in GPRS channel allocation, either.
Related command(s):	EQV, EQO
Note:	OPTIONAL (Gb Interface functionality)

5.146 priority class (PRC)

GSM reference:	GSM 04.60
Q3 name:	hcsPriorityClass
Modification:	Online
Range:	0 to 7
MML default:	0
Description:	With this parameter you define the HCS (hierarchical cell structures) priority for the cells. 0 is the lowest and 7 is the highest priority.
Related command(s):	EQG, EQO
Note:	OPTIONAL (Gb Interface functionality)

5.147 queue priority used (QPU)

GSM reference:	No ref.
Q3 name:	queuePriorityUsed
Modification:	Online
Range:	Y/N
MML default:	Y
Description:	With this parameter you define whether the BSC internal queuing type priority (parameters *queueing priority call* (QPC), *queueing priority urgent handover* (QPH) and *queueing priority non-urgent handover* (QPN)) is taken into account in queue handling.
Related command(s):	EQH, EQO

5.148 queueing priority call (QPC)

GSM reference:	No ref.
Q3 name:	queueingPriorityCall
Modification:	Online
Range:	1..14 (1 = highest priority)
MML default:	10
Description:	With this parameter you define the call attempt priority in the BTS. *Queueing priority call* is one of the queuing type priorities. The others are: urgent handovers (parameter QPH) and non-urgent handovers (parameter QPN). Note that you have to define the QPU parameter value as Y before the queuing type priorities are taken into account.
Related command(s):	EQH, EQO

5.149 queueing priority non-urgent handover (QPN)

GSM reference:	No ref.
Q3 name:	queuePriorityNonUrgentHo
Modification:	Online
Range:	1..14 (1 = highest priority)
MML default:	9
Description:	With this parameter you define the non-urgent handover attempt (queuing type) priority in the BTS. *Queueing priority non-urgent handover* is one of the queuing type priorities. The others are: call attempts (parameter QPC) and urgent handovers (parameter QPH). Note that you have to define the QPU parameter value as Y before the queuing type priorities are taken into account.
Related command(s):	EQH, EQO

5.150 queueing priority urgent handover (QPH)

GSM reference:	No ref.
Q3 name:	queueingPriorityHandover
Modification:	Online
Range:	1..14 (1 = highest priority)
MML default:	9
Description:	With this parameter you define the urgent handover attempt (queuing type) priority in the BTS. *Queueing priority urgent handover* is one of the queuing type priorities. The others are: call attempts (parameter QPC) and non-urgent handovers (parameter QPN). Note that you have to define the QPU parameter value as Y before the queuing type priorities are taken into account.
Related command(s):	EQH, EQO

5.151 ra reselect hysteresis (RRH)

GSM reference:	GSM 04.60
Q3 name:	raReselectHysteresis
Modification:	Online
Range:	0, 2, 4, 6, 8, 10, 12, 14 dB
MML default:	4 dB
Description:	With this parameter you define additional hystereses applied in both STANDBY and READY states for selecting a cell in a different routing area.
Related command(s):	EQG, EQO

5.152 radio link timeout (RLT)

GSM reference:	I-ETS 300 022-1 (GSM 04.08) I-ETS 300 034-1 (GSM 05.08)
Q3 name:	radioLinkTimeout
Modification:	Online
Range:	4..64, with step size of 4
MML default:	20
Description:	With this parameter you define the maximum value of the radio link counter expressed in SACCH blocks.
Related command(s):	EQG, EQO

5.153 radius extension (EXT)

GSM reference:	No ref.
Q3 name:	radiusExtension
Modification:	When BTS is locked
Range:	Nokia 2nd generation: 0..67 (km) Nokia Talk-family and Nokia UltraSite: 0..35 (km) Nokia PrimeSite, Nokia MetroSite and Nokia InSite do not support the Extended Range Cell feature.
MML default:	0 (ordinary cell)
Description:	With this parameter you define the radius extension of an extended cell.
Related command(s):	EQM, EQO
Note:	OPTIONAL (Improved solution for Extended cell radius)

5.154 random access retry (RAR)

GSM reference:	GSM 04.60
Q3 name:	randomAccessRetry
Modification:	Online
Range:	Y/N
MML default:	Y
Description:	With this parameter you indicate that the mobile station should try to access another cell if available in the event of an abnormal release with cell reselection.
Related command(s):	EQG, EQO
Note:	OPTIONAL (Gb Interface functionality)

5.155 reselection time (RES)

GSM reference:	GSM 04.60
Q3 name:	tResel
Modification:	Online
Range:	5, 10, 15, 20, 30, 60, 120 and 300 seconds N (not allowed)
MML default:	5 SECONDS
Description:	With this parameter you define the time, in seconds, that a mobile station which has perfomed an abnormal release with cell reselection from this cell is not allowed to reselect this cell if another cell is available. If the parameter has the value "not allowed", it means the same as setting the *random access retry* value to N.
Related command(s):	EQG, EQO
Note:	OPTIONAL (Gb Interface functionality)

5.156 reservation method used in trunk reservation (REM)

GSM reference:	No ref.
Q3 name:	reservationMethod
Modification:	Online
Range:	DYN (dynamic reservation method) STAT (static reservation method)
MML default:	DYN
Description:	With this parameter you define which reservation method of traffic channels the trunk reservation algorithm uses.
Related command(s):	EQT, EQO
Note:	OPTIONAL (Improved Trunk Reservation (TR))

5.157 restricted use of priority channels in incoming handover (RUP)

GSM reference:	No ref.
Q3 name:	priorityChUseIncomingHO
Modification:	Online
Range:	Y/N
MML default:	Y
Description:	With this parameter you define if the priority channels are available only for priority subscribers also in an incoming handover.
Related command(s):	EQT, EQO
Note:	OPTIONAL (Improved Trunk Reservation (TR))

5.158 routing area code (RAC)

GSM reference:	ETS 301 344 (GSM 03.60)
Q3 name:	rac
Modification:	Only when the GPRS is disabled
Range:	0 ... 255
MML default:	255
Description:	With this parameter you identify GPRS cells using the routing area code number.
Related command(s):	EQV, EQO
Note:	OPTIONAL (Gb Interface functionality)

5.159 RX diversity (RDIV)

GSM reference:	No ref.
Q3 name:	diversityUsed
Modification:	Online
Range:	Y (RX diversity is used) W (4-way RX diversity is used) N (RX diversity is not used)
MML default:	N
Description:	With this parameter you define whether RX diversity is used in the BTS.
Related command(s):	EQM, EQO
Note:	The parameter is only allowed for Nokia MetroSite and Nokia UltraSite. 4-way diversity is available for the Nokia UltraSite site type only.

5.160 rxlev access min (RXP)

GSM reference:	I-ETS 300 022-1 (GSM 04.08) I-ETS 300 034-1 (GSM 05.08)
Q3 name:	rxLevAccessMin
Modification:	Online
Range:	-110..-47 (dBm)
MML default:	-105
Description:	With this parameter you define the minimum power level an MS has to receive before it is allowed to access the cell.
Related command(s):	EQG, EQO

5.161 SEG identification (SEG)

GSM reference:	No ref.
Q3 name:	segmentId
Modification:	Read only
Range:	The value range depends on the BSC hardware configuration and the corresponding options.
MML default:	Same value than bts_id
Description:	With this parameter you identify the segment.
Related command(s):	Many commands
Note:	Optional (Common BCCH Control or Multi BCF Control)

5.162 SEG name (SEGNAME)

GSM reference:	No ref.
Q3 name:	segmentName

Modification:	Read only
Range:	1 to 15 characters
MML default:	Same name than BTS's name
Description:	With this parameter you identify the segment by its name.
Related command(s):	Many commands
Note:	Optional (Common BCCH Control or Multi BCF Control)

5.163 SMS CB used (CB)

GSM reference:	I-ETS 300 022-1 (GSM 04.08)
Q3 name:	smsCBUsed
Modification:	Online
Range:	Y/N
MML default:	N
Description:	With this parameter you allow or deny cell broadcast SMS (short message service) in a cell.
Related command(s):	EQM, EQO
Note:	If the value is "Y", a CBCH must be defined for the cell.

5.164 softblocking threshold on regular frequencies (STR)

GSM reference:	No ref.
Q3 name:	softBlockingStartReg
Modification:	Online
Range:	0..255
MML default:	255

Description: With this parameter you define the threshold for the number of half or fully occupied TCH-TSLs on regular TRXs in a cell. If the traffic intensity on regular frequencies exceeds the threshold, the softblocking procedure is activated in the BTS.

Related command(s): EQM, EQO

Note: OPTIONAL (Dynamic Hotspot)

5.165 softblocking threshold on super-reuse frequencies (STS)

GSM reference: No ref.

Q3 name: softBlockingStartSup

Modification: Online

Range: 0..255

MML default: 255

Description: With this parameter you define the threshold for the number of half or fully occupied TCH-TSLs on super-reuse TRXs in a cell. If the traffic intensity on super-reuse frequencies exceeds the threshold, the softblocking procedure is activated in the BTS.

Related command(s): EQM, EQO

Note: OPTIONAL (Dynamic Hotspot)

5.166 table identification (TBL)

GSM reference: No ref.

Q3 name: -

Modification: Online

Range: 0..64

MML default: -

Description: With this parameter you define the number of the trunk reservation decision threshold table which will be attached to the

BTS. Use value 0 to detach the defined traffic type(s) from all decision threshold tables. In addition, if you have not defined the traffic types (parameter TT), all traffic types of that BTS are detached from all decision threshold tables.

Related command(s): EQT, EQO, ETO

Note: OPTIONAL (Improved Trunk Reservation (TR))

5.167 TCH rate intra-cell handover (TRIH)

GSM reference: No ref.

Q3 name: tchrateIntraCellHo

Modification: Online

Range:

0 (constraints given by the BSS-level parameter *TCH rate internal HO* are followed)

1 (the call serving type of TCH and the call serving type of speech codec are preferred to be primarily allocated)

2 (the call serving type of TCH and the call serving type of speech codec are preferred to be primarily allocated during the speech connection. The channel rate change is possible during data connection when needed if the radio interface data rate allows it)

3 (the channel rate and speech codec changes are totally denied. The call serving type of channel is only alternative in TCH allocation)

4 (the preferred channel rate of TCH and preferred speech codec have to be primarily allocated)

MML default: 0

Description: With this parameter you control the TCH channel rate determination in TCH allocation and the TCH speech codec to be allocated during internal intra-cell handover.

Related command(s): EQM, EQO

Note: OPTIONAL (Half Rate OR Enhanced Full Rate Codec)

5.168 temporary offset (TEO)

GSM reference:	ETS 300 574 (GSM 05.02) ver 4.5.0 6.4
Q3 name:	temporaryOffset
Modification:	Online
Range:	0..70 (dB) with a step size of 10 dB
MML default:	0
Description:	With this parameter you define the negative offset of the C2 reselection criterion for the duration of the *penalty time* (PET) after the MS has placed the cell on the list of the strongest carriers. The parameter can be changed in 10 dB steps. Value 70 dB means infinity.
Related command(s):	EQM, EQO
Note:	OPTIONAL (C2 Cell reselection parameter)

5.169 threshold to search WCDMA RAN cells (QSRI)

GSM reference:	3GPP 04.18, 44.018, 05.08
Q3 name:	qSearchI
Modification:	Online
Range:	0 ..15
MML default:	15
Description:	With this parameter you define the threshold for non-GPRS capable dual mode mobiles in idle state to search for and to measure WCDMA RAN neighbour cells introduced in 3G Cell Reselection list when a running average of received downlink signal level (RLA_C) of the serving cell is below (0-7) or above (8-15) the threshold.
Related command(s):	EQM, EQO
Note:	If the parameter value is 7 then non-GPRS capable dual mode mobiles in idle state measure always neighbour WCDMA RAN cell (s). If the parameter value is 15 then non-GPRS capable dual mode mobiles in idle state do not measure any of the neighbour WCDMA RAN cells.

Optional (ISHO_SUPPORT_IN_BSC)

5.170 time limit call (TLC)

GSM reference:	No ref.
Q3 name:	timeLimitCall
Modification:	Online
Range:	0..15 (s)
MML default:	10
Description:	With this parameter you define the maximum queuing time for call attempts (incoming or outgoing) in the BTS in seconds. Value 0 deactivates call attempt queuing.
Related command(s):	EQH, EQO

5.171 time limit handover (TLH)

GSM reference:	No ref.
Q3 name:	timeLimitHandover
Modification:	Online
Range:	0..10 (s)
MML default:	5
Description:	With this parameter you define the maximum queuing time for handover attempts (both urgent and non-urgent) in the BTS in seconds.
Related command(s):	EQH, EQO

5.172 timer for periodic MS location updating (PER)

GSM reference:	I-ETS 300 022-1 (GSM 04.08)
Q3 name:	timerPeriodicUpdateMS
Modification:	Online
Range:	0 ..25.5 (hours) with a step of 0.1 0 (PER not performed)
MML default:	0.5
Description:	With this parameter you define the interval between periodic MS location updates. The value 0 means that the periodic location update is not used.
Related command(s):	EQJ, EQO
Note:	PER period must be shorter than the “implicit deregistration” period in VLR. Otherwise mobile terminating calls may fail.

5.173 traffic types (TT)

GSM reference:	No ref.
Q3 name:	trafficTypesForTrunk
Modification:	Online
Range:	1 (GSM call setup) 2 (MCN call setup) 3 (GSM handover) 4 (MCN handover) 5 (priority call setup) 6 (priority handover) 7-10
MML default:	-
Description:	With this parameter you define the traffic type(s) that will be attached to the decision threshold table.
Related command(s):	EQT, EQO, ETO
Note:	OPTIONAL (Improved Trunk Reservation (TR)).

5.174 transport type (TRAT)

GSM reference:	No ref.
Q3 name:	transportType
Modification:	Online
Range:	IP/FR/ANY
MML default:	ANY
Description:	With this parameter you can manually select the transport type of the NSEI which the BTS/SEG will use. This parameter is used in the PCU selection algorithm.
Related command(s):	EQC, EQV, EQO
Note:	Optional (bsc_gprs_param_enabled)

5.175 trunk reservation used (TR)

GSM reference:	No ref.
Q3 name:	trunkReservationUsed
Modification:	Online
Range:	Y/N
MML default:	N
Description:	With this parameter you define whether the trunk reservation algorithm is used in the cell.
Related command(s):	EQT, EQO
Note:	OPTIONAL (Improved Trunk Reservation (TR))

5.176 TRX priority in TCH allocation (TRP)

GSM reference: No ref.

Q3 name: trxPriorityInTCHAlloc

Modification: Online when the GPRS is disabled

Range:
0 (no prioritisation is determined between TRXs)
1 (traffic channel is allocated primarily from the BCCH TRX)
2 (traffic channel is allocated primarily beyond the BCCH TRX)

MML default: 0

Description: With this parameter you define whether the BCCH TRX or other TRXs (of the regular frequency area) are preferred in traffic channel allocation.

The value of this parameter has an effect on the meaning of parameter *prefer BCCH frequency GPRS* (BFG), which indicates whether the BCCH TRX or other TRXs are preferred in GPRS channel allocation.

Value Y of parameter BFG means that prioritisation indicated with parameter TRP for circuit switced traffic is also used for GPRS channel allocation.

Value N of parameter BFG means that a value opposite to the one indicated with parameter TRP for circuit switched prioritisation is used for GPRS channel allocation.

If no TRX prioritisation has been defined for circuit switched traffic (the value of parameter TRP is 0), no prioritisation will be applied in GPRS channel allocation, either.

Related command(s): EQM, EQO

5.177 UL adaption probability threshold (ULA)

GSM reference: No ref.

Q3 name: -

Modification: Online

Range: 0 to 50 %

MML default: 10 %

Description: With this parameter you define the allowed probability (%) for the system to make a wrong decision in uplink adaptation.

Related command(s): EQV, EQO

Note: OPTIONAL (Gb Interface functionality)

5.178 UL BLER crosspoint for CS selection hop (ULBH)

GSM reference: No ref.

Q3 name: pcuULBlerCpHopping

Modification: Online

Range: 0 to 100 %

MML default: 24 %

Description: With this parameter you indicate the RLC BLER (block error rate percentage) for CS-1 channel coding. At this point CS-1 and CS-2 give the same effective bit rate and Coding Scheme selection criteria in RLC Acknowledged mode for uplink TBFs changes. The parameter is meaningful only if link adaptation and hopping are used.

Related command(s): EQV, EQO

Note: OPTIONAL (Gb Interface functionality)

5.179 UL BLER crosspoint for CS selection no hop (ULB)

GSM reference: No ref.

Q3 name: pcuULBlerCpNoHop

Modification: Online

Range: 0 to 100 %

MML default: 90 %

Description: With this parameter you indicate the RLC BLER (block error rate percentage) for CS-1 channel coding. At this point CS-1 and CS-2 give the same effective bit rate and Coding Scheme selection criteria in RLC Acknowledged mode for uplink TBFs changes. The parameter is meaningful only if link adaptation is used in hopping.

Related command(s):	EQV, EQO
Note:	OPTIONAL (Gb Interface functionality)

5.180 underlay BTS hopping mode (UHOP)

GSM reference:	No ref.
Q3 name:	underlayHoppingMode
Modification:	When BTS is locked
Range:	BB (baseband hopping is used) RF (radio frequency hopping is used) N (hopping is not used)
MML default:	N
Description:	With this parameter you define the frequency hopping mode of the underlay layer.
Related command(s):	EQC, EQE, EQO, EFO
Note:	OPTIONAL ((Intelligent Underlay Overlay OR Intelligent Coverage Enhancement) AND Intelligent Frequency Hopping)

5.181 underlay hopping sequence number (UHSN)

GSM reference:	No ref.
Q3 name:	hoppingSequenceNumber
Modification:	When BTS is locked
Range:	0 (cyclic hopping) 1...63 (random hopping)
MML default:	0
Description:	With this parameter you define whether cyclic or random hopping is used in the underlay layer of the IUO cell. Hopping sequence numbers are used in the frequency hopping sequence generation algorithm.

Related command(s): EQC, EQE, EQO, EFO

Note: OPTIONAL (Intelligent Underlay Overlay AND Intelligent Frequency Hopping)

5.182 underlay MAIO offset (UMO)

GSM reference: No ref.

Q3 name: underlayMaioOffset

Modification: If the BTS is RF hopping, the BTS or underlay TRXs must be locked.

Range: 0..62

Value 0 detaches the BTS from any mobile allocation frequency list.

MML default: 0

Description: With this parameter you set the lowest MAIO value of the underlay layer per sector.

Related command(s): EQA, EQO, EFO

Note: OPTIONAL ((Intelligent Underlay Overlay OR Intelligent Coverage Enhancement) AND Intelligent Frequency Hopping)

5.183 underlay MAIO step (UMS)

GSM reference: No ref.

Q3 name: underlayMaioStep

Modification: If the BTS is RF hopping, the BTS or underlay TRXs must be locked.

Range: 1..62

MML default: 1

Description: With this parameter you choose the MAIOs of the underlay layer not to be allocated successively for the cell, but for instance every second or every third value.

Related command(s): EQA, EQO, EFO

Note: OPTIONAL ((Intelligent Underlay Overlay OR Intelligent Coverage Enhancement) AND Intelligent Frequency Hopping AND Flexible MAIO management)

5.184 underlay mobile allocation frequency list (UMAL)

GSM reference: No ref.

Q3 name: underlayMA

Modification: If BTS is RF hopping, the BTS must be locked.

Range: 0..255

Value 0 detaches the BTS from any mobile allocation frequency list.

MML default: No MA list attached

Description: With this parameter you define the mobile allocation frequency list to which the BTS's underlay layer will be attached.

Related command(s): EQA, EQO, EFO, EBI, ERO

Note: OPTIONAL ((Intelligent Underlay Overlay OR Intelligent Coverage Enhancement) AND Intelligent Frequency Hopping)

5.185 upper limit for FR TCH resources (FRU)

GSM reference: No ref.

Q3 name: btsSpLoadDepTCHRate

Modification: Online

Range: 0..100 (%)

MML default: 0

Description: With this parameter you define the percentage of full rate TCH resources that must be available for traffic channel allocation. Full rate TCHs are again allocated when the number of the free full rate resources increases above the threshold given by the parameter.

Related command(s):	EQM, EQO
Note:	OPTIONAL (Half Rate)

6 Adjacent GSM cell (ADJC)

6.1 adjacent cell identification

GSM reference:	I-ETS 300 022-1 (GSM 04.08) I-ETS 300 022-1 (GSM 04.08)
Q3 name:	adjacentCellId
Modification:	Online
Range:	LAC 0..65535 CI 0..65535
MML default:	-
Description:	The parameter contains the identification of an adjacent cell. The identification consists of the Cell Identification and the Location Area Code.
Related command(s):	EAC, EAD, EAO, EAM

6.2 adjacent cell layer (ACL)

GSM reference:	No ref.
Q3 name:	adjCellLayer
Modification:	Online
Range:	N (not in use) SAME UPPER LOWER

MML default: N

Description: With this parameter you define the adjacent cell layer in relation to the active cell. A call can be handed over to the cells that are visible to the serving cell by adjacency definition. This means the cells of upper layer, serving layer and lower layer. The adjacent cell layer definition can be used, for example, in umbrella and power budget handovers in defining the target cells according to their layer.

Related command(s): EAC, EAM, EAO

Note: OPTIONAL (Fast moving MS handling in macro cell)

6.3 adjacent GPRS enabled (AGENA)

GSM reference: No ref.

Q3 name: GPRSEnabled

Modification: Online

Range: Y..N

MML default: N

Description: With this parameter you define whether the GPRS capability is enabled or disabled in the adjacent cell. In the adjacent cell creation if this parameter is not given and the SEG and the adjacent cell are in the same BSS, the value of this parameter is copied from the SEG

Related command(s): EAC, EAM, EAO

Note: Optional (Gb Interface functionality)

6.4 AMR target cell of direct access to desired layer (DADLA)

GSM reference: No ref.

Q3 name: amrDadlbTargetCell

Modification: Online

Range:	Y..N
MML default:	N
Description:	With this parameter you define whether the direct access to desired layer/band handover is applied to the adjacent cell in case of AMR call establishment.
Related command(s):	EAM, EAO
Note:	Optional (Direct Access to Desired Layer/Band and AMR Codec)

6.5 background BCCH frequency (BFREQ)

GSM reference:	No ref.
Q3 name:	backgroundDBAttributes: bCCHFrequency
Modification:	Online
Range:	GSM 800: 128...251 or ND GSM 900: 1..124 and 975..1023, 0 GSM 1800: 512..885 GSM 1900: 512..810 DUAL <option>: 1..124, 512..885 and 975..1023, 0 ND not defined
MML default:	-
Description:	With this parameter you define the BCCH frequency of an adjacent cell used as background data. In background data activation (EE command group), background data is swapped with active data.
Related command(s):	EAM, EAO

6.6 background BTS colour code (BBCC)

GSM reference:	No ref.
Q3 name:	backgroundDBAttributes: bsIdentityCode
Modification:	Online

Range:	0..7 ND (not defined)
MML default:	-
Description:	With this parameter you define the BTS colour code used as background data. In background data activation (EE command group), background data is swapped with active data.
Related command(s):	EAM, EAO

6.7 background interfered cell (BIC)

GSM reference:	No ref.
Q3 name:	backgroundDBAttributes: interferedCell
Modification:	Online
Range:	0 (no interference) 1 (interference on regular frequencies) 2 (interference on super-reuse frequencies) 3 (interference on regular and super-reuse frequencies) ND (not defined)
MML default:	-
Description:	With this you define the background parameter for *interfered cell* . In background data activation (EE command group), background data is swapped with active data.
Related command(s):	EAM, EAO
Note:	OPTIONAL (Dynamic Hotspot)

6.8 background network colour code (BNCC)

GSM reference:	No ref.
Q3 name:	backgroundDBAttributes: bsIdentityCode
Modification:	Online

Range:	0..7 ND (not defined)
MML default:	-
Description:	With this parameter you define the network colour code number used as background data. In background data activation (EE command group), background data is swapped with active data.
Related command(s):	EAM, EAO

6.9 BCCH frequency (FREQ)

GSM reference:	I-ETS 300 022-1 (GSM 04.08)
Q3 name:	bCCHFrequency
Modification:	Online
Range:	GSM 800: 128...251 GSM 900: 1..124 and 975..1023, 0 GSM 1800: 512..885 GSM 1900: 512..810 DUAL 900/1800 <option>: 1...124, 512...885 or 975...1023, 0 DUAL 800/1900 <option>: 128...251 or 512...810
MML default:	-
Description:	With this parameter you define the BCCH frequency of an adjacent cell.
Related command(s):	EAC, EAM, EAO
Note:	The *frequency* (FREQ) parameter of BCCH TRX in an adjacent cell must be the same.

6.10 BTS colour code (BCC)

GSM reference:	I-ETS 300 022-1 (GSM 04.08)
Q3 name:	bsIdentityCode

Modification:	Online
Range:	0..7
MML default:	-
Description:	With this parameter you define the BTS colour code number.
Related command(s):	EAC, EAM, EAO
Note:	The BSIC parameter, which is used to identify the BTS, is composed of the NCC and BCC parameters. BSIC must be equal to the BSIC parameter of adjacent BTS.

6.11 cell identification of reference cell (CI1-CI5)

GSM reference:	No ref.
Q3 name:	referCell
Modification:	Online
Range:	0..65535
MML default:	-
Description:	With this parameter you identify the reference cell.
Related command(s):	EAX, EAO
Note:	OPTIONAL (C/I Based Handover Candidate Evaluation)

6.12 cell type (CTY)

GSM reference:	No ref.
Q3 name:	cellType
Modification:	Online
Range:	GSM MCN
MML default:	GSM

Description:	With this parameter you define the adjacent cell type.
Related command(s):	EAC, EAM, EAO
Note:	The *cell type* parameter of the adjacent cell must be the same. OPTIONAL (Intelligent Directed Retry (IDR))

6.13 chained adj cell (CHAIN)

GSM reference:	No ref.
Q3 name:	chainedAdjacentCell
Modification:	Online
Range:	Y/N
MML default:	N
Description:	With this parameter you define the adjacent cell as a chained cell, to which the rapid field drop handover criteria are applied.
Related command(s):	EAC, EAM, EAO
Note:	OPTIONAL (Chained cells in rapid field drop)

6.14 C/I estimation weight (W1-W5)

GSM reference:	No ref.
Q3 name:	ciEstWeight
Modification:	Online
Range:	0..10
MML default:	1
Description:	With this parameter you define the weighting coefficient of the reference cell. The value 0 detaches the corresponding reference cell from the adjacent cell.
Related command(s):	EAX, EAO

Note:	OPTIONAL (C/I Based Handover Candidate Evaluation)

6.15 Directed Retry threshold (DRT)

GSM reference:	No ref.
Q3 name:	drThreshold
Modification:	Online
Range:	-110 .. -47 (dBm)
MML default:	-100
Description:	With this parameter you define the threshold value of the signal strength in the adjacent cell for the Directed Retry procedure. If the signal strength level in the cell is lower than this threshold value, adjacent cell is not accepted as a candidate in directed retry.
Related command(s):	EAC, EAM, EAO
Note:	OPTIONAL (Directed Retry OR Intelligent Directed Retry (IDR))

6.16 enable HO margin lev qual (MRGS)

GSM reference:	No ref.
Q3 name:	enableHoMarginLevQual
Modification:	Online
Range:	Y/N
MML default:	Y
Description:	With this parameter you define whether the handover margins for signal level and quality will be taken into account in the handover decision algorithm.
Related command(s):	EAM, EAO

6.17 fast moving threshold (FMT)

GSM reference:	No ref.
Q3 name:	fastMovingThreshold
Modification:	Online
Range:	0..255 (SACCH frames)
MML default:	0 (not in use)
Description:	With this parameter you define the limit which is compared with the identification counter (fast moving MS) in the adjacent cell. If the limit is exceeded, the call is handed over from the macrocell to the best microcell.
Related command(s):	EAC, EAM, EAO
Note:	OPTIONAL (Fast moving MS handling in macro cell)

6.18 GPRS cell barred (GBAR)

GSM reference:	GSM 04.60
Q3 name:	GPRSCellBarred
Modification:	Online
Range:	0 .. 1
MML default:	0
Description:	With this parameter you combine the cell barred (BAR) and cell bar qualify (QUA) parameters and indicate the status for cell reselection. In the same BSS, the value of this parameter is copied from the SEG.
Related command(s):	EAC, EAM, EAO
Note:	Optional (Gb Interface functionality)

6.19 GPRS MS TX pwr max CCH (GTXP1)

GSM reference:	3GPP TS 04.60, 05.08
Q3 name:	gprsMsTxpwrMaxCCH
Modification:	Online
Range:	5...43 dBm with 2 dBm step
MML default:	33
Description:	With this parameter you define the maximum transmission power an MS may use when accessing a packet control channel in the adjacent cell. This is used when BCCH is in GSM 900 or GSM 800 frequency band.
Related command(s):	EAC, EAM, EAO
Note:	Optional (BSC_GPRS_PARAM_ENABLED)

6.20 GPRS MS TX pwr max CCH1x00 (GTXP2)

GSM reference:	3GPP TS 04.60, 05.08
Q3 name:	gprsMsTxPwrMaxCCH1x00
Modification:	Online
Range:	For GSM 1800 0...36 dBm with 2 dBm step For GSM 1900 0...32 dBm with 2 dBm step and 33 dBm
MML default:	30
Description:	With this parameter you define the maximum transmission power an MS may use when accessing a packet control channel in the adjacent cell. This is used when BCCH is in GSM 1900 or GSM 1800 frequency band.
Related command(s):	EAC, EAM, EAO
Note:	Optional (BSC_GPRS_PARAM_ENABLED)

6.21 GPRS penalty time (GPET)

GSM reference:	GSM 04.60
Q3 name:	GPRSPenaltyTime
Modification:	Online
Range:	10 .. 320 (s) with a step size of 10 s
MML default:	10 s
Description:	With this parameter you define the duration for which the GPRS temporary offset (GTEO) applies.
Related command(s):	EAC, EAM, EAO
Note:	Optional (Gb Interface functionality)

6.22 GPRS reselect offset (GREO)

GSM reference:	GSM 04.60
Q3 name:	GPRSReselectOffset
Modification:	Online
Range:	-52, -48,..., -12, -10,..., 12, 16, ...,48 (dB)
MML default:	0 dB
Description:	With this parameter you define the offset of the C32 reselection criterion for a adjacent cell.
Related command(s):	EAC, EAM, EAO
Note:	Optional (Gb Interface functionality)

6.23 GPRS rxlev access min (GRXP)

GSM reference:	GSM 04.60
Q3 name:	GPRSRxLevAccessMin
Modification:	Online

Range:	-110 .. -47 (dBm)
MML default:	-105 dBm
Description:	With this parameter you define the minimum power level an MS has to receive before it is allowed to access the adjacent cell.
Related command(s):	EAC, EAM, EAO
Note:	Optional (Gb Interface functionality)

6.24 GPRS temporary offset (GTEO)

GSM reference:	GSM 04.60
Q3 name:	GPRSTemporaryOffset
Modification:	Online
Range:	0 .. 70 dB with a step size of 10 dB
MML default:	0 dB
Description:	With this parameter you define the negative offset of the C32 reselection criterion for the duration of the GPRS penalty time (GPET) after the MS has placed the cell on the list of the strongest carriers. It is used by the mobile station as part of its calculation of C32 for the cell reselection process.
Related command(s):	EAC, EAM, EAO
Note:	Optional (Gb Interface functionality)

6.25 HCS signal level threshold (HCS)

GSM reference:	GSM 04.60
Q3 name:	hcsThreshold
Modification:	Online
Range:	-110, -108, … , -48 (dB) and N
MML default:	N

Description:	With this parameter you define the signal strength threshold for applying HCS in GPRS reselection. If this parameter is not given In the adjacent cell creation and the SEG and the adjacent cell are in the same BSS, the value of this parameter is copied from the SEG.
Related command(s):	EAC, EAM, EAO
Note:	Optional (Gb Interface functionality)

6.26 HO level umbrella (AUCL)

GSM reference:	No ref.
Q3 name:	hoLevelUmbrella
Modification:	Online
Range:	-110..-47 (dBm)
MML default:	-47
Description:	With this parameter you define the minimum signal level of an adjacent cell, when a handover is allowed to an adjacent umbrella cell.
Related command(s):	EAC, EAM, EAO

6.27 HO load factor (OF)

GSM reference:	No ref.
Q3 name:	hoLoadFactor
Modification:	Online
Range:	0..7
MML default:	1
Description:	With this parameter you define how much the priority of the target BTS will be decreased if the BTS is overloaded. The parameter is used only for the BTSs under one BSC because the BSC cannot get information about the loading of other BTSs.

Related command(s):	EAC, EAM, EAO
Note:	The *HO load factor* cannot be greater than the *HO priority level* .

6.28 HO margin lev (LMRG)

GSM reference:	No ref.
Q3 name:	hoMarginLev
Modification:	Online
Range:	-24..24 (dB) (1 dB step size)
MML default:	3
Description:	With this parameter you define a threshold for a handover caused by signal level.
Related command(s):	EAC, EAM, EAO

6.29 HO margin pbgt (PMRG)

GSM reference:	No ref.
Q3 name:	hoMarginPBGT
Modification:	Online
Range:	-24..63 (dB) (1 dB step size)
MML default:	6
Description:	With this parameter you define a threshold in the power budget process. The handover margin prevents repeated handover between adjacent cells.
Related command(s):	EAC, EAM, EAO

6.30 HO margin qual (QMRG)

GSM reference:	No ref.
Q3 name:	hoMarginQual
Modification:	Online
Range:	-24..24 (dB) (1 dB step size)
MML default:	0
Description:	With this parameter you define a threshold for a handover caused by signal quality.
Related command(s):	EAC, EAM, EAO

6.31 HO priority level (PRI)

GSM reference:	I-ETS 300 034-1 (GSM 05.08)
Q3 name:	hoPriorityLevel
Modification:	Online
Range:	0..7
MML default:	3
Description:	With this parameter you define the priority level for an adjacent cell. The priority level is used for target cell evaluation by the handover control process. By using priority levels for the handover algorithm, it is possible to take into account the location of the adjacent cell.
Related command(s):	EAC, EAM, EAO

6.32 HO target area (HOTA)

GSM reference:	No ref.
Q3 name:	hoTargetArea
Modification:	Online

Range: See the table below.

MML default: 0

Description: With this parameter you define whether the adjacent cell is a normal or an extended cell.

The meanings of the HOTA values are:

0 ... Normal cell or Nokia 2nd generation extended cell.

1 ... Nokia UltraSite or Nokia Talk-family extended cell, BSC tries to allocate a new channel from a normal transceiver (N-TRX).

2 ... Nokia UltraSite or Nokia Talk-family extended cell, BSC tries to allocate a new channel from an extended transceiver (E-TRX).

3 ... Nokia UltraSite or Nokia Talk-family extended cell, BSC tries to allocate a new channel from a transceiver that is of the same type than the transceiver where the call exists.

Related command(s): EAC, EAM, EAO, EAT

Note: OPTIONAL (Improved solution for extended range cell)

You can check the values of the *HO target area* parameter with the EAT command.

Table 1. Value range of the HO target area parameter by BTS site type

BTS site type (source)	BTS site type (adjacent cell)	HO target area
Nokia 2nd generation, Nokia Talk-family, Nokia PrimeSite, Nokia MetroSite, Nokia InSite or Nokia UltraSite	Nokia 2nd generation, Nokia PrimeSite, Nokia MetroSite or Nokia InSite	0
Nokia 2nd generation, Nokia PrimeSite, Nokia MetroSite or Nokia InSite	Nokia Talk-family or Nokia UltraSite	0,1,2
Nokia Talk-family or Nokia UltraSite	Nokia Talk-family or Nokia UltraSite	0,1,2,3

6.33 interfered cell (IC)

GSM reference: No ref.

Q3 name: interferedCell

Modification:	Online
Range:	0 (no interference) 1 (interference on regular frequencies) 2 (interference on super-reuse frequencies) 3 (interference on regular and super-reuse frequencies)
MML default:	0
Description:	With this parameter you define whether or not a BTS to which an adjacent cell is being defined is likely to cause interference in the adjacent cell.
Related command(s):	EAC, EAM, EAO
Note:	OPTIONAL (Dynamic Hotspot)

6.34 level adjustment (L1-L5)

GSM reference:	No ref.
Q3 name:	levelAdjustment
Modification:	Online
Range:	-63..63 (dB)
MML default:	0
Description:	With this parameter you define the difference in signal levels between the actual co-frequency cell of the handover candidate and the reference cell which simulates the co-frequency cell.
Related command(s):	EAX, EAO
Note:	OPTIONAL (C/I Based Handover Candidate Evaluation)

6.35 location area code of reference cell (LAC1-LAC5)

GSM reference:	No ref.
Q3 name:	-
Modification:	Online

Range:	0..65535
MML default:	-
Description:	With this parameter you define the location area number of the reference cell.
Related command(s):	EAX, EAO
Note:	OPTIONAL (C/I Based Handover Candidate Evaluation)

6.36 MS pwr opt level (POPT)

GSM reference:	No ref.
Q3 name:	msPwrOptLevel
Modification:	Online
Range:	-110..-47 (dBm) N (no optimisation)
MML default:	N
Description:	With this parameter you define the optimum uplink RF signal level after a handover on a channel in the adjacent cell. If optimisation is enabled, the parameter indicates also the desirable uplink signal level after the handover. The optimisation procedure works only for intra-BSC handovers. The BSC presumes that the uplink signal level and the downlink signal level are in balance within the coverage area of the adjacent cell. If the downlink signal is, for example, 5 dB stronger than the uplink signal, set the value for this parameter 5dB higher than the desirable uplink signal level.
Related command(s):	EAC, EAM, EAO
Note:	OPTIONAL (Optimization of the MS Power Level in Handovers)

6.37 MS TX pwr max gsm (PMAX1)

GSM reference:	GSM 05.08
Q3 name:	msTxPwrMaxGSM

Modification:	Online
Range:	For GSM 800 and GSM 900: 5..43 dBm
MML default:	33
Description:	With this parameter you define the maximum transmission power of the MS for each adjacent cell. This parameter replaces old ms_txpwr_max_cell parameter.
Related command(s):	EAC, EAM, EAO

6.38 MS TX pwr max gsm1x00 (PMAX2)

GSM reference:	GSM 05.08
Q3 name:	msTxPwrMaxGSM1x00
Modification:	Online
Range:	For GSM 1800 0...36 dBm with 2 dBm step For GSM 1900 0...32 dBm with 2 dBm step and 33 dBm
MML default:	30
Description:	With this parameter you define the maximum transmission power of the MS for each adjacent cell.
Related command(s):	EAC, EAM, EAO

6.39 network colour code (NCC)

GSM reference:	I-ETS 300 022-1 (GSM 04.08)
Q3 name:	bsIdentityCode
Modification:	Online
Range:	0..7
MML default:	-
Description:	With this parameter you define the network colour code number.

Related command(s): EAC, EAM, EAO

Note: The BSIC parameter, which is used to identify the BTS, is composed of the parameters NCC and BCC. BSIC must be equal to BSIC parameter of the adjacent BTS.

6.40 priority class (PRC)

GSM reference: GSM 04.60

Q3 name: hcsPriorityClass

Modification: Online

Range: 0 .. 7

MML default: 0

Description: With this parameter you define the HCS (hierarchical cell structures) priority for the cells. 0 is the lowest and 7 is the highest priority. In the adjacent cell creation if this parameter is not given and the SEG and the adjacent cell are in the same BSS, the value of this parameter is copied from the SEG.

Related command(s): EAC, EAM, EAO

Note: Optional (Gb Interface functionality)

6.41 routing area code (RAC)

GSM reference: GSM 04.60

Q3 name: rac

Modification: Online

Range: 0 .. 255

MML default: 255

Description: With this parameter you define the routing area code in the adjacent cell. In the adjacent cell creation if this parameter is not given and the SEG and the adjacent cell are in the same BSS, the value of this parameter is copied from the SEG.

Related command(s):	EAC, EAM, EAO
Note:	Optional (Gb Interface functionality)

6.42 RX lev min cell (SL)

GSM reference:	No ref.
Q3 name:	rxLevMinCell
Modification:	Online
Range:	-110..-47 (dBm)
MML default:	-100
Description:	With this parameter you define the minimum signal level of an adjacent cell, when a handover is allowed to one of them.
Related command(s):	EAC, EAM, EAO

6.43 synchronized (SYNC)

GSM reference:	I-ETS 300 022-1 (GSM 04.08)
Q3 name:	synchronized
Modification:	Online
Range:	Y/N
MML default:	N
Description:	With this parameter you define whether the adjacent cell is synchronized with the cell in use. When defining adjacencies between the sectors of Nokia PrimeSite, the value of parameter *synchronized* must be N (not synchronized). This is because the sectors of Nokia PrimeSite are not synchronized with each other in a fault case, when the system has set the sectors to minimum configuration.
Related command(s):	EAC, EAM, EAO

6.44 target cell of direct access to desired layer (DADL)

GSM reference:	No ref.
Q3 name:	dadlbTargetCell
Modification:	Online
Range:	Y/N
MML default:	N
Description:	With this parameter you define whether the direct access to desired layer/band handover is applied to the adjacent cell.
Related command(s):	EAC, EAM, EAO
Note:	OPTIONAL (Direct Access to Desired Layer/Band)

6.45 TRHO target level (TRHO)

GSM reference:	No ref.
Q3 name:	trhoTargetLevel
Modification:	Online
Range:	-109..-47 (dBm) N (not in use)
MML default:	N
Description:	With this parameter you define the minimum signal level when a traffic reason handover is allowed to an adjacent cell.
Related command(s):	EAC, EAM, EAO

7 Adjacent WCDMA RAN cell (UADJC), optional (ISHO_SUPPORT_IN_BSC)

7.1 adjacent cell index (INDEX)

GSM reference:	No ref.
Q3 name:	ucellIndex
Modification:	No
Range:	0..31
MML default:	–
Description:	With this parameter you define the adjacent cell index for the adjacent WCDMA RAN cell. The index value is unambigous under a serving GSM cell.
Related command(s):	EAE, EAH, EAG, EAI

7.2 cell identification (CI)

GSM reference:	3GPP 08.08, 23.003, 25.413
Q3 name:	cId
Modification:	Online
Range:	1..65535
MML default:	–
Description:	With this parameter you define the cell number for the adjacent WCDMA RAN cell.

Related command(s):	EAE, EAH, EAI

7.3 downlink transmission diversity (DIV)

GSM reference:	3GPP 04.18, 04.60
Q3 name:	txDiversityInd
Modification:	Online
Range:	Y/N
MML default:	N
Description:	With this parameter you define whether the downlink transmission diversity capability of the logical node that is controlling the adjacent WCDMA RAN cell is used or not.
Related command(s):	EAE, EAH, EAI

7.4 location area code (LAC)

GSM reference:	3GPP 04.18, 8.08, 24.008, 23.003
Q3 name:	locationAreaId::lac
Modification:	Online
Range:	1..65535 (except 65534)
MML default:	–
Description:	With this parameter you define the location area that the adjacent WCDMA RAN cell belongs to.
Related command(s):	EAE, EAH, EAI

7.5 minimum CPICH Ec/Io level (MET)

GSM reference:	3GPP 25.133
Q3 name:	minEcnoThreshold
Modification:	Online
Range:	-24 .. 0.5 dB with 0.5 dB steps
MML default:	-15
Description:	With this parameter you define the minimum CPICH Ec/Io level of an adjacent WCDMA RAN cell for an inter-system handover attempt. The threshold level must be exceeded before the BSC is allowed to trigger a handover attempt towards the adjacent WCDMA RAN cell.
Related command(s):	EAE, EAH, EAI
Note:	The value 0.5 dB of this parameter means that the BSC is never allowed to initiate a handover attempt from the serving GSM cell towards the WCDMA RAN cell because a CPICH Ec/Io level measured by mobiles can be maximum 0 dB.

7.6 mobile country code (MCC)

GSM reference:	3GPP 04.08, 08.08, 24.008, 23.003
Q3 name:	locationAreaId::mcc
Modification:	Online
Range:	0..999
MML default:	MCC value of the serving GSM cell
Description:	With this parameter you define the mobile country code number for the adjacent WCDMA RAN cell.
Related command(s):	EAE, EAH, EAI

7.7 mobile network code (MNC)

GSM reference:	3GPP 04.08, 08.08, 24.008, 23.003
Q3 name:	locationAreaId::mnc
Modification:	Online
Range:	0..9, (if single-digit MNC is given, the preceding digits will have value 0xF which means that those digits are "not defined") 00..99, (if 2-digit MNC is given, the preceding digit will have value 0xF which means that digit is "not defined") 000...999, (3-digit MNC is stored such as it has been given by user)
MML default:	MNC value of the serving GSM cell
Description:	With this parameter you define the mobile network code number for the adjacent WCDMA RAN cell.
Related command(s):	EAE, EAH, EAI

7.8 radio network controller identifier (RNC)

GSM reference:	3GPP 08.08, 23.003, 25.413
Q3 name:	rncId
Modification:	Online
Range:	1..4095
MML default:	–
Description:	With this parameter you define the radio network controller that controls the adjacent WCDMA RAN cell on the WCDMA RAN network.
Related command(s):	EAE, EAH, EAI

7.9 scrambling code (SCC)

GSM reference:	3GPP 04.08, 24.008, 04.60
Q3 name:	scramblingCode
Modification:	Online
Range:	0..511
MML default:	–
Description:	With this parameter you define the downlink scrambling code of the primary common pilot channel of the adjacent WCDMA RAN cell.
Related command(s):	EAE, EAH, EAI

7.10 service area code (SAC)

GSM reference:	3GPP 08.08, 23.003, 25.413
Q3 name:	sac
Modification:	Online
Range:	0..65535
MML default:	–
Description:	With this parameter you define the service area the adjacent WCDMA RAN cell belongs to.
Related command(s):	EAE, EAH, EAI

7.11 WCDMA downlink carrier frequency (FREQ)

GSM reference:	3GPP 04.18, 04.60, 25.101, 24.008, 25.331
Q3 name:	uarfcn
Modification:	Online
Range:	0..16383

MML default:	–
Description:	With this parameter you define the downlink carrier frequency of the adjacent WCDMA RAN cell. The frequency must be given as the UTRAN Absolute Radio Frequency Channel Number (UARFCN).
Related command(s):	EAE, EAH, EAI

8 Handover control (HOC)

8.1 adjacent cell averaging window size (AWS)

GSM reference:	No ref.
Q3 name:	averagingWindowSizeAdjCell
Modification:	Online
Range:	1..32
MML default:	6 (SACCH Periods)
Description:	With this parameter you define the window size for averaging the signal quality, signal level and distance measurement results.
Related command(s):	EHC, EHN, EHO

8.2 adjacent WCDMA RAN cell averaging window size (UAWS)

GSM reference:	No ref.
Q3 name:	utranAveragingNumber
Modification:	Online
Range:	1..32
MML default:	6 (SACCH Periods)
Description:	With this parameter you define the window size for averaging the signal quality, signal level and distance measurement results that are adjacent WCDMA RAN cell related.

Related command(s):	EHN, EHO
Note:	Optional (ISHO_SUPPORT_IN_BSC)

8.3 all adjacent cells averaged (AAC)

GSM reference:	No ref.
Q3 name:	allAdjacentCellsAveraged
Modification:	Online
Range:	Y (all adjacent cells) N (the six best adjacent cells)
MML default:	N
Description:	With this parameter you indicate whether the signal measurement results will be averaged for all adjacent cells, or only for the six best adjacent cells.
Related command(s):	EHC, EHN, EHO

8.4 all adjacent WCDMA RAN cells averaged (UAAC)

GSM reference:	No ref.
Q3 name:	allUtranAdjAver
Modification:	Online
Range:	Y (all adjacent WCDMA RAN cells) N (the three best adjacent WCDMA RAN cells)
MML default:	N
Description:	With this parameter you indicate whether the signal measurement results will be averaged for all adjacent WCDMA RAN cells, or only for the three best adjacent WCDMA RAN cells.
Related command(s):	EHN, EHO
Note:	Optional (ISHO_SUPPORT_IN_BSC)

8.5 all interfering cells averaged (AVER)

GSM reference:	No ref.
Q3 name:	allInterfCellsAveraged
Modification:	Online
Range:	Y/N
MML default:	N
Description:	With this parameter you indicate whether measurement results will be averaged for all interfering cells (value Y), or only for those interfering cells which are among the six best neighbouring cells received in the last measurement result message (value N).
Related command(s):	EHC, EHY, EHO
Note:	OPTIONAL (Intelligent Underlay Overlay)

8.6 AMH traffic control IUO (ATCI)

GSM reference:	No ref.
Q3 name:	amhTrafficControlIUO
Modification:	Online
Range:	Y/N
MML default:	N
Description:	With this parameter you indicate whether the Advanced Multilayer Handling is used with Intelligent Underlay-Overlay.
Related command(s):	EHC, EHG, EHO
Note:	OPTIONAL (Advanced Multilayer Handling, AMH)

8.7 AMH traffic control MCN (ATCM)

GSM reference:	No ref.
Q3 name:	amhTrafficControlMCN
Modification:	Online
Range:	Y/N
MML default:	N
Description:	With this parameter you indicate whether the Advanced Multilayer Handling is used with micro cells or dual band.
Related command(s):	EHC, EHG, EHO
Note:	OPTIONAL (Advanced Multilayer Handling, AMH)

8.8 AMH TRHO pbgt margin (ATPM)

GSM reference:	No ref.
Q3 name:	amhTrhoPbgtMargin
Modification:	Online
Range:	-24 .. 24 (dBm) or N
MML default:	N (not active)
Description:	With this parameter you define the power budget margin used in Advance Multilayer Handling when the load of the cell exceeds the value defined with the *amh upper load threshold* <option> (AUT) parameter of the EEM command.
Related command(s):	EHC, EHG, EHO
Note:	OPTIONAL (Advanced Multilayer Handling, AMH)

8.9 C/I estimation method

GSM reference:	No ref.
Q3 name:	ciEstMethod
Modification:	Online
Range:	AVE (average taking method used) MAX (maximum taking method used) NONE (estimation methods not in use)
MML default:	NONE
Description:	With this parameter you identify the C/I estimation method, which is used for calculating the co-channel interference level of the handover candidate.
Related command(s):	EHX, EHO
Note:	OPTIONAL (C/I Based Handover Candidate Evaluation)

8.10 count of successive rapid field drop thresholds (CNT)

GSM reference:	No ref.
Q3 name:	hoThresholdsRapidLevUIN
Modification:	Online
Range:	0..32
MML default:	0 (HO disabled)
Description:	With this parameter you define how many successive rapid field drop thresholds have to be triggered before a call will be handed over to a chained adjacent cell.
Related command(s):	EHC, EHS, EHO
Note:	OPTIONAL (Chained cells in rapid field drop)

8.11 deep dropping edge monitoring window (ERMW)

GSM reference:	No ref.
Q3 name:	ddeWindow
Modification:	Online
Range:	1..32 SACCH frames
MML default:	2
Description:	With this parameter you define the number of SACCH frames that the deep dropping edge is checked against.
Related command(s):	EHC, EHS, EHO
Note:	OPTIONAL (Enhanced Rapid Field Drop)

8.12 enable enhanced rapid field drop (ERFD)

GSM reference:	No ref.
Q3 name:	erfdEnabled
Modification:	Online
Range:	DIS (enhanced rapid field drop is disabled) UL (rapid field drop detection is based on uplink measurements) DL (rapid field drop detection is based on downlink measurements) UDL (rapid field drop detection is based on both uplink and downlink measurements)
MML default:	DIS
Description:	With this parameter you indicate when the Enhanced Rapid Field Drop feature is enabled.
Related command(s):	EHC, EHS, EHO
Note:	OPTIONAL (Enhanced Rapid Field Drop)

8.13 enable fast averaging call setup (EFA)

GSM reference:	No ref.
Q3 name:	enaFastAveCallSetup
Modification:	Online
Range:	Y/N
MML default:	N
Description:	With this parameter you indicate whether the Fast Handover Measurement Averaging Method is enabled in the call setup phase in the SDCCH channel.
Related command(s):	EHC, EHG, EHO

8.14 enable fast averaging HO (EFH)

GSM reference:	No ref.
Q3 name:	enaFastAveHO
Modification:	Online
Range:	Y/N
MML default:	N
Description:	With this parameter you indicate whether the Fast Handover Measurement Averaging Method is enabled after handovers and in the new TCH.
Related command(s):	EHC, EHG, EHO

8.15 enable fast averaging PC (EFP)

GSM reference:	No ref.
Q3 name:	enaFastAvePC
Modification:	Online
Range:	Y/N

MML default:	N
Description:	With this parameter you indicate whether the Fast Handover Measurement Averaging Method after power control is enabled.
Related command(s):	EHC, EHG, EHO

8.16 enable inter FRT handover (EFHO)

GSM reference:	No ref.
Q3 name:	enableInterFrtIuoHo
Modification:	Online
Range:	REG (handover between super-reuse frequency groups is enabled, but a handover back to a regular frequency group is always preferable) SUP (handover between super-reuse frequency groups is enabled and it is preferable in case of bad C/I ratio) DIS (handover between super-reuse frequency groups is disabled)
MML default:	DIS
Description:	With this parameter you indicate whether a handover between super-reuse frequency groups is enabled in situations when a handover to a regular TRX is not possible.
Related command(s):	EHC, EHY, EHO
Note:	OPTIONAL (Intelligent Underlay Overlay)

8.17 enable intracell handover interference UL (EIC)

GSM reference:	No ref.
Q3 name:	enableIntracellHandover, enableIntraHoInterUL
Modification:	Online
Range:	Y/N
MML default:	Y

Description:	With this parameter you indicate whether an intracell handover caused by uplink interference is enabled. The parameter does not affect handovers between normal and extended areas.
Related command(s):	EHC, EHG, EHO

8.18 enable intracell handover interference DL (EIH)

GSM reference:	No ref.
Q3 name:	enableIntracellHandover, enableIntraHoInterDL
Modification:	Online
Range:	Y/N
MML default:	Y
Description:	With this parameter you indicate whether an intracell handover caused by downlink interference is enabled. The parameter does not affect handovers between normal and extended areas.
Related command(s):	EHC, EHG, EHO

8.19 enable ms distance process (EMS)

GSM reference:	No ref.
Q3 name:	enableMSDistanceProcess
Modification:	Online
Range:	Y/N
MML default:	N
Description:	With this parameter you indicate whether the BTS - MS distance process is enabled.
Related command(s):	EHC, EHG, EHO
Note:	If "Y" check the *ms distance behaviour* parameter (a BSC specific parameter).

8.20 enable power budget handover (EPB)

GSM reference:	No ref.
Q3 name:	enablePwrBudgetHandover
Modification:	Online
Range:	Y/N
MML default:	Y
Description:	With this parameter you indicate whether the BTS power budget handover control is enabled.
Related command(s):	EHC, EHG, EHO

8.21 enable SDCCH handover (ESD)

GSM reference:	No ref.
Q3 name:	enableSDCCHHandover
Modification:	Online
Range:	Y/N
MML default:	N
Description:	With this parameter you indicate whether the BTS SDCCH handover is enabled.
Related command(s):	EHC, EHG, EHO
Note:	OPTIONAL (SDCCH Handover)

8.22 enable TCH assignment super IUO (ETA)

GSM reference:	No ref.
Q3 name:	enaTchAssSuperIUO
Modification:	Online

Range:	0..32 (SACCH periods)
MML default:	0
Description:	With this parameter you indicate whether the TCH assignment to a super-reuse TRX is enabled in IUO and what the BSIC (Base Station Identity Code) decoding time in SDCCH is. The value zero means that TCH assignment to super-reuse TRX is disabled.
Related command(s):	EHC, EHY, EHO
Note:	OPTIONAL (Intelligent Underlay Overlay AND Directed Retry)

8.23 enable umbrella handover (EUM)

GSM reference:	No ref.
Q3 name:	enableUmbrellaHandover
Modification:	Online
Range:	Y/N
MML default:	N
Description:	With this parameter you indicate whether the BTS umbrella handover is enabled.
Related command(s):	EHC, EHG, EHO

8.24 enhanced rapid field drop duration (ERD)

GSM reference:	No ref.
Q3 name:	erfdOver
Modification:	Online
Range:	0..64 (s)
MML default:	10
Description:	With this parameter you define how long the modified averaging window is being used after the deep dropping edge in serving cell signal is detected.

Related command(s):	EHC, EHS, EHO
Note:	OPTIONAL (Enhanced Rapid Field Drop)

8.25 handover period power budget (HPP)

GSM reference:	No ref.
Q3 name:	hoPeriodPBGT
Modification:	Online
Range:	0..63
MML default:	6 (SACCH Periods)
Description:	With this parameter you define the interval between power budget handover threshold comparisons.
Related command(s):	EHC, EHG, EHO

8.26 handover period umbrella (HPU)

GSM reference:	No ref.
Q3 name:	hoPeriodUmbrella
Modification:	Online
Range:	0..63
MML default:	6 (SACCH Periods)
Description:	With this parameter you define the interval between umbrella handover threshold comparisons.
Related command(s):	EHC, EHG, EHO

8.27 interfering cell averaging window size (SIZE)

GSM reference:	No ref.
Q3 name:	intfCellAvgWindowSize
Modification:	Online
Range:	1..32
MML default:	10 (SACCH periods)
Description:	With this parameter you define the window size, i.e. the number of consecutive measurement samples, for calculating averaged values from downlink (interfering cell) signal strength measurements for the C/I evaluation procedure.
Related command(s):	EHC, EHY, EHO
Note:	OPTIONAL (Intelligent Underlay Overlay)

8.28 interfering cell number of zero results (ZERO)

GSM reference:	No ref.
Q3 name:	intfCellNbrOfZeroResults
Modification:	Online
Range:	0..31
MML default:	2 (SACCH periods)
Description:	With this parameter you indicate the number of zero results which can be omitted when measurement results of the interfering cells are being averaged for the C/I evaluation procedure.
Related command(s):	EHC, EHY, EHO
Note:	OPTIONAL (Intelligent Underlay Overlay)

8.29 intra HO threshold Rx qual AMR FR (IHRF)

GSM reference:	No ref.
Q3 name:	amrHandoverFr
Modification:	Online
Range:	0..7
MML default:	0
Description:	With this parameter you define the threshold level of the signal quality downlink and uplink measurements for triggering the intra-cell handover process for an AMR FR call in order to switch it to an AMR HR call.
Related command(s):	EHC, EHB, EHO
Note:	OPTIONAL (Intelligent Underlay Overlay and AMR)

8.30 intra HO threshold Rx qual AMR HR (IHRH)

GSM reference:	No ref.
Q3 name:	amrHandoverHr
Modification:	Online
Range:	0..7
MML default:	4 (1.6% - 3.2%)
Description:	With this parameter you define the threshold level of the signal quality downlink and uplink measurements for triggering the intra-cell handover process for an AMR HR call in order to switch it to an AMR FR call.
Related command(s):	EHC, EHB, EHO
Note:	OPTIONAL (Intelligent Underlay Overlay and AMR)

8.31 level downlink window size (LDWS), weighting (LDW)

GSM reference:	No ref.
Q3 name:	hoAveragingLevDL
Modification:	Online
Range:	Window size: 1..32 Weighting: 1..3
MML default:	Window size: 6 (SACCH periods) Weighting: 1
Description:	The parameters calculate averaged values from signal strength downlink measurements. The window size represents the averaging window size in SACCH periods.
Related command(s):	EHA, EHC, EHO

8.32 level uplink window size (LUWS), weighting (LUW)

GSM reference:	No ref.
Q3 name:	hoAveragingLevUL
Modification:	Online
Range:	Window size: 1..32 Weighting: 1..3
MML default:	Window size: 6 (SACCH periods) Weighting: 1
Description:	The parameters calculate averaged values from signal strength uplink measurements. The window size represents the averaging window size in SACCH periods.
Related command(s):	EHA, EHC, EHO

8.33 lower C/I limit for band 1-6 (L1-L6)

GSM reference:	No ref.
Q3 name:	lowerCILimit
Modification:	Online
Range:	-128..127 (dB)
MML default:	L1: 30 L2: 25 L3: 20 L4: 17 L5: 13 L6: 9
Description:	With these parameters you define the estimated co-channel interference level for each of the 6 interference bands. This interference level is compared to the co-channel interference level parameter of the handover candidate to find out the priority adjustment step used.
Related command(s):	EHC, EHX, EHO
Note:	OPTIONAL (C/I Based Handover Candidate Evaluation)

8.34 lower speed limit (LSL)

GSM reference:	No ref.
Q3 name:	lowerSpeedLimit
Modification:	Online
Range:	0..255
MML default:	0
Description:	With this parameter you define the lower speed threshold for an MS. If the speed of the MS is lower than this threshold, the MS will be handed over to a lower layer adjacent cell (if any). One parameter step equals the speed of 2 km/h. If the value is zero, then the lower speed verifying will not be made.
Related command(s):	EHC, EHP, EHO

Note: OPTIONAL (Fast moving MS handling in macro cell)

8.35 min int between HO req (MIH)

GSM reference: No ref.

Q3 name: minIntBetweenHoReq

Modification: Online

Range: 0..31 (s)

MML default: 5

Description: With this parameter you define the minimum interval between handovers related to the same connection.

Related command(s): EHC, EHG, EHO

8.36 min int between unsucc HO attempt (MIU)

GSM reference: No ref.

Q3 name: minIntBetweenUnsuccHoAttempt

Modification: Online

Range: 0..31 (s)

MML default: 3

Description: With this parameter you define the minimum interval between unsuccessful handover attempts related to the same connection.

Related command(s): EHC, EHG, EHO

8.37 min interval between IUO HO req BQ (MIR)

GSM reference:	No ref.
Q3 name:	minIntIuoHoReqBQ
Modification:	Online
Range:	0..255
MML default:	10
Description:	With this parameter you define the minimum time for handover attempt from a regular TRX to a super-reuse TRX. This minimum interval is calculated after a successful HO from this particular super-reuse TRX to a regular TRX, when there has been a bad quality experience in this super-reuse TRX.
Related command(s):	EHC, EHY, EHO
Note:	OPTIONAL (Intelligent Underlay Overlay)

8.38 min interval between unsucc IUO HO (MIO)

GSM reference:	No ref.
Q3 name:	minIntUnsuccIuoHo
Modification:	Online
Range:	0..255
MML default:	20
Description:	With this parameter you indicate the length of time interval between handover attempts when a HO attempt from a regular TRX to a super-reuse TRX has failed.
Related command(s):	EHC, EHY, EHO
Note:	OPTIONAL (Intelligent Underlay Overlay)

8.39 minimum BSIC decode time (TIM)

GSM reference:	No ref.
Q3 name:	minBsicDecodeTime
Modification:	Online
Range:	0..128 (SACCH periods)
MML default:	10
Description:	With this parameter you determine the period after a call set-up or a handover during which the handover to a super-reuse TRX is not possible.
Related command(s):	EHC, EHY, EHO
Note:	OPTIONAL (Intelligent Underlay Overlay)

8.40 min interval between unsucc ISHO attempt (UMIU)

GSM reference:	No ref.
Q3 name:	minIntUnsuccIsHo
Modification:	Online
Range:	0..255 (s)
MML default:	3
Description:	With this parameter you define the minimum length of time interval between inter-system handover attempts related to the same connection and the same non-GSM cell when a handover attempt from the serving GSM cell to a non-GSM cell has been unsuccessful.
Related command(s):	EHN, EHO
Note:	Optional (ISHO_SUPPORT_IN_BSC)

8.41 min traffic load for non-transparent data call (LTNT)

GSM reference:	No ref.
Q3 name:	utranHoThNonTpdc
Modification:	Online
Range:	0..100 %
MML default:	0 (% of serving GSM cell's total traffic capacity)
Description:	With this parameter you define the minimum traffic load that must be exceeded on the serving GSM cell before the handover algorithm is allowed to initiate a handover for a non-transparent data call from the serving GSM cell to a WCDMA RAN cell.
Related command(s):	EHN, EHO
Note:	Optional (ISHO_SUPPORT_IN_BSC)

8.42 min traffic load for speech call (LTSC)

GSM reference:	No ref.
Q3 name:	utranHoThScTpdc
Modification:	Online
Range:	0..100 %
MML default:	80 (% of serving GSM cell's total traffic capacity)
Description:	With this parameter you define the minimum traffic load that must be exceeded on the serving GSM cell before the handover algorithm is allowed to initiate a handover for a speech call or a transparent data call from the serving GSM cell to a WCDMA RAN cell.
Related command(s):	EHN, EHO
Note:	Optional (ISHO_SUPPORT_IN_BSC)

8.43 modified averaging window (ERAW)

GSM reference:	No ref.
Q3 name:	modifiedAveWinNcell
Modification:	Online
Range:	1..32
MML default:	2
Description:	With this parameter you indicate the new averaging window size of the serving cell and adjacent cell. A new averaging window is employed after the deep dropping edge in serving cell signal is detected.
Related command(s):	EHC, EHS, EHO
Note:	OPTIONAL (Enhanced Rapid Field Drop)

8.44 modified number of zero results (ERZ)

GSM reference:	No ref.
Q3 name:	modifiedNOZ
Modification:	Online
Range:	1..32
MML default:	1
Description:	With this parameter you indicate the new number of zero results after the deep dropping edge in serving cell signal is detected.
Related command(s):	EHC, EHS, EHO
Note:	OPTIONAL (Enhanced Rapid Field Drop)

8.45 MS distance averaging window size (MSWS)

GSM reference:	No ref.
Q3 name:	msDistanceAveragingParam
Modification:	Online
Range:	1..32
MML default:	10
Description:	The parameter is the averaging parameter for triggering the handover process because the MS is out of the cell boundary. With this parameter you define the number of SACCH multiframes over which the averaging is done.
Related command(s):	EHC, EHD, EHO

8.46 MS distance ho threshold ext cell max (MAX)

GSM reference:	No ref.
Q3 name:	maxMSDistanceHOThreshold
Modification:	Online
Range:	0..63
MML default:	63
Description:	With this parameter you define the threshold level for the maximum value of timing advance. If this threshold is reached, the call is handed over to an extended area of an extended cell in the case of the Nokia Talk-family and Nokia UltraSite site type, and to an outer cell or another cell in the case of the Nokia 2nd generation site type.
Related command(s):	EHC, EHD, EHO
Note:	OPTIONAL (Improved solution for Extended cell radius)

8.47 MS distance ho threshold ext cell min (MIN)

GSM reference:	No ref.
Q3 name:	minMSDistanceHOThreshold
Modification:	Online
Range:	0..63
MML default:	2
Description:	With this parameter you define the threshold level of minimum value of timing advance. If this threshold is reached, the call is handed over to a normal area of an extended cell in the case of the Nokia Talk-family and Nokia UltraSite site type, and to an inner or another cell in the case of the Nokia 2nd generation site type.
Related command(s):	EHC, EHD, EHO
Note:	OPTIONAL (Improved solution for Extended cell radius)

8.48 MS distance threshold param ms max range (MSR), Px (MSP), Nx (MSN)

GSM reference:	No ref.
Q3 name:	msDistanceHoThresholdParam
Modification:	Online
Range:	ms max range: 0..63 (bits) Px: 1..32 Nx: 1..32
MML default:	ms max range: 63 Px: 1 Nx: 1
Description:	The parameters compare the MS-BS distance with the maximum allowed distance. Nx is the number of distances that have to be taken into account when making a handover decision. Px is the number of distances that have to be greater than the maximum distance before making a handover decision.

Related command(s):	EHC, EHD, EHO

8.49 MS speed averaging (MSA)

GSM reference:	No ref.
Q3 name:	msSpeedAveraging
Modification:	Online
Range:	1..32
MML default:	4
Description:	With this parameter you define the averaging window size for the MS speed indications from the BTS.
Related command(s):	EHC, EHA, EHO
Note:	OPTIONAL (Fast moving MS handling in macro cell)

8.50 MS speed detection state (SDS)

GSM reference:	No ref.
Q3 name:	msSpeedDetectionState
Modification:	Online
Range:	0 (MS speed algorithm is used for handover between macro and micro layers) 1 - 100 (variable window size feature is used and the parameter indicates the scaling factor for averaging window size)
MML default:	0
Description:	With this parameter you indicate the method used for MS speed detection algorithm.
Related command(s):	EHC, EHP, EHO
Note:	OPTIONAL (MS Speed Detection State)

8.51 MS speed threshold Nx (STN)

GSM reference:	No ref.
Q3 name:	msSpeedThresholdNx
Modification:	Online
Range:	1..32
MML default:	6
Description:	The parameter is used in threshold comparison between the averaged MS speed and the upper and lower speed thresholds. Nx is the total number of averages to be taken into account before the decision is possible. This parameter is common to both lower and upper speed thresholds.
Related command(s):	EHC, EHP, EHO
Note:	OPTIONAL (Fast moving MS handling in macro cell)

8.52 MS speed threshold Px (STP)

GSM reference:	No ref.
Q3 name:	msSpeedThresholdPx
Modification:	Online
Range:	1..32
MML default:	3
Description:	The parameter is used in threshold comparison between the averaged MS speed and the upper and lower speed thresholds. Px is the number of averages out of total averages that have to be lower/higher than the threshold, before a handover due to MS speed is possible. This parameter is common to both lower and upper speed thresholds.
Related command(s):	EHC, EHP, EHO
Note:	OPTIONAL (Fast moving MS handling in macro cell)

8.53 non bcch layer access threshold (LAR)

GSM reference:	No ref.
Q3 name:	nonBcchLayerAccessThr
Modification:	Online
Range:	-110..-47 (dBm)
MML default:	-90
Description:	With this parameter you define a threshold value for the estimated downlink signal level on non-BCCH layer for a moving MS from BCCH layer to non-BCCH layer.
Related command(s):	EHS, EHO
Note:	Optional, COMMON_BCCH_GSM900 or COMMON_BCCH_EGSM900 or COMMON_BCCH_GSM1800 or COMMON_BCCH_GSM1900 or COMMON_BCCH_GSM800

8.54 non bcch layer exit threshold (LER)

GSM reference:	No ref.
Q3 name:	nonBcchLayerExitThr::rxLevel
Modification:	Online
Range:	-110..-47 (dBm)
MML default:	-95
Description:	With this parameter you define a threshold value for the measured downlink signal level on non-BCCH layer for a moving MS from non-BCCH layer to BCCH layer.
Related command(s):	EHS, EHO
Note:	Optional, COMMON_BCCH_GSM900 or COMMON_BCCH_EGSM900 or COMMON_BCCH_GSM1800 or COMMON_BCCH_GSM1900 or COMMON_BCCH_GSM800

8.55 non bcch layer exit threshold nx (LEN)

GSM reference:	No ref.
Q3 name:	nonBcchLayerExitThr::nx
Modification:	Online
Range:	1..32
MML default:	1
Description:	With this parameter you define the total number of the averaged values of the signal strength downlink measurements for triggering the handover.
Related command(s):	EHS, EHO
Note:	Optional, COMMON_BCCH_GSM900 or COMMON_BCCH_EGSM900 or COMMON_BCCH_GSM1800 or COMMON_BCCH_GSM1900 or COMMON_BCCH_GSM800

8.56 non bcch layer exit threshold px (LEP)

GSM reference:	No ref.
Q3 name:	nonBcchLayerExitThr::px
Modification:	Online
Range:	1..32
MML default:	1
Description:	With this parameter you define the number of averaged signal strength downlink measurements for triggering the handover.
Related command(s):	EHS, EHO
Note:	Optional, COMMON_BCCH_GSM900 or COMMON_BCCH_EGSM900 or COMMON_BCCH_GSM1800 or COMMON_BCCH_GSM1900 or COMMON_BCCH_GSM800

8.57 number of measured FDD cells (FDMR)

GSM reference:	3GPP 04.18, 44.018
Q3 name:	fddMultiratRep
Modification:	Online
Range:	0..3
MML default:	2
Description:	With this parameter you define the number of the best valid WCDMA RAN cells to be reported by a dual mode mobile in the list of the strongest cells or in the measurement report.
Related command(s):	EHN, EHO
Note:	Optional (ISHO_SUPPORT_IN_BSC)

8.58 number of WCDMA RAN zero results (UNOZ)

GSM reference:	No ref.
Q3 name:	noOfZeroResUtran
Modification:	Online
Range:	0..32
MML default:	5
Description:	With this parameter you define the number of zero results that can be omitted when the measurement results of the adjacent WCDMA RAN cells are averaged.
Related command(s):	EHN, EHO
Note:	Optional (ISHO_SUPPORT_IN_BSC)

8.59 number of zero results (NOZ)

GSM reference:	No ref.
Q3 name:	numberOfZeroResults
Modification:	Online
Range:	0..7
MML default:	2
Description:	With this parameter you define the number of zero results which can be omitted when the measurement results of the adjacent cells are averaged.
Related command(s):	EHC, EHN, EHO

8.60 priority adjustment step for band 1-7 (P1-P7)

GSM reference:	No ref.
Q3 name:	priorityAdjStep
Modification:	Online
Range:	-8..7
MML default:	P1: 3 P2: 1 P3: 0 P4: -1 P5: -2 P6: -5 P7: -8
Description:	With these parameters you define the priority adjustment step for each of the 7 interference bands. The values are used in the calculation of the final priority of the handover candidate. The value -8 disables the handover to the handover candidate.
Related command(s):	EHC, EHX, EHO
Note:	OPTIONAL (C/I Based Handover Candidate Evaluation)

8.61 quality downlink window size (QDWS), weighting (QDW)

GSM reference:	No ref.
Q3 name:	hoAveragingQualDL
Modification:	Online
Range:	Window size: 1..32 Weighting: 1..3
MML default:	Window size: 1 (SACCH periods) Weighting: 1
Description:	The parameters calculate averaged values from signal quality downlink measurements. The window size represents the averaging window size in SACCH periods.
Related command(s):	EHA, EHC, EHO

8.62 quality uplink window size (QUWS), weighting (QUW)

GSM reference:	No ref.
Q3 name:	hoAveragingQualUL
Modification:	Online
Range:	Window size: 1..32 Weighting: 1..3
MML default:	Window size: 1 (SACCH periods) Weighting: 1
Description:	The parameters calculate averaged values from signal quality uplink measurements. Window size represents the averaging window size in SACCH periods.
Related command(s):	EHA, EHC, EHO

8.63 super reuse bad C/I threshold (BCI), Px (BPX), Nx (BNX)

GSM reference:	No ref.
Q3 name:	superReuseBadCiThreshold
Modification:	Online
Range:	C/I ratio: -127..127 (dB) Px: 1..32 Nx: 1..32
MML default:	C/I ratio: 10 Px: 2 Nx: 6
Description:	The parameter compares the downlink C/I ratio on a super-reused TRX for triggering a handover from the super-reused TRX. C/I ratio: Threshold level for a handover. Nx: Total number of comparisons to be taken into account before a decision is possible. Px: Number of comparisons out of total comparisons that have to be greater than or equal to the threshold before a handover is possible.
Related command(s):	EHC, EHY, EHO
Note:	OPTIONAL (Intelligent Underlay Overlay)

8.64 Super reuse bad C/I threshold AMR FR (BCIF)

GSM reference:	No ref.
Q3 name:	-
Modification:	Online
Range:	-127..127 (dB)
MML default:	10
Description:	With this parameter you define the downlink C/I ratio on a super-reuse TRX for triggering the HO from the super-reuse TRX.

	Defined for AMR FR calls.
Related command(s):	EHC, EHB, EHO
Note:	OPTIONAL (Intelligent Underlay Overlayand AMR)

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

GSM reference:	No ref.
Q3 name:	-
Modification:	Online
Range:	-127..127 (dB)
MML default:	10
Description:	With this parameter you define the downlink C/I ratio on a super-reuse TRX for triggering the HO from the super-reuse TRX. Defined for AMR HR calls.
Related command(s):	EHC, EHB, EHO
Note:	OPTIONAL (Intelligent Underlay Overlay and AMR)

8.66 super reuse bad threshold Rx level (CBR), Px (CBP), Nx (CBN)

GSM reference:	No ref.
Q3 name:	superReuseBadRxLevThreshold Px Nx
Modification:	Online
Range:	Rx level: -110..-47 (dBm) Px: 1..32 Nx: 1..32
MML default:	Rx level: -85 Px: 2 Nx: 6

Description: The parameter is used for comparing the downlink signal level of the super-reuse TRX for triggering the handover to a regular TRX.

Px: Number of comparisons out of total comparisons where the downlink signal level has to be lower or equal to the threshold before the handover decision is possible.

Nx: Total number of comparisons to be taken into account before the handover decision is possible.

Related command(s): EHC, EHY, EHO

Note: OPTIONAL (Intelligent Coverage Enhancement)

8.67 super reuse estimation method (METH)

GSM reference: No ref.

Q3 name: superReuseEstMethod

Modification: Online

Range: AVE (average taking method for IUO)

MAX (maximum taking method for IUO)

ICE (handover support for ICE)

NONE (IUO or ICE is not in use for this cell)

MML default: NONE

Description: With this parameter you define the method which will be used in the handover evaluation procedure when the handover algorithm calculates either the downlink C/I ratio for Intelligent Underlay-Overlay (IUO) or the downlink signal level for Intelligent Coverage Enhancement (ICE).

Related command(s): EHC, EHY, EHO

Note: OPTIONAL (Intelligent Underlay Overlay OR Intelligent Coverage Enhancement)

Parameter range is dependent on the use of optional features. Parameter values AVE and MAX are visible if the optional feature Intelligent Underlay Overlay is enabled, and parameter value ICE is visible if Intelligent Coverage Enhancement is enabled. Value NONE is always visible.

8.68 super reuse good C/I threshold (GCI), Px (GPX), Nx (GNX)

GSM reference:	No ref.
Q3 name:	superReuseGoodCiThreshold
Modification:	Online
Range:	C/I ratio: -127..127 (dB) Px: 1..32 Nx: 1..32
MML default:	C/I ratio: 17 Px: 8 Nx: 10
Description:	The parameter compares the downlink C/I ratio on a super-reused TRX for triggering a handover to the super-reused TRX. C/I ratio: Threshold level for a handover. Nx: Total number of comparisons to be taken into account before a decision is possible. Px: Number of comparisons out of total comparisons that have to be greater than or equal to the threshold before a handover is possible.
Related command(s):	EHC, EHY, EHO
Note:	OPTIONAL (Intelligent Underlay Overlay)

8.69 super reuse good C/I threshold AMR FR (GCIF)

GSM reference:	No ref.
Q3 name:	-
Modification:	Online
Range:	-127..127 (dB)
MML default:	17
Description:	With this parameter you define the downlink C/I ratio on a super-reuse TRX for triggering the HO to the super-reuse TRX. Defined

	for AMR FR calls.
Related command(s):	EHC, EHB, EHO
Note:	OPTIONAL (Intelligent Underlay Overlay and AMR)

8.70 Super reuse good C/I threshold AMR HR (GCIH)

GSM reference:	No ref.
Q3 name:	-
Modification:	Online
Range:	-127..127 (dB)
MML default:	17
Description:	With this parameter you define the downlink C/I ratio on a super-reuse TRX for triggering the HO to the super-reuse TRX. Defined for AMR HR calls.
Related command(s):	EHC, EHB, EHO
Note:	OPTIONAL (Intelligent Underlay Overlay and AMR)

8.71 super reuse good threshold Rx level (CGR), Px (CGP), Nx (CGN)

GSM reference:	No ref.
Q3 name:	superReuseGoodRxLevThreshold Px Nx
Modification:	Online
Range:	Rx level: -110..-47 (dBm) Px: 1..32 Nx: 1..32
MML default:	Rx level: -80 Px: 8 Nx: 10

Description:	The parameter is used for comparing the downlink signal level for triggering a handover to the super-reuse TRX. Px: Number of comparisons out of total comparisons where the downlink signal level has to be greater or equal to the threshold before a handover decision is possible. Nx: Total number of comparisons to be taken into account before the handover decision is possible.
Related command(s):	EHC, EHY, EHO
Note:	OPTIONAL (Intelligent Coverage Enhancement)

8.72 threshold deep dropping edge (ERT), Px (ERP), Nx (ERN)

GSM reference:	No ref.
Q3 name:	ddeThresholdsLev
Modification:	Online
Range:	threshold: 0..63 (dB) Px: 1..32 Nx: 1..32
MML default:	threshold: 10 Px: 2 Nx: 3
Description:	The parameter is used for comparing the size of the signal drop for triggering the rapid field drop handover. Px: Number of measurement sample frames when the deep dropping edge is detected. Nx: Total number of measurement samples to be taken into account before the handover decision is possible.
Related command(s):	EHC, EHS, EHO
Note:	OPTIONAL (Enhanced Rapid Field Drop)

8.73 Threshold dl Rx qual AMR HR (QDRH)

GSM reference:	No ref.
Q3 name:	-
Modification:	Online
Range:	0..7
MML default:	4
Description:	With this parameter you define the threshold level of the signal quality downlink measurements for triggering the handover. Defined for the default AMR HR set.
Related command(s):	EHC, EHB, EHO
Note:	Optional (Intelligent Underlay Overlay and AMR)

8.74 threshold dl Rx qual for AMR FR (QDRF)

GSM reference:	No ref.
Q3 name:	-
Modification:	Online
Range:	0..7
MML default:	4
Description:	With this parameter you define the threshold level of the signal quality downlink measurements for triggering the handover. Defined for the default AMR FR set.
Related command(s):	EHC, EHB, EHO
Note:	Optional (Intelligent Underlay Overlay and AMR)

8.75 threshold for multi-RAT MS (QSRC)

GSM reference:	3GPP 04.18, 05.08
Q3 name:	qSearchC
Modification:	Online
Range:	0..15
MML default:	15
Description:	With this parameter you indicate a threshold for multi-RAT (radio access technology) MSs in dedicated state to measure WCDMA RAN neighbour cells introduced in 3G Cell Reselection list the measured downlink signal level (RLA_C) of the serving cell is below (0-7) or above (8-15) the threshold.
Related command(s):	EHN, EHO
Note:	If the parameter value is 7 then dual mode GSM/WCDMA (multi-RAT) MSs in dedicated state measure always neighbour WCDMA RAN cell(s). If the parameter value is 15 then dual mode GSM/WCDMA (multi-RAT) MSs in dedicated state do not measure any of the neighbour WCDMA RAN cells. Optional (ISHO_SUPPORT_IN_BSC

8.76 threshold interference downlink Rx level (IDR), Px (IDP), Nx (IDN)

GSM reference:	No ref.
Q3 name:	hoThresholdsInterferenceDL
Modification:	Online
Range:	Rx level: -110..-47 (dBm) Px: 1..32 Nx: 1..32
MML default:	Rx level: -85 Px: 1 Nx: 1
Description:	The parameters compare the averaged values of interference

downlink measurements for triggering the handover process.

Px: Number of averages that have to be upper/lower than the threshold.

Nx: Number of averages that have to be taken into account when making a handover decision.

Related command(s): EHC, EHI, EHO

8.77 threshold interference uplink Rx level (IUR), Px (IUP), Nx (IUN)

GSM reference: No ref.

Q3 name: hoThresholdsInterferenceUL

Modification: Online

Range: Rx level: -110..-47 (dBm)

Px: 1..32

Nx: 1..32

MML default: Rx level: -85

Px: 1

Nx: 1

Description: The parameters compare the averaged values of interference uplink measurements for triggering the handover process.

Px: Number of averages that have to be upper/lower than the threshold.

Nx: Number of averages that have to be taken into account when making a handover decision.

Related command(s): EHC, EHI, EHO

8.78 threshold level downlink Rx level (LDR), Px (LDP), Nx (LDN)

GSM reference: No ref.

Q3 name: hoThresholdsLevDL

Modification:	Online
Range:	Rx level: -110..-47 (dBm) Px: 1..32 Nx: 1..32
MML default:	Rx level: -95 Px: 1 Nx: 1
Description:	The parameters compare the averaged values of signal strength downlink measurements for triggering the handover process. Px: Number of averages that have to be upper/lower than the threshold. Nx: Number of averages that have to be taken into account when making a handover decision.
Related command(s):	EHC, EHO, EHS

8.79 threshold level uplink for rapid field drop (RPD)

GSM reference:	No ref.
Q3 name:	HoThresholdsRapidLevUl
Modification:	Online
Range:	-110 ... -47 (dBm)
MML default:	-110
Description:	With this parameter you define an uplink Rx threshold level for rapid field drop.
Related command(s):	EHC, EHS, EHO
Note:	OPTIONAL (Chained cells in rapid field drop)

8.80 threshold level uplink Rx level (LUR), Px (LUP), Nx (LUN)

GSM reference:	No ref.
Q3 name:	hoThresholdsLevUL
Modification:	Online
Range:	Rx level: -110..-47 (dBm) Px: 1..32 Nx: 1..32
MML default:	Rx level: -95 Px: 1 Nx: 1
Description:	The parameters compare the averaged values of signal strength uplink measurements for triggering the handover process. Px: Number of averages that have to be upper/lower than the threshold. Nx: Number of averages that have to be taken into account when making a handover decision.
Related command(s):	EHC, EHO, EHS

8.81 threshold qual downlink Rx qual (QDR), Px (QDP), Nx (QDN)

GSM reference:	No ref.
Q3 name:	hoThresholdsQualDL
Modification:	Online
Range:	Rx qual: 0..7 Px: 1..32 Nx: 1..32
MML default:	Rx qual: 4 (1.6%..3.2%) Px: 4 Nx: 6
Description:	The parameters compare the averaged values of signal quality downlink measurements for triggering the handover process.

	Px: Number of averages that have to be upper/lower than the threshold. Nx: Number of averages that have to be taken into account when making a handover decision.
Related command(s):	EHC, EHO, EHQ

8.82 threshold qual uplink Rx qual (QUR), Px (QUP), Nx (QUN)

GSM reference:	No ref.
Q3 name:	hoThresholdsQualUL
Modification:	Online
Range:	Rx qual: 0..7 Px: 1..32 Nx: 1..32
MML default:	Rx qual: 4 (1.6%..3.2%) Px: 4 Nx: 6
Description:	The parameters compare the averaged values of signal quality uplink measurements for triggering the handover process. Px: Number of averages that have to be upper/lower than the threshold. Nx: Number of averages that have to be taken into account when making a handover decision.
Related command(s):	EHC, EHO, EHQ

8.83 Threshold ul Rx qual AMR FR (QURF)

GSM reference:	No ref.
Q3 name:	-
Modification:	Online

Range:	0..7
MML default:	4
Description:	With this parameter you define the threshold level of the signal quality uplink measurements for triggering the handover. Defined for the default AMR FR set.
Related command(s):	EHC, EHB, EHO
Note:	Optional (Intelligent Underlay Overlay and AMR)

8.84 threshold ul Rx qual AMR HR (QURH)

GSM reference:	No ref.
Q3 name:	-
Modification:	Online
Range:	0..7
MML default:	4
Description:	With this parameter you define the threshold level of the signal quality uplink measurements for triggering the handover. Defined for the default AMR HR set.
Related command(s):	EHC, EHB, EHO
Note:	Optional (Intelligent Underlay Overlay and AMR)

8.85 upper speed limit (USL)

GSM reference:	No ref.
Q3 name:	upperSpeedLimit
Modification:	Online
Range:	0..255
MML default:	0
Description:	With this parameter you define the upper speed threshold for an

MS. If the speed of the MS is higher than this threshold, the MS will be handed over to a upper layer adjacent cell (if any). One parameter step equals the speed of 2 km/h. If the value is zero, the upper speed verifying is not made.

Related command(s): EHC, EHP, EHO

Note: OPTIONAL (Fast moving MS handling in macro cell)

9 Power control (POC)

9.1 ALA enabled (AENA)

GSM reference:	No ref.
Q3 name:	enableALA
Modification:	Online
Range:	Y (automatic link adaptation is enabled) N (automatic link adaptation is disabled)
MML default:	N
Description:	With this parameter you switch on and off the automatic link adaptation function where the channel coding is changed between 14.4 kbit/s and 9.6 kbit/s.
Related command(s):	EUC, EUG, EUO

9.2 binary representation ALPHA (ALPHA)

GSM reference:	ETS 300 940 (GSM 04.08)
Q3 name:	alpha
Modification:	Online
Range:	0...10 according to the following principle: 0: α=0.0 1: α=0.1 2: α=0.2 ...

	10: α=1.0
MML default:	7 (GSM 800 and GSM 900) 8 (GSM 1800 and GSM 1900)
Description:	With this parameter you describe the binary representation of the parameter α.
Related command(s):	EUC, EUM, EUO
Note:	OPTIONAL (Gb Interface functionality)

9.3 binary representation TAU (GAMMA)

GSM reference:	ETS 300 940 (GSM 04.08)
Q3 name:	gamma
Modification:	Online
Range:	0...62 (dB) with a step size of 2
MML default:	34 (GSM 800 and GSM 900) 36 (GSM 1800 and GSM 1900)
Description:	With this parameter you describe the binary representation of the parameter τ ch for MS output power control.
Related command(s):	EUC, EUM, EUO
Note:	OPTIONAL (Gb Interface functionality)

9.4 bit error probability filter averaging period (BEP)

GSM reference:	3GPP 04.60, 05.08
Q3 name:	bepPeriod
Modification:	Online
Range:	1,2,3,4,5,7,10,12,15,20,25
MML default:	10

Description:	With this parameter you define the bit error probability filter averaging period for EGPRS channel quality measurements.
Related command(s):	EUC, EUM, EUO
Note:	Optional (Gb Interface functionality and Enhanced Data Rates for Global Evolution, EDGE)

9.5 bs tx pwr max (PMAX)

GSM reference:	I-ETS 300 033 (GSM 05.05) I-ETS 300 034-1 (GSM 05.08)
Q3 name:	bsTxPwrMax
Modification:	Online
Range:	0..30 (dB) with a step size of 2
MML default:	0
Description:	With this parameter you identify the maximum transmission power of the BTS as an attenuation from the peak power of the TRX.
Related command(s):	EUC, EUG, EUO
Note:	There are limitations for Nokia InSite.

9.6 bs tx pwr min (PMIN)

GSM reference:	I-ETS 300 033 (GSM 05.05) I-ETS 300 034-1 (GSM 05.08)
Q3 name:	bsTxPwrMin
Modification:	Online
Range:	0..30 (dB) with a step size of 2
MML default:	30
Description:	With this parameter you identify the minimum transmission power of the BTS as an attenuation from the peak power of the TRX.

Related command(s):	EUC, EUG, EUO
Note:	There are limitations for Nokia InSite.

9.7 idle mode signal strength filter period (IFP)

GSM reference:	ETS 300 940 (GSM 04.08)
Q3 name:	tAvgW
Modification:	Online
Range:	0...25
MML default:	9
Description:	With this parameter you control the signal strength filter period for power control in the packet idle mode.
Related command(s):	EUC, EUM, EUO
Note:	OPTIONAL (Gb Interface functionality)

9.8 min int between ALA (AMIN)

GSM reference:	No ref.
Q3 name:	minIntBetweenALA
Modification:	Online
Range:	0..30 (seconds)
MML default:	10
Description:	With this parameter you determine the time interval between two consecutive automatic link adaptation procedures where the channel coding is changed between 14.4 kbit/s and 9.6 kbit/s.
Related command(s):	EUC, EUG, EUO

9.9 pc averaging lev dl window size (LDS), weighting (LDW)

GSM reference:	No ref.
Q3 name:	pcAveragingLevDL
Modification:	Online
Range:	Window size: 1..32 Weighting: 1..3
MML default:	Window size: 4 Weighting: 1
Description:	The parameter calculates averaged values from signal strength downlink measurements for the power control process. The parameter includes the averaging window size in SACCH periods and weighting.
Related command(s):	EUA, EUC, EUO

9.10 pc averaging lev ul window size (LUS), weighting (LUW)

GSM reference:	No ref.
Q3 name:	pcAveragingLevUL
Modification:	Online
Range:	Window size: 1..32 Weighting: 1..3
MML default:	Window size: 4 Weighting: 1
Description:	The parameter calculates averaged values from signal strength uplink measurements for the power control process. The parameter includes the averaging window size in SACCH periods and weighting.
Related command(s):	EUA, EUC, EUO

9.11 pc averaging qual dl window size (QDS), weighting (QDW)

GSM reference:	No ref.
Q3 name:	pcAveragingQualDL
Modification:	Online
Range:	Window size: 1..32 Weighting: 1..3
MML default:	Window size: 1 Weighting: 1
Description:	The parameter calculates averaged values from signal strength downlink measurements for the power control process. The parameter includes the averaging window size in SACCH periods and weighting.
Related command(s):	EUA, EUC, EUO

9.12 pc averaging qual ul window size (QUS), weighting (QUW)

GSM reference:	No ref.
Q3 name:	pcAveragingQualUL
Modification:	Online
Range:	Window size: 1..32 Weighting: 1..3
MML default:	Window size: 1 Weighting: 1
Description:	The parameter calculates averaged values from signal strength uplink measurements for the power control process. The parameter includes the averaging window size in SACCH periods and weighting.
Related command(s):	EUA, EUC, EUO

9.13 Pc lower threshold dl Rx qual AMR FR (LDRF)

GSM reference:	No ref.
Q3 name:	amrPowerControlFr
Modification:	Online
Range:	0..7
MML default:	3
Description:	With this parameter you define the threshold level of the downlink signal quality measurements for the BTS power increase. Defined for the default FR AMR set.
Related command(s):	EUB, EUC, EUO
Note:	Optional (Intelligent Underlay Overlay and AMR)

9.14 Pc lower threshold dl Rx qual AMR HR (LDRH)

GSM reference:	No ref.
Q3 name:	amrPowerControlHr
Modification:	Online
Range:	0..7
MML default:	3
Description:	With this parameter you define the threshold level of the downlink signal quality measurements for the BTS power increase. Defined for the default HR AMR set.
Related command(s):	EUB, EUC, EUO
Note:	Optional (Intelligent Underlay Overlay and AMR)

9.15 Pc lower threshold ul Rx qual AMR FR (LURF)

GSM reference:	No ref.
Q3 name:	amrPowerControlFr
Modification:	Online
Range:	0..7
MML default:	3
Description:	With this parameter you define the threshold level of the downlink signal quality measurements for the MS power increase. Defined for the default FR AMR set.
Related command(s):	EUB, EUC, EUO
Note:	Optional (Intelligent Underlay Overlay and AMR)

9.16 Pc lower threshold ul Rx qual AMR HR (LURH)

GSM reference:	No ref.
Q3 name:	amrPowerControlHr
Modification:	Online
Range:	0..7
MML default:	3
Description:	With this parameter you define the threshold level of the downlink signal quality measurements for the BTS power increase. Defined for the default HR AMR set.
Related command(s):	EUB, EUC, EUO
Note:	Optional (Intelligent Underlay Overlay and AMR)

9.17 pc lower thresholds lev dl Rx level (LDR), Px (LDP), Nx (LDN)

GSM reference:	No ref.
Q3 name:	pcLowerThresholdsLevDL
Modification:	Online
Range:	Rx level: -110..-47 (dBm) Px: 1..32 Nx: 1..32
MML default:	Rx level: -85 Px: 1 Nx: 1
Description:	The parameters compare the averaged values of signal strength downlink measurements for triggering the power control process. Rx level: Threshold level for downlink power increase. Px: Number of averages that have to be lower than the threshold before making a power increase decision. Nx: The total number of averages that have to be taken into account before a power increase decision.
Related command(s):	EUC, EUO, EUS

9.18 pc lower thresholds lev ul Rx level (LUR), Px (LUP), Nx (LUN)

GSM reference:	No ref.
Q3 name:	pcLowerThresholdsLevUL
Modification:	Online
Range:	Rx level: -110..-47 (dBm) Px: 1..32 Nx: 1..32
MML default:	Rx level: -85 Px: 1 Nx: 1

Description: The parameters compare the averaged values of signal strength uplink measurements for triggering the power control process.

Rx level: Threshold level for uplink power increase.

Px: Number of averages that have to be lower than the threshold before making a power increase decision.

Nx: The total number of averages that have to be taken into account before the power increase decision.

Related command(s): EUC, EUO, EUS

9.19 pc lower thresholds qual dl Rx qual (LDR), Px (LDP), Nx (LDN)

GSM reference: No ref.

Q3 name: pcLowerThresholdsQualDL

Modification: Online

Range: Rx qual: 0..7

Px: 1..32

Nx: 1..32

MML default: Rx qual: 3 (0.8%..1.6%)

Px: 3

Nx: 4

Description: The parameters compare the averaged values of signal quality downlink measurements for triggering the power control process.

Rx qual: Threshold level for a downlink power increase.

Px: Number of averages that have to be lower than the threshold before making a power increase decision.

Nx: The total number of averages that have to be taken into account before a power increase decision.

Related command(s): EUC, EUO, EUQ

9.20 pc lower thresholds qual ul RX qual (LUR), Px (LUP), Nx (LUN)

GSM reference:	No ref.
Q3 name:	pcLowerThresholdsQualUL
Modification:	Online
Range:	Rx qual: 0..7 Px: 1..32 Nx: 1..32
MML default:	Rx qual: 3 (0.8%..1.6%) Px: 3 Nx: 4
Description:	The parameters compare the averaged values of signal quality uplink measurements for triggering the power control process. Rx qual: Threshold level for an uplink power increase. Px: Number of averages that have to be lower than the threshold before making a power increase decision. Nx: The total number of averages that have to be taken into account before a power increase decision.
Related command(s):	EUC, EUO, EUQ

9.21 pc lower thresholds qual144 Rx level (LQR), Px (LQP), Nx (LQN)

GSM reference:	No ref.
Q3 name:	pcLowerThresholdsQual144
Modification:	Online
Range:	Rx qual: 0..7 Px: 1..32 Nx: 1..32
MML default:	Rx qual: 3 (0.8%..1.6%) Px: 3 Nx: 4

Description:	The parameter is used for comparing the averaged values of the signal quality uplink and downlink measurements for triggering the power control procedure for 14.4 kbit/s connections. Rx qual: Threshold level for power increase. Px: Number of averages out of total averages that have to be greater than or equal to the threshold before a power increase decision is possible. Nx: Number of averages taken into account before a power increase decision is possible.
Related command(s):	EUC, EUQ, EUO

9.22 Pc upper threshold dl Rx qual AMR FR (UDRF)

GSM reference:	No ref.
Q3 name:	amrPowerControlFr
Modification:	Online
Range:	0..7
MML default:	0
Description:	With this parameter you define the threshold level of the downlink signal quality measurements for the BTS power decrease. Defined for the default FR AMR set.
Related command(s):	EUB, EUC, EUO
Note:	Optional (Intelligent Underlay Overlay and AMR)

9.23 Pc upper threshold dl Rx qual AMR HR (UDRH)

GSM reference:	No ref.
Q3 name:	amrPowerControlHr
Modification:	Online
Range:	0..7
MML default:	0

Description:	With this parameter you define the threshold level of the downlink signal quality measurements for the BTS power decrease. Defined for the default HR AMR set.
Related command(s):	EUB, EUC, EUO
Note:	Optional (Intelligent Underlay Overlay and AMR)

9.24 Pc upper threshold ul Rx qual AMR FR (UURF)

GSM reference:	No ref.
Q3 name:	amrPowerControlFr
Modification:	Online
Range:	0..7
MML default:	0
Description:	With this parameter you define the threshold level of the downlink signal quality measurements for the MS power decrease. Defined for the default FR AMR set.
Related command(s):	EUB, EUC, EUO
Note:	Optional (Intelligent Underlay Overlay and AMR)

9.25 Pc upper threshold ul Rx qual AMR HR (UURH)

GSM reference:	No ref.
Q3 name:	amrPowerControlHr
Modification:	Online
Range:	0..7
MML default:	0
Description:	With this parameter you define the threshold level of the downlink signal quality measurements for the MS power decrease. Defined for the default HR AMR set.
Related command(s):	EUB, EUC, EUO

Note: Optional (Intelligent Underlay Overlay and AMR)

9.26 pc upper thresholds lev dl Rx level (UDR), Px (UDP), Nx (UDN)

GSM reference: No ref.

Q3 name: pcUpperThresholdsLevDL

Modification: Online

Range: Rx level: -110..-47 (dBm)

Px: 1..32

Nx: 1..32

MML default: Rx level: -70

Px: 1

Nx: 1

Description: The parameters compare the averaged values of signal strength downlink measurements for triggering the power control process.

Rx level: Threshold level for a downlink power reduction.

Px: Number of averages that have to be lower than the threshold before making a power reduction decision.

Nx: The total number of averages that have to be taken into account before the power reduction decision.

Related command(s): EUC, EUO, EUS

9.27 pc upper thresholds lev ul Rx level (UUR), Px (UUP), Nx (UUN)

GSM reference: No ref.

Q3 name: pcUpperThresholdsLevUL

Modification: Online

Range: Rx level: -110..-47 (dBm)

Px: 1..32

	Nx: 1..32
MML default:	Rx level: -70
	Px: 1
	Nx: 1
Description:	The parameters compare the averaged values of signal strength uplink measurements for triggering the power control process.
	Rx level: Threshold level for an uplink power reduction.
	Px: Number of averages that have to be lower than the threshold before making a power reduction decision.
	Nx: The total number of averages that have to be taken into account before the power reduction decision.
Related command(s):	EUC, EUO, EUS

9.28 pc upper thresholds qual dl Rx qual (UDR), Px (UDP), Nx (UDN)

GSM reference:	No ref.
Q3 name:	pcUpperThresholdsQualDL
Modification:	Online
Range:	Rx qual: 0..7
	Px: 1..32
	Nx: 1..32
MML default:	Rx qual: 0 (<0.2%)
	Px: 32
	Nx: 32
Description:	The parameters compare the averaged values of signal quality downlink measurements for triggering the power control process.
	Rx qual: Threshold level for a downlink power reduction.
	Px: Number of averages that have to be lower than the threshold before making a power reduction decision.
	Nx: The total number of averages that have to be taken into account before the power reduction decision.
Related command(s):	EUC, EUO, EUQ

9.29 pc upper thresholds qual ul Rx qual (UUR), Px (UUP), Nx (UUN)

GSM reference:	No ref.
Q3 name:	pcUpperThresholdsQualUL
Modification:	Online
Range:	Rx qual: 0..7 Px: 1..32 Nx: 1..32
MML default:	Rx qual: 0 (<0.2%) Px: 32 Nx: 32
Description:	The parameters compare the averaged values of signal quality uplink measurements for triggering the power control process. Rx qual: Threshold level for an uplink power reduction. Px: Number of averages that have to be lower than the threshold before making a power reduction decision. Nx: The total number of averages that have to be taken into account before the power reduction decision.
Related command(s):	EUC, EUO, EUQ

9.30 power control interval (INT)

GSM reference:	No ref.
Q3 name:	powerControlInterval
Modification:	Online
Range:	0..31 (s)
MML default:	2
Description:	With this parameter you define the minimum interval between the changes in the radio frequency power level.
Related command(s):	EUC, EUG, EUO

9.31 power ctrl enabled (PENA)

GSM reference:	I-ETS 300 034-1 (GSM 05.08)
Q3 name:	powerCtrlEnabled
Modification:	Online
Range:	Y/N
MML default:	Y
Description:	With this parameter you indicate whether the BTS power control is enabled.
Related command(s):	EUC, EUG, EUO

9.32 power decr limit band 0 (PD0)

GSM reference:	No ref.
Q3 name:	pwrDecrLimitBand0
Modification:	Online
Range:	0..38 (dB) with a step size of 2 dB
MML default:	38
Description:	With this parameter you define the maximum allowed power decrease step size. This step size limit is used when a power decrease of a MS is performed due to high uplink quality, and the averaged uplink signal quality (bit error rate) is lower than 0.2%.
Related command(s):	EUC, EUG, EUO

9.33 power decr limit band 1 (PD1)

GSM reference:	No ref.
Q3 name:	pwrDecrLimitBand1
Modification:	Online

Range:	0..38 (dB) with a step size of 2 dB
MML default:	38
Description:	With this parameter you define the maximum allowed power decrease step size. This step size limit is used when a power decrease of a MS is performed due to high uplink quality, and averaged uplink signal quality (bit error rate) is between 0.2% and 0.4%.
Related command(s):	EUC, EUG, EUO

9.34 power decr limit band 2 (PD2)

GSM reference:	No ref.
Q3 name:	pwrDecrLimitBand2
Modification:	Online
Range:	0..38 (dB) with a step size of 2 dB
MML default:	38
Description:	With this parameter you define the maximum allowed power decrease step size. This step size limit is used when a power decrease of a MS is performed due to high uplink quality, and averaged uplink signal quality (bit error rate) is higher than 0.4%.
Related command(s):	EUC, EUG, EUO

9.35 power decr qual factor (PDF)

GSM reference:	No ref.
Q3 name:	powerDecrQualFactor
Modification:	Online
Range:	0 (disabled) 1 (enabled)
MML default:	1
Description:	With this parameter you enable or disable the MS power decrease

due to signal quality with the defined variable power change step size. This is done when the uplink signal level is lower than the optimum uplink RF signal level and the averaged signal quality equals the quality threshold. The parameter also has an effect on the size of the power decrease step.

Related command(s): EUC, EUG, EUO

9.36 power incr step size (INC)

GSM reference: No ref.

Q3 name: powerIncrStepsize

Modification: Online

Range: 2, 4 or 6 (dB)

MML default: 4

Description: With this parameter you define the step size for increasing the transmission power of the mobile station.

Related command(s): EUC, EUG, EUO

9.37 power limit ALA (ALIM)

GSM reference: No ref.

Q3 name: powerLimitALA

Modification: Online

Range: 0..30 (dB) with step size of 2 dB

MML default: 6

Description: With this parameter you determine the MS and BTS power levels for automatic link adaptation function, where the channel coding is changed between 14.4 kbit/s and 9.6 kbit/s.

Related command(s): EUC, EUG, EUO

9.38 power red step size (RED)

GSM reference:	No ref.
Q3 name:	powerRedStepSize
Modification:	Online
Range:	2 or 4 (dB)
MML default:	2
Description:	With this parameter you define the step size for reducing the transmission power of the mobile station.
Related command(s):	EUC, EUG, EUO

9.39 transfer mode signal strength filter period (TFP)

GSM reference:	ETS 300 940 (GSM 04.08)
Q3 name:	tAvgT
Modification:	Online
Range:	0...25
MML default:	13
Description:	With this parameter you control the signal strength filter period for power control in the packet transfer mode.
Related command(s):	EUC, EUM, EUO
Note:	OPTIONAL (Gb Interface functionality)

10 BCCH allocation frequency list (BA), optional (Double BA lists)

10.1 frequency

GSM reference:	I-ETS 300 034-1 (GSM 05.08)
Q3 name:	bCCHAllocationList
Modification:	Online
Range:	GSM 800: 128..251 GSM 900: 1..124 and 975..1023, 0 GSM 1800: 512..885 GSM 1900: 512..810 MULTI: 1...124, 128...251 <option>, 512...810 <option>, 512...885, 975...1023, 0
MML default:	-
Description:	With this parameter you define the frequency to be added to the BCCH frequency list or to be removed from it. The maximum number of frequencies in one BCCH frequency list is 32.
Related command(s):	EBC, EBM, EBO
Note:	MULTI consists of two frequency bands, dual band for GSM 900/ GSM 1800 and dual band for GSM 800/GSM 1900. The value range of dual band GSM 900/GSM 1800 is 1...124, 512...885, 975...1023, 0. The value range of dual band GSM 800/GSM 1900 is 128...251, 512...810. The frequency range depends on the active dual band feature. The maximum number of frequencies in one BCCH frequency list is 32. If the Common BCCH feature is used, the maximum is 31. If the option ISHO_SUPPORT_IN_BSC is on, the maximum is 31. If the Common BCCH feature and also ISHO_SUPPORT_IN_BSC option is used, the maximum is 30.

10.2 identification of BCCH frequency list

GSM reference:	No ref.
Q3 name:	bCCHAllocation-ID
Modification:	Read only
Range:	1..255
MML default:	-
Description:	With this parameter you identify the BCCH frequency list.
Related command(s):	EBC, EBD, EBM, EBO

10.3 type of BCCH frequency list

GSM reference:	No ref.
Q3 name:	frequencyBandInUse
Modification:	Read only
Range:	800, 900, 1800, 1900, MULTI
MML default:	-
Description:	With this parameter you define the type of the BCCH frequency list. The value depends on the frequency band used in the BTS. The band is either GSM 800, GSM 900, GSM 1800, GSM 1900, or MULTI.
Related command(s):	EBC, EBO

11 Mobile allocation frequency list (MA)

11.1 frequency

GSM reference:	I-ETS 300 022-1 (GSM 04.08) I-ETS 300 030 (GSM 05.02)
Q3 name:	mobileAllocationList
Modification:	When BTS is locked, if used in a RF hopping BTS
Range:	GSM 800: 128..251 GSM 900: 1..124 and 975..1023, 0 GSM 1800: 512..885 GSM 1900: 512..810
MML default:	-
Description:	With this parameter you define the frequency to be added to the mobile allocation frequency list or to be removed from it. The maximum number of frequencies in one mobile allocation frequency list is 63.
Related command(s):	EBE, EBT, EBI
Note:	BCCH frequency must not be included in the list.

11.2 identification of mobile allocation frequency list

GSM reference:	I-ETS 300 022-1 (GSM 04.08) I-ETS 300 030 (GSM 05.02)
Q3 name:	mobileAllocation-ID

Modification:	Read only
Range:	1..255
MML default:	-
Description:	With this parameter you identify the mobile allocation frequency list.
Related command(s):	EBE, EBR, EBT, EBI

11.3 type of mobile allocation frequency list

GSM reference:	I-ETS 300 022-1 (GSM 04.08) I-ETS 300 030 (GSM 05.02)
Q3 name:	frequencyBandInUse
Modification:	Read only
Range:	800, 900, 1800, 1900
MML default:	-
Description:	With this parameter you define the type of the mobile allocation frequency list. The value depends on the frequency band used in the BTS. The band is either GSM 800, GSM 900, GSM 1800 or GSM 1900.
Related command(s):	EBE, EBI

12 Routing area (RA), optional (Gb Interface functionality)

12.1 location area code (LAC)

GSM reference:	ETS 301 344 (GSM 03.60)
Q3 name:	routingAreaId
Modification:	Read only
Range:	0...65535
MML default:	–
Description:	With this parameter you identify the location are code number.
Related command(s):	EBF, EBG, EBH, EBP
Note:	Routing Area Identification (RAI = MCC + MNC + LAC + RAC) is used for identifying GPRS cells.

12.2 mobile country code (MCC)

GSM reference:	ETS 301 344 (GSM 03.60)
Q3 name:	routingAreaId
Modification:	Read only
Range:	0...999
MML default:	–
Description:	With this parameter you identify the mobile country code number.

Related command(s): EBF, EBG, EBH, EBP

Note: Routing Area Identification (RAI = MCC + MNC + LAC + RAC) is used for identifying GPRS cells.

12.3 mobile network code (MNC)

GSM reference: ETS 301 344 (GSM 03.60)

Q3 name: routingAreaId

Modification: Read only

Range: 0...99

0...999 OPTIONAL (Three Digit MNC)

MML default: –

Description: With this parameter you identify the mobile network code number.

Related command(s): EBF, EBG, EBH, EBP

Note: Routing Area Identification (RAI = MCC + MNC + LAC + RAC) is used for identifying GPRS cells.

12.4 network service entity identifier (NSEI)

GSM reference: TS 101 299 (GSM 08.16)

Q3 name: nseiList

Modification: When no BTS uses the NSEI

Range: 0...65535

MML default: –

Description: With this parameter you define the network service entity identifiers of the routing area.

Related command(s): EBF, EBH, EBP

12.5 routing area code (RAC)

GSM reference:	ETS 301 344 (GSM 03.60)
Q3 name:	routingAreaId
Modification:	Read only
Range:	0...255
MML default:	–
Description:	With this parameter you identify the routing area code number.
Related command(s):	EBF, EBG, EBH, EBP
Note:	Routing Area Identification (RAI = MCC + MNC + LAC + RAC) is used for identifying GPRS cells.

13 Network service entity (NSE), optional (Gb Interface functionality)

13.1 network service entity identifier (NSEI)

GSM reference:	TS 101 299 (GSM 08.16)
Q3 name:	nsei
Modification:	When no BTS uses the NSEI
Range:	0..65535
MML default:	-
Description:	With this parameter you identify the network service entity. The value must be same in both BSS and SGSN the value must be unique in the BSC.
Related command(s):	FWC, FWO

14 Network service virtual connection (NS_VC), optional (Gb Interface functionality)

14.1 BCSU logical index (BCSU)

GSM Reference:	No ref.
Q3 Name:	unitLogicalIndex
Modification:	Read only
Range:	0..8 (If the network element type is BSC3i, then the range is 0..6)
MML Default:	–
Description:	With this parameter you identify the base station signalling unit logical index where you want to create the NS-VC.
Related command(s):	FWC, FWO

14.2 bearer channel identification (BCI)

GSM Reference:	TS 101 298 (GSM 08.14)
Q3 Name:	frBearerChannelId
Modification:	Read only
Range:	0..63
MML Default:	-
Description:	With this parameter you identify the bearer channel with a

	decimal number.
Related command(s):	FWC

14.3 bearer channel name (BCN)

GSM reference:	No ref.
Q3 name:	frBearerChannelName
Modification:	Read only
Range:	String of up to 10 characters
MML default:	-
Description:	With this parameter you identify the bearer channel with a name.
Related command(s):	FWC

14.4 bearer channel name (NEWNAME)

GSM reference:	No ref.
Q3 name:	frBearerChannelName
Modification:	Online
Range:	String of up to 10 characters (A..Z, 0..9, - and _). The first character must be a letter.
MML default:	-
Description:	With this parameter you give a new name to the network service virtual connection. The name must be unique in the BSC
Related command(s):	FWM

14.5 committed information rate (CIR)

GSM Reference:	TS 101 298 (GSM 08.14)
Q3 Name:	committedInfoRate
Modification:	When NS-VC is locked
Range:	ETSI: 16..1984 (kbit/s, steps of 16 kbit/s) ANSI: 16..1536 (kbit/s, steps of 16 kbit/s)
MML Default:	-
Description:	With this parameter you define the committed information rate.
Related command(s):	FWC

14.6 committed information rate (NEWCIR)

GSM reference:	No ref.
Q3 name:	committedInfoRate
Modification:	When NS-VC is locked
Range:	ETSI: 16..1984 (kbit/s, steps of 16 kbit/s) ANSI: 16..1536 (kbit/s, steps of 16 kbit/s)
MML default:	-
Description:	With this parameter you define the new committed information rate.
Related command(s):	FWM

14.7 data link connection identifier (DLCI)

GSM reference:	TS 101 298 (GSM 08.14)
Q3 name:	dataLinkConnectionId
Modification:	Read only
Range:	16..991

MML default:	-
Description:	With this parameter you identify the data link connection identifier.
Related command(s):	FWC

14.8 local UDP port number (LPNBR)

GSM Reference:	ETSI 08.16 version 8.0.0 CR A021r3
Q3 Name:	localUdpPort
Modification:	Read only
Range:	0..65535 (recommended value 50000..65535)
MML Default:	–
Description:	With this parameter you identify the local user datagram protocol (UDP) port number.
Related command(s):	FWC

14.9 network service virtual connection identifier (NSVCI)

GSM reference:	TS 101 299 (GSM 08.16)
Q3 name:	nsVirtualConnectionId
Modification:	Read only
Range:	0..65535
MML default:	-
Description:	With this parameter you identify the permanent virtual circuit.
Related command(s):	FWC, FWD, FWM, FWS, FWO

14.10 network service virtual connection name (NAME)

GSM reference:	No ref.
Q3 name:	nsVirtualConnectionName
Modification:	Online
Range:	String of up to 10 characters (A..Z, 0..9, - and _). The first character must be a letter.
MML default:	No name
Description:	With this parameter you give a name to the network service virtual connection. The name must be unique in the BSC.
Related command(s):	FWC, FWD, FWM, FWS, FWO

14.11 new remote data weight (NEWRDW)

GSM Reference:	ETSI 08.16 version 8.0.0 CR A021r3
Q3 Name:	nsvcConfData::dataWeight
Modification:	Online
Range:	0..255
MML Default:	
Description:	With this parameter you give new remote data weight for load sharing purpose between the SGSN and BSS. Remote data weight cannot be modified in dynamic configuration.
Related command(s):	FWM

14.12 new remote signalling weight (NEWRSW)

GSM Reference:	ETSI 08.16 version 8.0.0 CR A021r3
Q3 Name:	nsvcConfData::signWeight
Modification:	Online
Range:	0..255
MML Default:	–
Description:	With this parameter you give new remote signalling weight for load sharing purpose between the SGSN and BSS. Remote signalling weight cannot be modified in dynamic configuration
Related command(s):	FWM

14.13 PCU logical index (PCU)

GSM Reference:	No ref.
Q3 Name:	pcuID
Modification:	Read only
Range:	0..65535
MML Default:	–
Description:	With this parameter you identify the packet control unit logical index.
Related command(s):	FWC

14.14 preconfigured SGSN IP endpoint (PRE)

GSM Reference:	ETSI 08.16 version 8.0.0 CR A021r3
Q3 Name:	preconfSgsnIpEpInd
Modification:	Read only

Range:	Y/N
MML Default:	–
Description:	With this parameter you identify whether the SGSN IP endpoint is dynamic (preconfigured) or static. If the parameter PRE is set to Yes (PRE=Y), then the configuration is dynamic. If PRE is set to No (PRE=N), then the configuration is static.
Related command(s):	FWC

14.15 remote data weight (RDW)

GSM Reference:	ETSI 08.16 version 8.0.0 CR A021r3
Q3 Name:	nsvcConfData::dataWeight
Modification:	Read only
Range:	0..255
MML Default:	–
Description:	With this parameter you identify the remote data weight for static configuration.
Related command(s):	FWC

14.16 remote IP address (RIP)

GSM Reference:	ETSI 08.16 version 8.0.0 CR A021r3
Q3 Name:	nsvcConfData::ipAddress
Modification:	Read only
Range:	0.0.0.0 .. 255.255.255.255
MML Default:	–
Description:	With this parameter you identify the remote IP address (IPv4 type of IP address).

Related command(s): FWC

14.17 remote signalling weight (RSW)

GSM Reference: ETSI 08.16 version 8.0.0
CR A021r3

Q3 Name: nsvcConfData::signWeight

Modification: Read only

Range: 0..255

MML Default: –

Description: With this parameter you identify the remote signalling weight for static configuration.

Related command(s): FWC

14.18 remote UDP port number (RPNBR)

GSM Reference: ETSI 08.16 version 8.0.0
CR A021r3

Q3 Name: nsvcConfData::udpPort

Modification: Read only

Range: 0..65535 (recommended value 50000..65535)

MML Default: –

Description: With this parameter you identify the remote user datagram protocol (UDP) port number.

Related command(s): FWC

15 Trunk reservation decision threshold table (TRK_TBL), optional (Improved trunk reservation (TR))

15.1 decision threshold values (T1-T16)

GSM reference:	No ref.
Q3 name:	decisionThresholdValues
Modification:	Online
Range:	0..65535
MML default:	65535
Description:	Decision Threshold values are used in the Trunk Reservation service request acceptance procedure.
Related command(s):	ETC, ETM

15.2 random value upper limit

GSM reference:	No ref.
Q3 name:	randomValueLimit
Modification:	Online
Range:	0..65535
MML default:	65535
Description:	Upper limit for the random value that is used in the Trunk

	Reservation algorithm.
Related command(s):	ETC, ETM, ETO

15.3 table identification (TBL)

GSM reference:	No ref.
Q3 name:	trunkTable-ID
Modification:	Read only
Range:	1..64
MML default:	-
Description:	Identification of a Trunk Reservation Decision Threshold Table in a BSC.
Related command(s):	ETC, ETD, ETM, ETO, EQT

16 Transceiver (TRX)

16.1 administrative state

GSM reference:	No ref.
Q3 name:	administrativeState
Modification:	Online/Offline
Range:	U (unlocked) L (locked)
MML default:	L
Description:	With this parameter you identify the state into which the administrative state of the TRX object will be changed.
Related command(s):	ERO, ERS, EEI

16.2 autoconfigure (AC)

GSM reference:	No ref.
Q3 name:	autoConfig
Modification:	Read only
Range:	Y/N
MML default:	N
Description:	With this parameter you define whether the TRX is created to be autoconfigured.
Related command(s):	ERC

Note:	OPTIONAL (Abis autoconfiguration in use) The parameter is only allowed for Nokia MetroSite, Nokia InSite and Nokia UltraSite.

16.3 background cell identification of interfering cell 1-10 (BCI1-BCI10)

GSM reference:	No ref.
Q3 name:	backgroundDBAttributes: trxIntfCell
Modification:	Online
Range:	0..65535
MML default:	-
Description:	With these parameters you define the cell identification used as background data. In background data activation (EE command group), background data is swapped with active data.
Related command(s):	ERY, ERO
Note:	OPTIONAL (Intelligent Underlay Overlay)

16.4 background C/I estimation type 110 (BT1-BT10)

GSM reference:	No ref.
Q3 name:	backgroundDBAttributes: trxIntfCell
Modification:	Online
Range:	0 ... measured interference level 1 ... interference level estimate
MML default:	-
Description:	With these parameters you define the estimation type of the interfering cell signal level used as background data. In background data activation (EE command group), background data is swapped with active data.
Related command(s):	ERY, ERO

Note: OPTIONAL (Intelligent Underlay Overlay)

16.5 background C/I estimation weight 1-10 (BW1-BW10)

GSM reference: No ref.

Q3 name: backgroundDBAttributes: trxIntfCell

Modification: Online

Range: 0..10

ND (not defined)

MML default: -

Description: With these parameters you define the weighting coefficient of the interfering cell used as background data. In background activation (EE command group), background data is swapped with active data.

Related command(s): ERY, ERO

Note: OPTIONAL (Intelligent Underlay Overlay)

16.6 background direct access level (BDAL)

GSM reference: No ref.

Q3 name: backgroundDBAttributes: directAccessLevel

Modification: Online

Range: -109...-47

N (disabled)

ND (not defined)

MML default: -

Description: With this parameter you define the direct access level used as background data. In background data activation (EE command group), background data is swapped with active data.

Related command(s): ERM, ERO

Note: OPTIONAL (Intelligent Underlay Overlay OR Intelligent Coverage Enhancement)

16.7 background frequency (BFREQ)

GSM reference: No ref.

Q3 name: backgroundDBAttributes: initialFrequency

Modification: Online

Range: GSM 800: 128 .. 251

GSM 900: 1..124, 975..1023, 0 and ND (not defined)

GSM 1800: 512..885 and ND

GSM 1900: 512..810 and ND

MML default: -

Description: With this parameter you define the frequency used as background data. In background data activation (EE command group), background data is swapped with active data.

The value range of Primary GSM is 1...124. The value range of Extended GSM is 975...1023, 0. Extended GSM is not supported by Nokia 2nd generation site type.

There are forbidden and attenuated frequencies in the case of GSM 800 or GSM 1900.

Related command(s): ERM, ERO

16.8 background level adjustment 1-10 (BL1-BL10)

GSM reference: No ref.

Q3 name: backgroundDBAttributes: trxIntfCell

Modification: Online

Range: -63..63 (dB)

MML default: -

Description: With these parameters you define the level adjustment used as background data. In background data activation (EE command group), background data is swapped with active data.

Related command(s): ERY, ERO

Note: OPTIONAL (Intelligent Underlay Overlay)

16.9 background location area code of interfering cell 1-10 (BLAC1-BLAC10)

GSM reference: No ref.

Q3 name: backgroundDBAttributes: trxIntfCell

Modification: Online

Range: 0..65535

MML default: -

Description: With these parameters you define the location area code used as background data. In background data activation (EE command group), background data is swapped with active data.

Related command(s): ERY, ERO

Note: OPTIONAL (Intelligent Underlay Overlay)

16.10 background optimum RX level uplink (BLEV)

GSM reference: No ref.

Q3 name: backgroundDBAttributes: optimumRxLevUL

Modification: Online

Range: -109..-47 (dBm)

N (not used)

ND (not defined)

MML default: -

Description: With this parameter you define the optimum RX uplink level used

	as background data. In background data activation (EE command group), background data is swapped with active data.
Related command(s):	ERM, ERO

16.11 background training sequence code (BTSC)

GSM reference:	No ref.
Q3 name:	backgroundDBAttributes: tsc
Modification:	Online
Range:	0..7 ND (not defined)
MML default:	-
Description:	With this parameter you define the training sequence code used as background data. In background data activation (EE command group), background data is swapped with active data.
Related command(s):	ERM, ERO

16.12 background TRX frequency type (BFRT)

GSM reference:	No ref.
Q3 name:	backgroundDBAttributes: trxFrequencyType
Modification:	Online
Range:	0..16, ND (not defined)
MML default:	-
Description:	With this parameter you define the TRX frequency type used as background data. In background data activation (EE command group), background data is swapped with active data.
Related command(s):	ERM, ERO
Note:	OPTIONAL (Intelligent Underlay Overlay OR Intelligent Coverage Enhancement)

16.13 binary outputs (ON/OFF)

GSM reference:	No ref.
Q3 name:	bcfOutputs
Modification:	Online
Range:	4 ON/OFF-type outputs
MML default:	all outputs OFF
Description:	With this parameter you indicate which binary outputs are in the ON and OFF state. The outputs are identified by a number.
Related command(s):	ERT, ERO
Note:	The parameter exists only for Nokia PrimeSite.

16.14 bit rate (BR)

GSM reference:	No ref.
Q3 name:	bitRate
Modification:	Read only
Range:	8, 16, 32, 64 (kbps)
MML default:	-
Description:	With this parameter you define the bit rate of the D-channel telecom signalling link of the TRX.
Related command(s):	ERC
Note:	OPTIONAL (Abis autoconfiguration in use) The parameter is only allowed for Nokia MetroSite, Nokia InSite and Nokia UltraSite.

16.15 cell identification of interfering cell 1-10 (CI1-CI10)

GSM reference:	No ref.
Q3 name:	trxIntfCell
Modification:	Online
Range:	0..65535
MML default:	-
Description:	With these parameters you define which interfering cell you want to handle.
Related command(s):	ERY, ERO
Note:	OPTIONAL (Intelligent Underlay Overlay)

16.16 C/I estimation type 1-10 (T1-T10)

GSM reference:	No ref.
Q3 name:	-
Modification:	Online
Range:	0 (measured interference level) 1 (interference level estimate)
MML default:	0
Description:	With these parameters you indicate whether the signal level of the interfering cell is considered as a directly measured interference level, or if the signal level of the interfering cell is a reference value which is used for calculating an estimation of the interference level.
Related command(s):	ERY, ERO
Note:	OPTIONAL (Intelligent Underlay Overlay)

16.17 C/I estimation weight 1-10 (W1-W10)

GSM reference:	No ref.
Q3 name:	-
Modification:	Online
Range:	0..10 Value 10 is the highest weighting
MML default:	1
Description:	With these parameters you indicate the weighting coefficient of the interfering cell. The value 0 detaches the corresponding interfering cell from the transceiver.
Related command(s):	ERY, ERO
Note:	OPTIONAL (Intelligent Underlay Overlay)

16.18 combi link (CL)

GSM reference:	No ref.
Q3 name:	combinedSignalling
Modification:	Read only
Range:	Y/N
MML default:	N
Description:	With this parameter you define whether the D-channel O&M and telecom signalling links are combined.
Related command(s):	ERC
Note:	OPTIONAL (Abis autoconfiguration in use) The parameter is only allowed for Nokia MetroSite and Nokia InSite.

16.19 D-channel O & M link set name (ONAME)

GSM reference:	No ref.
Q3 name:	-
Modification:	Online
Range:	String of up to 5 characters ('A'..'Z','0'..'9'). The first character must be a letter.
MML default:	-
Description:	With this parameter you indicate the D-channel O&M link set name of the TRX.
Related command(s):	ERC, ERM, ERO, EEI
Note:	The parameter exists only for Nokia PrimeSite. Changing the parameter causes a temporary break in O&M signalling.

16.20 D-channel O & M link set number (ONBR)

GSM reference:	No ref.
Q3 name:	omLapdLinkNumber
Modification:	Online
Range:	0..65535
MML default:	-
Description:	With this parameter you indicate the D-channel O&M link set number of the TRX.
Related command(s):	ERC, ERM, ERO
Note:	The parameter exists only for Nokia PrimeSite. Changing the parameter causes a temporary break in O&M signalling.

16.21 D-channel telecom link set name (DNAME)

GSM reference:	No ref.
Q3 name:	userLabel
Modification:	Read only
Range:	String of up to 5 characters ('A'..'Z','0'..'9'). The first character must be a name.
MML default:	-
Description:	With this parameter you indicate the D-channel telecom link set name of the TRX's signalling link.
Related command(s):	ERC, ERO

16.22 D-channel telecom link set number (DNBR)

GSM reference:	No ref.
Q3 name:	lapdLinkNumber
Modification:	Read only
Range:	0..65535
MML default:	-
Description:	With this parameter you indicate the D-channel telecom link set number of the TRX's signalling link.
Related command(s):	ERC, ERO

16.23 direct access level (DAL)

GSM reference:	No ref.
Q3 name:	directAccessLevel
Modification:	Online
Range:	-109...-47

	N (disabled)
MML default:	N
Description:	With this parameter you indicate whether direct access to a super-reuse TRX is enabled. The parameter also determines the level which the downlink signal level on the super-reuse TRX must exceed in order for the direct access procedure to become possible.
Related command(s):	ERC, ERM, ERO
Note:	OPTIONAL (Intelligent Underlay Overlay OR Intelligent Coverage Enhancement)

16.24 dynamic Abis pool ID (DAP)

GSM reference:	No ref.
Q3 name:	daPool-ID
Modification:	Read only
Range:	1 .. 470 N
MML default:	N
Description:	With this parameter you indicate the dynamic Abis pool id. This can be given only if the site type is Nokia MetroSite, Nokia InSite or Nokia UltraSite.
Related command(s):	ERC, ERO
Note:	OPTIONAL (DYN_ABIS_IN_USE and ECSD_IN_USE)

16.25 E-TRX type (ETRX)

GSM reference:	No ref.
Q3 name:	eTrxInd
Modification:	When TRX is locked

Range:	N (the TRX is a normal TRX) E (the TRX is an extended TRX)
MML default:	N
Description:	With this parameter you define whether the TRX is working as an extended TRX (E-TRX) or a normal TRX (N-TRX).
Related command(s):	ERC, ERM, ERO, EEI
Note:	OPTIONAL (Extended cell radius) Only site types Nokia Talk-family and Nokia UltraSite can have the value E.

16.26 frequency (FREQ)

GSM reference:	No ref.
Q3 name:	initialFrequency
Modification:	When TRX is locked
Range:	GSM 800: 128 .. 251 GSM 900: 1..124 and 975..1023, 0 GSM 1800: 512..885 GSM 1900: 512..810
MML default:	-
Description:	With this parameter you assign the ARFCN (absolute radio frequency number) to the transceiver.
Related command(s):	ERC, ERM, ERO, EEI
Note:	Check adjacent cell parameters if the TRX is a BCCH TRX. Frequency must be unique within the BTS.

16.27 GPRS enabled TRX (GTRX)

GSM reference:	No ref.
Q3 name:	GPRSenabledTRX

Modification:	Online when GPRS is disabled in the cell, otherwise when BTS is locked
Range:	Y/N
MML default:	Y
Description:	With this parameter you define whether the GPRS capability is enabled or disabled for the current TRX.
Related command(s):	ERM, ERO, ERC
Note:	OPTIONAL (Gb Interface functionality)

16.28 level adjustment 1-10 (L1-L10)

GSM reference:	No ref.
Q3 name:	-
Modification:	Online
Range:	-63..63 (dB)
MML default:	0
Description:	With these parameters you can affect the adjustment levels of the interfering cells. On the basis of this parameter, the system calculates an estimation of the interference level from the signal level of the interfering cell.
Related command(s):	ERY, ERO
Note:	OPTIONAL (Intelligent Underlay Overlay)

16.29 location area code of interfering cell 1-10 (LAC1-LAC10)

GSM reference:	No ref.
Q3 name:	-
Modification:	Online

Range:	0..65535
MML default:	-
Description:	With these parameters you define in which area the interfering cell in question is located.
Related command(s):	ERY, ERO
Note:	OPTIONAL (Intelligent Underlay Overlay)

16.30 O & M link location (OLOC)

GSM reference:	No ref.
Q3 name:	omuLinkLocation
Modification:	When TRX is locked.
Range:	Nokia Talk-family: 0..7, N Nokia PrimeSite: 0..7 Nokia MetroSite: 0..7, N
MML default:	Nokia Talk-family: N Nokia PrimeSite: 0 Nokia MetroSite: N
Description:	With this parameter you define from where the allocation of the D-channel O&M link starts. The parameter specifies the subslot (SUB-TSL) in the first time slot of TRX's speech allocation. The value N means: No O&M link connection.
Related command(s):	ERC, ERM, ERO
Note:	OPTIONAL (ISDN Abis) The parameter cannot be used at a Nokia 2nd generation base stations site. When the site type is Nokia Talk-family and the TRX has an O&M link connection defined, both TRX and BCF have to be locked. In the case of site type Nokia Talk-family, you can define this parameter only for one TRX per BCF.

16.31 optimum RX level downlink (LEVD)

GSM reference:	No ref.
Q3 name:	optimumRxLevDL
Modification:	Online
Range:	-109..-47 (dBm) N (not used)
MML default:	N
Description:	With this parameter you define the optimum downlink RF signal level. The optimum level ensures that both speech and data quality are sufficient simultaneously, and that there is no downlink interference.
Related command(s):	ERC, ERM, ERO

16.32 optimum RX level uplink (LEV)

GSM reference:	No ref.
Q3 name:	optimumRxLevUL
Modification:	Online
Range:	-109..-47 (dBm) N (not used)
MML default:	N
Description:	With this parameter you define the optimum uplink RF signal level. The optimum level ensures that both speech and data quality are sufficient simultaneously, and that there is no uplink interference.
Related command(s):	ERC, ERM, ERO

16.33 preferred BCCH TRX (PREF)

GSM reference:	No ref.
Q3 name:	preferredBCCHMark
Modification:	Online
Range:	N ... The TRX is a normal TRX P ... The TRX is a preferred TRX
MML default:	N
Description:	With this parameter you mark one or more TRXs as preferred TRXs where the BCCH is reconfigured, if possible.
Related command(s):	ERC, ERM, ERO, EEI

16.34 subslots for signalling (SIGN)

GSM reference:	No ref.
Q3 name:	subslotsForSignalling
Modification:	Read-only
Range:	0..4
MML default:	0
Description:	With this parameter you define how many subslots from the beginning of the TRX Abis allocation (Abis speech allocation) are reserved for signalling when you create a TRX. One subslot equals one radio time slot or two bits in the ET-PCM.
Related command(s):	ERC, ERO

16.35 training sequence code (TSC)

GSM reference:	I-ETS 300 022-1 (GSM 04.08) I-ETS 300 030 (GSM 05.02)
Q3 name:	tsc

Modification:	When TRX is locked
Range:	0..7
MML default:	-
Description:	With this parameter you define the the training sequence code (TSC) of a carrier.
Related command(s):	ERC, ERM, ERO

16.36 transceiver identification (TRX)

GSM reference:	No ref.
Q3 name:	transceiver-ID
Modification:	Read only
Range:	1..16
MML default:	-
Description:	With this parameter you identify the transceiver. The value you enter for this parameter must be unique for each transceiver within one BCF.
Related command(s):	ERC, ERD, ERO

16.37 TRX frequency type (FRT)

GSM reference:	No ref.
Q3 name:	trxFrequencyType
Modification:	If TRX is BCCH TRX and HOP=BB, BTS must be locked. If TRX is BCCH TRX and UHOP=BB, BTS must be locked. In other cases, TRX must be locked.
Range:	0..16
MML default:	0 (regular)
Description:	With this parameter you define the type of the TRX's radio frequency used with the optional Intelligent Underlay-Overlay

	feature. Values from 1 to 16 indicate that the radio frequency is super-reused. They also show the number of a super-reuse frequency group where the super-reused frequency belongs. If the type of radio frequency is regular, the value is 0.
Related command(s):	ERC, ERM, ERO, EEI
Note:	OPTIONAL (Intelligent Underlay Overlay OR Intelligent Coverage Enhancement)

16.38 TRX half rate support (HRS)

GSM reference:	No ref.
Q3 name:	halfRateSupport
Modification:	Online
Range:	Y/N
MML default:	Y
Description:	With this parameter you define whether the TRX hardware supports half rate. The parameter is a flag for statistics.
Related command(s):	ERC, ERM, ERO
Note:	OPTIONAL (Half Rate)

16.39 TRX identification with frequency (IFREQ)

GSM reference:	No ref.
Q3 name:	-
Modification:	Read only
Range:	GSM 800: 128 .. 251 GSM 900: 1..124 and 975..1023, 0 GSM 1800: 512..885 GSM 1900: 512..810
MML default:	-

Description:	With this parameter you identify the transceiver with its frequency number.
Related command(s):	ERD, ERM, ERY, ERO, ERS

16.40 TRX link location (TLOC)

GSM reference:	No ref.
Q3 name:	trxLinkLocation
Modification:	When TRX is locked
Range:	0..7 (bit)
MML default:	0
Description:	With this parameter you define from where the allocation of the D-channel telecom link starts. The parameter specifies the SUB-TSL in the first time slot of TRX's speech allocation.
Related command(s):	ERC, ERM, ERO
Note:	OPTIONAL (ISDN Abis) When the site type is Nokia Talk-family and the TRX has an O&M link connection defined, both TRX and BCF have to be locked.

16.41 TRX telephone number (TEL)

GSM reference:	No ref.
Q3 name:	trxTelephoneNumber
Modification:	When TRX is locked
Range:	0000..99999999999999999999, from 4 to 20 digits
MML default:	0000
Description:	With this parameter you define the telephone number of the ISDN TRX.
Related command(s):	ERC, ERM, ERO
Note:	OPTIONAL (ISDN Abis)

16.42 TRX transmission type (TRA)

GSM reference:	No ref.
Q3 name:	isdnTrx
Modification:	Read only
Range:	NORM (the TRX transmission type is normal) ISDN (the TRX transmission type is ISDN)
MML default:	NORM
Description:	With this parameter you define whether the TRX is an ISDN TRX or not.
Related command(s):	ERC, ERO, EEI
Note:	OPTIONAL (ISDN Abis) Value ISDN is not possible for Nokia 2nd generation and Nokia InSite base stations.

16.43 TRX type (FLO)

GSM reference:	No ref.
Q3 name:	floatingMode
Modification:	Read only
Range:	F (TRX is a floating TRX) N (TRX is a normal TRX)
MML default:	N
Description:	With this parameter you define whether the TRX is a floating TRX.
Related command(s):	ERC, ERO, EEI
Note:	The parameter is relevant when the site type is Nokia Talk-family of base stations. A floating type TRX can contain traffic channels and NOTUSED channels.

17 Radio timeslot (RTSL)

17.1 Abis speech circuit (PCMTSL)

GSM reference:	No ref.
Q3 name:	terrTrafChannel
Modification:	Read only
Range:	PCM: 1..255 TSL: in ETSI 1..30, in ANSI 1..23 SUBSLOT: 0..3
MML default:	-
Description:	With this parameter you define the Abis speech channel allocation of the TRX. The parameter consists of the ET-PCM number and the time slot number. The system allocates the radio time slots to a subslot.
Related command(s):	ERC, ERO

17.2 administrative state

GSM reference:	No ref.
Q3 name:	administrativeState
Modification:	Online/Offline
Range:	U (unlocked) L (locked)
MML default:	U

Description: With this parameter you identify the state into which the administrative state of the object will be changed.

Related command(s): ERO, ERS

17.3 RTSL type 0-7 (CH0-CH7)

TCHF	Full rate traffic channel
TCHH	Half rate traffic channel
TCHD	Dual rate traffic channel
ERACH	Random access channel of extended area
NOTUSED	RTSL does not have radio definition or Abis allocation
SDCCH	Dedicated control channel (SDCCH/8)
MBCCH	Broadcast control channel
MBCCHC	Broadcast control channel combined with SDCCH (BCCH +SDCCH/4)
MBCCB	Broadcast control channel combined with SDCCH and CBCH (BCCH+SDCCH/4+CBCH)
SDCCB	SDCCH with CBCH
MPBCCH	Packet control channel (PBCCH + PCCCH + PDTCH + PACCH + PTCCH) <option>

GSM reference: I-ETS 300 030 (GSM 05.02)

Q3 name: channelType

Modification: When TRX is locked

Range: TCHF, TCHH, TCHD, ERACH, NOTUSED, SDCCH, MBCCH, MBCCHC, MBCCB, SDCCB, MPBCCH

MML default: TCHF

Description: With this parameter you define the logical channel combination that has to be mapped onto the basic physical channel.

Related command(s): ERC, ERM, ERO, EEI

18 LCS element (LCS), optional (MS Locationing)

18.1 A Hata (AHA)

GSM reference:	No ref.
Q3 name:	aHata
Modification:	Online
Range:	-250 ... 250 (dB)
MML default:	0
Description:	With this parameter you define the parameter A_{Hata} that is needed to adjust the 1 km intercept of the path-loss calculated with the Okumura-Hata propagation model.
Related command(s):	EXC, EXM, EXH, EXT, EXO

18.2 altitude of ground level (AL)

GSM reference:	No ref.
Q3 name:	coordinates
Modification:	Online
Range:	0 ... 10000 m
MML default:	-
Description:	With this parameter you define the ground level altitude for coordinates, in metres.

Related command(s):	EXC, EXM, EXA, EXB, EXH, EXT, EXO

18.3 antenna bearing (ABE)

GSM reference:	No ref.
Q3 name:	antBearing
Modification:	Online
Range:	0 ... 359 degrees
MML default:	ND
Description:	With this parameter you define the antenna direction in degrees, referred to North direction.
Related command(s):	EXC, EXM, EXO

18.4 antenna height (AHE)

GSM reference:	No ref.
Q3 name:	antHeight
Modification:	Online
Range:	0 ... 1000 m
MML default:	40
Description:	With this parameter you specify the height of the antenna in metres, measured above the ground level.
Related command(s):	EXC, EXM, EXO

18.5 antenna horizontal half power beam width (AHB)

GSM reference:	No ref.
Q3 name:	antHorHalfPwrBeam
Modification:	Online
Range:	0 ... 360 degrees
MML default:	360
Description:	With this parameter you define the half power beam width (3 dB angle) of the antenna in the horizontal plane.
Related command(s):	EXC, EXM, EXO

18.6 antenna minimum front to back ratio (AR)

GSM reference:	No ref.
Q3 name:	minFrtToBckRatio
Modification:	Online
Range:	0 ... 250 (dB)
MML default:	0
Description:	With this parameter you define the minimum front to back ratio of the antenna.
Related command(s):	EXC, EXM, EXO

18.7 antenna tilt angle (ATA)

GSM reference:	No ref.
Q3 name:	antTiltAngle
Modification:	Online
Range:	-90 ... 90 degrees
MML default:	0

Description: With this parameter you define the antenna tilt to the horizontal plane, increasing from top to down.

Related command(s): EXC, EXM, EXO

18.8 antenna tilt type (ATY)

GSM reference: No ref.

Q3 name: antTiltType

Modification: Online

Range: 1…2

MML default: 1

Description: With this parameter you define the type of antenna tilt (Mechanical/Electrical).

Related command(s): EXC, EXM, EXO

18.9 antenna vertical half power beam width (AVB)

GSM reference: No ref.

Q3 name: antVerHalfPwrBeam

Modification: Online

Range: 0 ... 360 degrees

MML default: ND

Description: With this parameter you define the half power beam width (3 dB angle) of the antenna in the vertical plane.

Related command(s): EXC, EXM, EXO

18.10 B Hata (BHA)

GSM reference:	No ref.
Q3 name:	bHata
Modification:	Online
Range:	-250 ... 250 (dB)
MML default:	0
Description:	With this parameter you define the parameter B_{Hata} that is needed to adjust the slope of the path-loss calculated with the Okumura-Hata propagation model.
Related command(s):	EXC, EXM, EXH, EXT, EXO

18.11 BCCH frequency (FREQ)

GSM reference:	No ref.
Q3 name:	bCCHFrequency
Modification:	Online
Range:	0...1023
MML default:	Obligatory in creation when LCSE not connected to any segment, otherwise read from RNW db.
Description:	With this parameter you define the frequency of the BCCH. BCCH Frequency is used to identify frequency which will be used by LMU and MS to measure RIT / OTD between segments.
Related command(s):	EXC, EXM, EXO

18.12 BTS colour code (BCC)

GSM reference:	No ref.
Q3 name:	bsIdentityCode
Modification:	Online

Range:	0...7
MML default:	Obligatory in creation when LCSE not connected to any segment, otherwise read from RNW db.
Description:	With this parameter you define the BTS colour code which is part of the base transceiver station identity code (BSIC).
Related command(s):	EXC, EXM, EXO

18.13 cell identification (CI)

GSM reference:	No ref.
Q3 name:	CellId
Modification:	Online
Range:	0 ... 65535
MML default:	-
Description:	With this parameter you define the cell identification for the LCS element to be created.
Related command(s):	EXC, EXD, EXM, EXO

18.14 cell type (CET)

GSM reference:	No ref.
Q3 name:	hierarchicalCellType
Modification:	Online
Range:	1 ... 4
MML default:	1
Description:	The parameter describes the type of cell (Macro/Micro/Nano/Pico).
Related command(s):	EXC, EXM, EXH, EXT, EXO

18.15 city type (CIT)

GSM reference:	No ref.
Q3 name:	cityType
Modification:	Online
Range:	1 ... 2
MML default:	2
Description:	With this parameter you define the type of city, needed in the Okumura-Hata propagation model (Small-Medium/Large).
Related command(s):	EXC, EXM, EXH, EXT, EXO

18.16 coverage type (COT)

GSM reference:	No ref.
Q3 name:	coverageType
Modification:	Online
Range:	1 ... 2
MML default:	1
Description:	With this parameter you define the type of coverage (Outdoor/ Indoor).
Related command(s):	EXC, EXM, EXH, EXT, EXO

18.17 hearability level (HL)

GSM reference:	No ref.
Q3 name:	hearLevel
Modification:	Online
Range:	0 ... 250 (-dBm)

MML default:	ND
Description:	With this parameter you define the reference level of the signal received by the MS.
Related command(s):	EXC, EXM, EXH, EXT, EXO

18.18 latitude degrees (LAD)

GSM reference:	No ref.
Q3 name:	coordinates
Modification:	Online
Range:	-90 ... 90 degrees
MML default:	-
Description:	With this parameter you define the degrees of latitude for the BCCH BTS TX-antenna.
Related command(s):	EXC, EXM, EXA, EXB, EXH, EXT, EXO

18.19 latitude fractions (LAF)

GSM reference:	No ref.
Q3 name:	coordinates
Modification:	Online
Range:	0 ... 99
MML default:	-
Description:	With this parameter you define the fractions of latitude seconds for the BCCH BTS TX-antenna.
Related command(s):	EXC, EXM, EXA, EXB, EXH, EXT, EXO

18.20 latitude minutes (LAM)

GSM reference:	No ref.
Q3 name:	coordinates
Modification:	Online
Range:	0 ... 59 minutes
MML default:	-
Description:	With this parameter you define the minutes of latitude for the BCCH BTS TX-antenna.
Related command(s):	EXC, EXM, EXA, EXB, EXH, EXT, EXO

18.21 latitude seconds (LAS)

GSM reference:	No ref.
Q3 name:	coordinates
Modification:	Online
Range:	0 ... 59 seconds
MML default:	-
Description:	With this parameter you define the seconds of latitude for the BCCH BTS TX-antenna.
Related command(s):	EXC, EXM, EXA, EXB, EXH, EXT, EXO

18.22 LCS element IDs (LCSE)

GSM reference:	No ref.
Q3 name:	lcsElement-ID
Modification:	Online
Range:	LAC-CI (&) (0 ... 65535)-(0 ... 65535)

MML default: all

Description: With this parameter you define the LCS elements you want to output.

Related command(s): EXO

18.23 LCS neighbour (LCSN)

GSM reference: No ref.

Q3 name: lcsNeighbors

Modification: Online

Range: LAC-CI (&) (0 ... 65535)-(0 ... 65535)

MML default: Empty list

Description: With this parameter you define the LCS element ids of those segments or BTSs that are LCS neighbours of this LCS element.

LCS neighbour segments have to be defined for every serving segment which will be used with method E-OTD. Only LCS neighbour segments (and serving segment) can be involved to E-OTD method location calculation.

MS needs LCS neighbour information to measure needed OTD values and inform them to the network.

Related command(s): EXC, EXM, EXO

18.24 location area code (LAC)

GSM reference: No ref.

Q3 name: LocationAreaCode

Modification: Online

Range: 0 ... 65535

MML default: -

Description: With this parameter you define the location area code for the LCS element to be created.

Related command(s):	EXC, EXD, EXM, EXO

18.25 longitude degrees (LOD)

GSM reference:	No ref.
Q3 name:	coordinates
Modification:	Online
Range:	-180 ... 180 degrees
MML default:	-
Description:	With this parameter you define the degrees of longitude for the BCCH BTS TX-antenna.
Related command(s):	EXC, EXM, EXA, EXB, EXH, EXT, EXO

18.26 longitude fractions (LOF)

GSM reference:	No ref.
Q3 name:	coordinates
Modification:	Online
Range:	0 ... 99
MML default:	-
Description:	With this parameter you define the fractions of longitude seconds for the BCCH BTS TX-antenna.
Related command(s):	EXC, EXM, EXA, EXB, EXH, EXT, EXO

18.27 longitude minutes (LOM)

GSM reference:	No ref.
Q3 name:	coordinates
Modification:	Online
Range:	0 ... 59 minutes
MML default:	-
Description:	With this parameter you define the minutes of longitude for the BCCH BTS TX-antenna.
Related command(s):	EXC, EXM, EXA, EXB, EXH, EXT, EXO

18.28 longitude seconds (LOS)

GSM reference:	No ref.
Q3 name:	coordinates
Modification:	Online
Range:	0 ... 59 seconds
MML default:	-
Description:	With this parameter you define the seconds of longitude for the BCCH BTS TX-antenna.
Related command(s):	EXC, EXM, EXA, EXB, EXH, EXT, EXO

18.29 maximum radiated power (MRP)

GSM reference:	No ref.
Q3 name:	maxRadPwr
Modification:	Online
Range:	0 ... 50 (dBW)
MML default:	ND

Description:	With this parameter you define the maximum power radiated at the output of the transmit antenna.
Related command(s):	EXC, EXM, EXO

18.30 network colour code (NCC)

GSM reference:	No ref.
Q3 name:	bsIdentityCode
Modification:	Online
Range:	0...7
MML default:	Obligatory in creation when LCSE not connected to any segment, otherwise read from RNW db.
Description:	With this parameter you define the network colour code which is part of the base transceiver station identity code (BSIC).
Related command(s):	EXC, EXM, EXO

18.31 predicted back hearability radius (BHR)

GSM reference:	No ref.
Q3 name:	predBckHearRad
Modification:	Online
Range:	0 ... 125000 m
MML default:	ND
Description:	With this parameter you define the distance from the BTS below which the BCCH of the BTS is measured in 99% of the cases with a level at least equal to a user-defined hearability level (HL) in the direction outside the main beam of the transmit antenna.
Related command(s):	EXC, EXM, EXH, EXT, EXO

18.32 predicted back serving radius (BSR)

GSM reference:	No ref.
Q3 name:	predBckServRad
Modification:	Online
Range:	0 ... 125000 m
MML default:	ND
Description:	With this parameter you define the distance from the repeater below which the repeater is serving in 99% of the cases in the direction outside the main beam of the transmit antenna.
Related command(s):	EXC, EXM, EXH, EXT, EXO

18.33 predicted front hearability radius (FHR)

GSM reference:	No ref.
Q3 name:	predFrtHearRad
Modification:	Online
Range:	0 ... 125000 m
MML default:	ND
Description:	With this parameter you define the distance from the BTS below which the BCCH of the repeater is measured in 99% of the cases with a level at least equal to a user-defined hearability level (HL).
Related command(s):	EXC, EXM, EXH, EXT, EXO

18.34 predicted front serving radius (FSR)

GSM reference:	No ref.
Q3 name:	predFrtServRad
Modification:	Online

Range:	0 ... 125000 m
MML default:	ND
Description:	With this parameter you define the distance from the BTS below which the BTS is serving in 99% of the cases.
Related command(s):	EXC, EXM, EXH, EXT, EXO

18.35 time slot scheme (TSS)

GSM reference:	No ref.
Q3 name:	timeSlotScheme
Modification:	Online
Range:	1…2
MML default:	1
Description:	With this parameter you define the time slot scheme of the BTSs for the segment.
Related command(s):	EXC, EXM, EXO

19 SMLC, optional (pbsUsage)

19.1 LMU reporting format (LRF)

GSM reference:	No ref.
Q3 name:	lmuReportInterval
Modification:	Online
Range:	0...1
MML default:	-
Description:	With this parameter you define the format of the reporting period: '0': Reporting Period is told in tens of seconds. '1': Reporting Period is in tens of minutes.
Related command(s):	EXN, EXQ

19.2 LMU reporting period (LRP)

GSM reference:	No ref.
Q3 name:	lmuReportInterval
Modification:	Online
Range:	0...120
MML default:	-
Description:	With this parameter you define the value for the reporting period. Its units and multiplication factor are defined in the Reporting Format parameter.

Related command(s): EXN, EXQ

20 LMU area (LMU)

20.1 altitude of ground level (AL)

GSM reference:	No ref.
Q3 name:	coordinates
Modification:	Online
Range:	0 ... 10000 m
MML default:	-
Description:	With this parameter you define the ground level altitude of the BCCH BTS TX-antenna in metres.
Related command(s):	EXC, EXM, EXA, EXB, EXH, EXT, EXI
Note:	Optional (MS Locationing)

20.2 base control function identification (BCF)

GSM reference:	No ref.
Q3 name:	lmuEquip
Modification:	Online
Range:	Depends on the BSC hardware configuration and the corresponding options.
MML default:	-
Description:	With this parameter you define the base control function of the LMU equipment.

Related command(s):	EXA, EXB, EXI

20.3 frame number offset (FNO)

GSM reference:	No ref.
Q3 name:	fnOffset
Modification:	Online
Range:	0 ... 51
MML default:	N
Description:	With this parameter you define the frame number offset for FN phasing used in BSS synchronisation.
Related command(s):	EXA, EXB, EXI

20.4 latitude degrees (LAD)

GSM reference:	No ref.
Q3 name:	coordinates
Modification:	Online
Range:	-90 ... 90 degrees
MML default:	-
Description:	With this parameter you define the degrees of latitude for coordinates.
Related command(s):	EXC, EXM, EXA, EXB, EXH, EXT, EXI
Note:	Optional (MS Locationing)

20.5 latitude fractions (LAF)

GSM reference:	No ref.
Q3 name:	coordinates
Modification:	Online
Range:	0 ... 99
MML default:	-
Description:	With this parameter you define the fractions of latitude seconds for coordinates.
Related command(s):	EXC, EXM, EXA, EXB, EXH, EXT, EXI
Note:	Optional (MS Locationing)

20.6 latitude minutes (LAM)

GSM reference:	No ref.
Q3 name:	coordinates
Modification:	Online
Range:	0 ... 59 minutes
MML default:	-
Description:	With this parameter you define the minutes of latitude for coordinates.
Related command(s):	EXC, EXM, EXA, EXB, EXH, EXT, EXI
Note:	Optional (MS Locationing)

20.7 latitude seconds (LAS)

GSM reference:	No ref.
Q3 name:	coordinates
Modification:	Online

Range:	0 ... 59 seconds
MML default:	-
Description:	With this parameter you define the seconds of latitude for coordinates.
Related command(s):	EXC, EXM, EXA, EXB, EXH, EXT, EXI
Note:	Optional (MS Locationing)

20.8 LMU area identification (LMUA)

GSM reference:	No ref.
Q3 name:	lmuArea-ID
Modification:	No
Range:	1 ... 65535
MML default:	-
Description:	With this parameter you define the identification for the LMU area to be created. LMU area is used for Synchronised BSS and/or Position Based Services.
Related command(s):	EXA, EXR, EXB, EXI

20.9 LMU usage (LMUU)

GSM reference:	No ref.
Q3 name:	lmuUsage
Modification:	Online
Range:	1 ... 3
MML default:	Obligatory in creation when MS Locationing is enabled
Description:	With this parameter you define the LMU area usage (Synch/PBS/Both).
Related command(s):	EXA, EXB, EXI

20.10 longitude degrees (LOD)

GSM reference:	No ref.
Q3 name:	coordinates
Modification:	Online
Range:	-180 ... 180 degrees
MML default:	-
Description:	With this parameter you define the degrees of longitude for coordinates.
Related command(s):	EXC, EXM, EXA, EXB, EXH, EXT, EXI
Note:	Optional (MS Locationing)

20.11 longitude fractions (LOF)

GSM reference:	No ref.
Q3 name:	coordinates
Modification:	Online
Range:	0 ... 99
MML default:	-
Description:	With this parameter you define the fractions of longitude seconds for coordinates.
Related command(s):	EXC, EXM, EXA, EXB, EXH, EXT, EXI
Note:	Optional (MS Locationing)

20.12 longitude minutes (LOM)

GSM reference:	No ref.
Q3 name:	coordinates
Modification:	Online
Range:	0 ... 59 minutes
MML default:	-
Description:	With this parameter you define the minutes of longitude for coordinates.
Related command(s):	EXC, EXM, EXA, EXB, EXH, EXT, EXI
Note:	Optional (MS Locationing)

20.13 longitude seconds (LOS)

GSM reference:	No ref.
Q3 name:	coordinates
Modification:	Online
Range:	0 ... 59 seconds
MML default:	-
Description:	With this parameter you define the seconds of longitude for coordinates.
Related command(s):	EXC, EXM, EXA, EXB, EXH, EXT, EXI
Note:	Optional (MS Locationing)

20.14 measured LCS element (MLCS)

GSM reference:	No ref.
Q3 name:	measuredLcsElements
Modification:	Online

Range:	LAC-CI (&) (0 ... 65535)-(0 ... 65535)
MML default:	Empty list
Description:	With this parameter you define the LCS element ids of the segments or BTSs that the LMU measures. The parameter contains a list of LCS element ids of the LCS element instances
Related command(s):	EXA, EXB, EXI
Note:	Optional (MS Locationing)

20.15 reference LCS element (RLCS)

GSM reference:	No ref.
Q3 name:	referenceLcsElement
Modification:	Online
Range:	LAC-CI (&) (0 ... 65535)-(0 ... 65535)
MML default:	-
Description:	With this parameter you define the LCS element whose BCCH frequency will be used as a reference BCCH when the LMU is measuring the RIT values. This ReferenceLcsElement can be thought of as one of the MeasuredLcsElements, so there is no need to include this SEG to MeasuredLcsElements parameter anymore (but it is allowed). If the LMU equipment can not measure this BCCH it will choose another frequency from the MeasuredLcsElements list to be used as the ReferenceLcsElement (but the ReferenceLcsElement which the LMU chose is not updated to this parameter). The parameter contains the LCS element id of the chosen LCS element instance.
Related command(s):	EXA, EXB, EXI
Note:	Optional (MS Locationing)

20.16 transceiver identification (TRX)

GSM reference:	No ref.
Q3 name:	lmuEquip
Modification:	Online
Range:	1 ... 16
MML default:	ND
Description:	With this parameter you define the transceiver unit identification. This parameter is only visible in case of Nokia PrimeSite BTS, otherwise the value is ND.
Related command(s):	EXA, EXB, EXI

20.17 transmission equipment (TRE)

GSM reference:	No ref.
Q3 name:	lmuEquip
Modification:	Online
Range:	2 ... 254
MML default:	-
Description:	With this parameter you define the transmission equipment index and type. The equipment type is always 'Unspecified transmission equipment'.
Related command(s):	EXA, EXB, EXI

21 REPEATER, optional (MS Locationing)

21.1 A Hata (AHA)

GSM reference:	No ref.
Q3 name:	aHataRepMs
Modification:	Online
Range:	-250 ... 250 (dB)
MML default:	0
Description:	With this parameter you define the parameter A_{Hata} that is needed to adjust the 1 km intercept of the path-loss calculated with the Okumura-Hata propagation model. In the repeater object this parameter means specifically the A Hata for the link between the Repeater and the MS.
Related command(s):	EXC, EXM, EXH, EXT, EXL

21.2 A2 Hata (A2H)

GSM reference:	No ref.
Q3 name:	aHataDonRep
Modification:	Online
Range:	-250 ... 250 (dB)
MML default:	0
Description:	With this parameter you define the parameter A'_{Hata} for the link between the donor cell and the repeater. The parameter is needed to adjust the 1 km intercept of the path-loss calculated with the

	Okumura-Hata propagation model.
Related command(s):	EXH, EXT, EXL

21.3 altitude of ground level (AL)

GSM reference:	No ref.
Q3 name:	coordinates
Modification:	Online
Range:	0 ... 10000 m
MML default:	-
Description:	With this parameter you define the altitude for coordinates.
Related command(s):	EXC, EXM, EXA, EXB, EXH, EXT, EXL

21.4 B Hata (BHA)

GSM reference:	No ref.
Q3 name:	bHataRepMs
Modification:	Online
Range:	-250 ... 250 (dB)
MML default:	0
Description:	With this parameter you define the parameter B_{Hata} that is needed to adjust the slope of the path-loss calculated with the Okumura-Hata propagation model. In the repeater object this parameter means specifically the B Hata for the link between the Repeater and the MS.
Related command(s):	EXC, EXM, EXH, EXT, EXL

21.5 B2 Hata (B2H)

GSM reference:	No ref.
Q3 name:	bHataDonRep
Modification:	Online
Range:	-250 ... 250 (dB)
MML default:	0
Description:	With this parameter you define the parameter B'_{Hata} for the link between the donor cell and the repeater. The parameter is needed to adjust the slope of the path-loss calculated with the Okumura-Hata propagation model.
Related command(s):	EXH, EXT, EXL

21.6 cell type (CET)

GSM reference:	No ref.
Q3 name:	hierarchicalCellType
Modification:	Online
Range:	1 ... 4
MML default:	1
Description:	With this parameter you define the type of cell (Macro/Micro/Nano/Pico).
Related command(s):	EXC, EXM, EXH, EXT, EXL

21.7 city type (CIT)

GSM reference:	No ref.
Q3 name:	cityType
Modification:	Online
Range:	1 ... 2

MML default:	2
Description:	With this parameter you define the type of city, needed in the Okumura-Hata propagation model (Small-Medium/Large).
Related command(s):	EXC, EXM, EXH, EXT, EXL

21.8 coverage type (COT)

GSM reference:	No ref.
Q3 name:	coverageType
Modification:	Online
Range:	1 ... 2
MML default:	1
Description:	With this parameter you define the type of coverage (Outdoor/ Indoor).
Related command(s):	EXC, EXM, EXH, EXT, EXL

21.9 donor antenna bearing (DB)

GSM reference:	No ref.
Q3 name:	donAntBearing
Modification:	Online
Range:	0 ... 359 degrees
MML default:	ND
Description:	With this parameter you define the donor antenna direction in degrees, referred to North direction.
Related command(s):	EXH, EXT, EXL

21.10 donor antenna height (DH)

GSM reference:	No ref.
Q3 name:	donAntHeight
Modification:	Online
Range:	0 ... 1000 m
MML default:	40
Description:	With this parameter you specify the height of the donor antenna in metres, measured above the ground level. The donor antenna is the antenna transmitting/receiving to/from the donor cell.
Related command(s):	EXH, EXT, EXL

21.11 donor antenna horizontal half power beam width (DHB)

GSM reference:	No ref.
Q3 name:	donAntHorHalfPwrBeam
Modification:	Online
Range:	0 ... 360 degrees
MML default:	360
Description:	With this parameter you define the half power beam width (3 dB angle) of the donor antenna in the horizontal plane.
Related command(s):	EXH, EXT, EXL

21.12 donor antenna minimum front to back ratio (DAR)

GSM reference:	No ref.
Q3 name:	donMinFrtToBckRatio
Modification:	Online

Range:	0 ... 250 (dB)
MML default:	0
Description:	With this parameter you define the minimum front to back ratio of the donor antenna.
Related command(s):	EXH, EXT, EXL

21.13 donor antenna tilt angle (DTA)

GSM reference:	No ref.
Q3 name:	donAntTiltAngle
Modification:	Online
Range:	-90 ... 90 degrees
MML default:	0
Description:	With this parameter you define the donor antenna tilt to the horizontal plane, increasing from top to down.
Related command(s):	EXH, EXT, EXL

21.14 donor antenna tilt type (DTT)

GSM reference:	No ref.
Q3 name:	donAntTiltType
Modification:	Online
Range:	1…2
MML default:	1
Description:	With this parameter you define the type of donor antenna tilt (Mechanical/Electrical).
Related command(s):	EXH, EXT, EXL

21.15 donor antenna vertical half power beam width (DVB)

GSM reference:	No ref.
Q3 name:	donAntVerHalfPwrBeam
Modification:	Online
Range:	0 ... 360 degrees
MML default:	ND
Description:	With this parameter you define the half power beam width (3 dB angle) of the repeater antenna in the vertical plane.
Related command(s):	EXH, EXT, EXL

21.16 hearability level (HL)

GSM reference:	No ref.
Q3 name:	hearLevel
Modification:	Online
Range:	0 ... 250 (-dBm)
MML default:	ND
Description:	With this parameter you define the reference level of the signal received by the MS.
Related command(s):	EXC, EXM, EXH, EXT, EXL

21.17 hop delay (HDE)

GSM reference:	No ref.
Q3 name:	hopDelay
Modification:	Online

Range:	1...65535 microsec
MML default:	ND
Description:	With this parameter you define the time elapsed when the signal travels from the transmit antenna of the donor cell to the donor antenna of the repeater.
Related command(s):	EXH, EXT, EXL

21.18 latitude degrees (LAD)

GSM reference:	No ref.
Q3 name:	coordinates
Modification:	Online
Range:	-90 ... 90 degrees
MML default:	-
Description:	With this parameter you define the degrees of latitude for coordinates.
Related command(s):	EXC, EXM, EXA, EXB, EXH, EXT, EXL

21.19 latitude fractions (LAF)

GSM reference:	No ref.
Q3 name:	coordinates
Modification:	Online
Range:	0 ... 99
MML default:	-
Description:	With this parameter you define the fractions of latitude seconds for coordinates.
Related command(s):	EXC, EXM, EXA, EXB, EXH, EXT, EXL

21.20 latitude minutes (LAM)

GSM reference:	No ref.
Q3 name:	coordinates
Modification:	Online
Range:	0 ... 59 minutes
MML default:	-
Description:	With this parameter you define the minutes of latitude for coordinates.
Related command(s):	EXC, EXM, EXA, EXB, EXH, EXT, EXL

21.21 latitude seconds (LAS)

GSM reference:	No ref.
Q3 name:	coordinates
Modification:	Online
Range:	0 ... 59 seconds
MML default:	-
Description:	With this parameter you define the seconds of latitude for coordinates.
Related command(s):	EXC, EXM, EXA, EXB, EXH, EXT, EXL

21.22 longitude degrees (LOD)

GSM reference:	No ref.
Q3 name:	coordinates
Modification:	Online
Range:	-180 ... 180 degrees

MML default:	-
Description:	With this parameter you define the degrees of longitude for coordinates.
Related command(s):	EXC, EXM, EXA, EXB, EXH, EXT, EXL

21.23 longitude fractions (LOF)

GSM reference:	No ref.
Q3 name:	coordinates
Modification:	Online
Range:	0 ... 99
MML default:	-
Description:	With this parameter you define the fractions of longitude seconds for coordinates.
Related command(s):	EXC, EXM, EXA, EXB, EXH, EXT, EXL

21.24 longitude minutes (LOM)

GSM reference:	No ref.
Q3 name:	coordinates
Modification:	Online
Range:	0 ... 59 minutes
MML default:	-
Description:	With this parameter you define the minutes of longitude for coordinates.
Related command(s):	EXC, EXM, EXA, EXB, EXH, EXT, EXL

21.25 longitude seconds (LOS)

GSM reference:	No ref.
Q3 name:	coordinates
Modification:	Online
Range:	0 ... 59 seconds
MML default:	-
Description:	With this parameter you define the seconds of longitude for coordinates.
Related command(s):	EXC, EXM, EXA, EXB, EXH, EXT, EXL

21.26 maximum downlink gain (MDG)

GSM reference:	No ref.
Q3 name:	maxDownlinkGain
Modification:	Online
Range:	0 ... 250 (dB)
MML default:	ND
Description:	With this parameter you define the maximum overall gain of the signal amplified by the repeater in the downlink direction.
Related command(s):	EXH, EXT, EXL

21.27 maximum uplink gain (MUG)

GSM reference:	No ref.
Q3 name:	maxUplinkGain
Modification:	Online
Range:	0 ... 250 (dB)

MML default:	ND
Description:	With this parameter you define the maximum overall gain of the signal amplified by the repeater in the uplink direction.
Related command(s):	EXH, EXT, EXL

21.28 predicted back hearability radius (BHR)

GSM reference:	No ref.
Q3 name:	predBckHearRad
Modification:	Online
Range:	0 ... 125000 m
MML default:	ND
Description:	With this parameter you define the distance from the BTS below which the BCCH of the BTS is measured in 99% of the cases with a level at least equal to a user-defined hearability level (HL) in the direction outside the main beam of the transmit antenna.
Related command(s):	EXH, EXT, EXL

21.29 predicted back serving radius (BSR)

GSM reference:	No ref.
Q3 name:	predBckServRad
Modification:	Online
Range:	0 ... 125000 m
MML default:	ND
Description:	With this parameter you define the distance from the BTS below which the BTS is serving in 99% of the cases in the direction outside the main beam of the transmit antenna.
Related command(s):	EXC, EXM, EXH, EXT, EXL

21.30 predicted front hearability radius (FHR)

GSM reference:	No ref.
Q3 name:	predFrtHearRad
Modification:	Online
Range:	0 ... 125000 m
MML default:	ND
Description:	With this parameter you define the distance from the BTS below which the BCCH of the BTS is measured in 99% of the cases with a level at least equal to a user-defined hearability level (HL).
Related command(s):	EXC, EXM, EXH, EXT, EXL

21.31 predicted front serving radius (FSR)

GSM reference:	No ref.
Q3 name:	predFrtServRad
Modification:	Online
Range:	0 ... 125000 m
MML default:	ND
Description:	With this parameter you define the distance from the BTS below which the BTS is serving in 99% of the cases.
Related command(s):	EXC, EXM, EXH, EXT, EXL

21.32 repeater antenna bearing (RB)

GSM reference:	No ref.
Q3 name:	repAntBearing
Modification:	Online

Range:	0 ... 359 degrees
MML default:	ND
Description:	With this parameter you define the repeater antenna direction in degrees, referred to North direction
Related command(s):	EXH, EXT, EXL

21.33 repeater antenna height (RH)

GSM reference:	No ref.
Q3 name:	repAntHeight
Modification:	Online
Range:	0 ... 1000 m
MML default:	40
Description:	With this parameter you specify the height of the repeater antenna in metres, measured above the ground level.The repeater antenna is the antenna transmitting/receiving to/from the MS.
Related command(s):	EXH, EXT, EXL

21.34 repeater antenna horizontal half power beam width (RHB)

GSM reference:	No ref.
Q3 name:	repAntHorHalfPwrBeam
Modification:	Online
Range:	0...360 degrees
MML default:	360
Description:	With this parameter you define the half power beam width (3 dB angle) of the repeater antenna in the horizontal plane.
Related command(s):	EXH, EXT, EXL

21.35 repeater antenna minimum front to back ratio (RAR)

GSM reference:	No ref.
Q3 name:	repMinFrtToBckRatio
Modification:	Online
Range:	0 ... 250 (dB)
MML default:	0
Description:	With this parameter you define the minimum front to back ratio of the repeater antenna.
Related command(s):	EXH, EXT, EXL

21.36 repeater antenna tilt angle (RTA)

GSM reference:	No ref.
Q3 name:	repAntTiltAngle
Modification:	Online
Range:	-90 ... 90 deg
MML default:	0
Description:	With this parameter you define the repeater antenna tilt to the horizontal plane. This angle increases from top to down.
Related command(s):	EXH, EXT, EXL

21.37 repeater antenna tilt type (RTT)

GSM reference:	No ref.
Q3 name:	repAntTiltType

Modification:	Online
Range:	1…2
MML default:	1
Description:	With this parameter you define the type of repeater antenna tilt (Mechanical/Electrical).
Related command(s):	EXH, EXT, EXL

21.38 repeater antenna vertical half power beam width (RVB)

GSM reference:	No ref.
Q3 name:	repAntVerHalfPwrBeam
Modification:	Online
Range:	0...360 degrees
MML default:	ND
Description:	With this parameter you define the half power beam width (3 dB angle) of the repeater antenna in the vertical plane
Related command(s):	EXH, EXT, EXL

21.39 repeater internal delay (RDE)

GSM reference:	No ref.
Q3 name:	repIntDelay
Modification:	Online
Range:	1...65535 microsec
MML default:	ND
Description:	With this parameter you define the delay introduced by the repeater when the signal goes through the repeater.

Related command(s):	EXH, EXT, EXL

21.40 repeater identification (REP)

GSM reference:	No ref.
Q3 name:	repeater-ID
Modification:	No
Range:	1...65535
MML default:	-
Description:	With this parameter you define the identification for the repeater object to be created.
Related command(s):	EXH, EXK, EXT, EXL

22 RITTT, optional (MS Locationing)

22.1 RIT transfer table identification (RIT)

GSM reference:	No ref.
Q3 name:	ritTransferTable-ID
Modification:	No
Range:	1...255
MML default:	-
Description:	With this parameter you define the identification for the RIT transfer table to be created.
Related command(s):	EXE, EXF, EXG, EXP

22.2 SMLC gateway (SGW)

GSM reference:	No ref.
Q3 name:	smlcGw
Modification:	Online
Range:	LAC-CI (&) (0 ... 65535)-(0 ... 65535)
MML default:	-
Description:	With this parameter you define the LMU area gateway LCS element between two SMLCs (BSCs). RIT values responded from target SMLC will include synchronization difference from 'Transfer table' segments to SMLC GW segment.

The parameter contains the LCS element id of the LCS element instance.

Related command(s): EXE, EXG, EXP

22.3 target SMLC (TS)

GSM reference: No ref.

Q3 name: targetSmlc

Modification: Online

Range: LAC-CI (&) (0 ... 65535)-(0 ... 65535)

MML default: -

Description: With this parameter you define the target SMLC identification. It consists of the location area code and cell identification for the LMU segment or BTS of the neighbouring SMLC. This information is used to identify the neighbouring SMLC from which the RIT values are requested.

Related command(s): EXE, EXG, EXP

22.4 transfer table (TRT)

GSM reference: No ref.

Q3 name: transferTable

Modification: Online

Range: LAC-CI (&) (0 ... 65535)-(0 ... 65535)

MML default: Empty list

Description: With this parameter you define the list of segments whose RIT values will be requested from the target SMLC. RIT values responded will include synchronization difference from 'Transfer table' segments to the SMLC gateway segment.

The parameter contains a list of LCS element ids of the LCS element instances.

Related command(s): EXE, EXG, EXP

23 Related command list

23.1 Base Station Controller Handling in BSC commands (EE)

The commands of the command group are used for handling the base station controller parameters in the BSDATA.

```
BASE STATION CONTROLLER PARAMETER HANDLING COMMANDS

?  ..... DISPLAY MENU
M: ..... MODIFY GENERAL BASE STATION CONTROLLER PARAMETERS
N: ..... MODIFY RADIO NETWORK SUPERVISION PARAMETERS
Q: ..... MODIFY MISCELLANEOUS PARAMETERS
U: ..... MODIFY DYNAMIC HOTSPOT PARAMETERS <option>
V: ..... MODIFY QUALITY OF SERVICE PARAMETERS <option>
T: ..... MODIFY PRIORITY LEVEL TO SUBSCRIBER TYPE RELATION <option>
R; ..... PREPARE DATABASE FOR DOWNLOADING OF BACKGROUND DATA
G: ..... CONTROL ACTIVATION OF BACKGROUND DATA
O: ..... OUTPUT BASE STATION CONTROLLER PARAMETERS
I: ..... OUTPUT RADIO NETWORK CONFIGURATION
L: ..... OUTPUT TRX RADIO TIME SLOTS
P: ..... OUTPUT BACKGROUND DATA ACTIVATION STATES
Z; ..... RETURN TO MAIN LEVEL
```

23.2 Base Control Function Handling commands (EF)

The commands of the command group are used for handling the base control function parameters in the BSDATA.

```
BASE CONTROL FUNCTION HANDLING COMMANDS

?  ..... DISPLAY MENU
C: ..... CREATE BASE CONTROL FUNCTION
D: ..... DELETE BASE CONTROL FUNCTION
M: ..... MODIFY BASE CONTROL FUNCTION PARAMETERS
O: ..... OUTPUT BASE CONTROL FUNCTION PARAMETERS
S: ..... CHANGE BASE CONTROL FUNCTION ADMINISTRATIVE STATE
```

```
T: ..... SET BASE CONTROL FUNCTION OUTPUTS
X: ..... SET BASE CONTROL FUNCTION EXTERNAL INPUT PARAMETERS
R: ..... RESET BASE CONTROL FUNCTION
E: ..... MODIFY EXTERNAL INPUT AND OUTPUT TEXT
P: ..... OUTPUT EXTERNAL INPUT AND OUTPUT TEXTS
Z; ..... RETURN TO MAIN LEVEL
```

23.3 Base Transceiver Station Handling in BSC commands (EQ)

The commands of the command group are used for handling the BTS parameters in the BSDATA.

```
BASE TRANSCEIVER STATION HANDLING IN BSC COMMANDS
?  ..... DISPLAY MENU
C: ..... CREATE BTS
D: ..... DELETE BTS
A: ..... MODIFY MOBILE ALLOCATION FREQUENCY LIST USAGE PARAMETERS
B: ..... MODIFY BCCH FREQUENCY LIST USAGE PARAMETERS <option>
E: ..... MODIFY BTS IDENTIFICATION PARAMETERS
F: ..... MODIFY CELL ACCESS PARAMETERS
G: ..... MODIFY RADIO LINK CONTROL DL PARAMETERS
H: ..... MODIFY QUEUEING PARAMETERS
J: ..... MODIFY CCH CONFIGURATION PARAMETERS
K: ..... MODIFY INTERFERENCE AVERAGING PARAMETERS
M: ..... MODIFY MISCELLANEOUS PARAMETERS
T: ..... MODIFY TRUNK RESERVATION PARAMETERS <option>
V: ..... MODIFY GPRS PARAMETERS <option>
X: ..... MODIFY DATA SERVICE PARAMETERS <option>
Y: ..... MODIFY AMR PARAMETERS <option>
Q: ..... CHECK IUO INTERFERING CELLS <option>
O: ..... OUTPUT BTS PARAMETERS
U: ..... CHANGE SEGMENT OF BTS <option>
S: ..... CHANGE BTS ADMINISTRATIVE STATE
Z; ..... RETURN TO MAIN LEVEL
```

23.4 Adjacent Cell Handling commands (EA)

The commands of the command group are used for handling the GSM adjacent cell and WCDMA RAN adjacent cell parameters in the BSDATA.

```
ADJACENT CELL HANDLING COMMANDS
?  ..... DISPLAY MENU
C: ..... CREATE ADJACENT CELL PARAMETERS
D: ..... DELETE ADJACENT CELL PARAMETERS
M: ..... MODIFY ADJACENT CELL PARAMETERS
X: ..... MODIFY C/I HANDOVER PARAMETERS   <option>
O: ..... OUTPUT ADJACENT CELL PARAMETERS
```

```
T; ..... CHECK ADJACENT CELL DATA
E: ..... CREATE WCDMA RAN ADJACENT CELL PARAMETERS <option>
G: ..... DELETE WCDMA RAN ADJACENT CELL PARAMETERS <option>
H: ..... MODIFY WCDMA RAN ADJACENT CELL PARAMETERS <option>
I: ..... OUTPUT WCDMA RAN ADJACENT CELL PARAMETERS <option>
Z; ..... RETURN TO MAIN LEVEL
```

23.5 Handover Control Parameter Handling commands (EH)

The commands of the command group are used for handling the handover control parameters in the BSDATA.

```
HANDOVER CONTROL PARAMETER HANDLING COMMANDS

?  ..... DISPLAY MENU
C: ..... CREATE HANDOVER CONTROL PARAMETERS
G: ..... MODIFY GENERAL PARAMETERS
A: ..... MODIFY AVERAGING PARAMETERS
S: ..... MODIFY SIGNAL STRENGTH THRESHOLD PARAMETERS
Q: ..... MODIFY SIGNAL QUALITY THRESHOLD PARAMETERS
I: ..... MODIFY SIGNAL INTERFERENCE THRESHOLD PARAMETERS
D: ..... MODIFY MS DISTANCE PARAMETERS
N: ..... MODIFY PARAMETERS RELATED TO ADJACENT CELL
X: ..... MODIFY C/I HANDOVER PARAMETERS   <option>
Y: ..... MODIFY INTELLIGENT UNDERLAY-OVERLAY PARAMETERS  <option>
P: ..... MODIFY MS SPEED PARAMETERS <option>
B: ..... MODIFY AMR SIGNAL QUALITY THRESHOLD PARAMETERS <option>
O: ..... OUTPUT HANDOVER CONTROL PARAMETERS
Z; ..... RETURN TO MAIN LEVEL
```

23.6 Power Control Parameter Handling commands (EU)

The commands of the command group are used for handling the power control parameters in the BSDATA.

```
POWER CONTROL PARAMETER HANDLING COMMANDS

?  ..... DISPLAY MENU
C: ..... CREATE POWER CONTROL PARAMETERS
G: ..... MODIFY GENERAL PARAMETERS
A: ..... MODIFY AVERAGING PARAMETERS
M: ......MODIFY DATA SERVICE PARAMETERS <option>
Q: ..... MODIFY SIGNAL QUALITY THRESHOLD PARAMETERS
S: ..... MODIFY SIGNAL STRENGTH THRESHOLD PARAMETERS
B: ..... MODIFY AMR SIGNAL QUALITY THRESHOLD PARAMETERS <option>
O: ..... OUTPUT POWER CONTROL PARAMETERS
Z; ..... RETURN TO MAIN LEVEL
```

23.7 BCCH And Mobile Allocation Frequency List and RA Handling commands (EB)

The commands of the command group are used for handling the BCCH and mobile allocation frequency list and routing area parameters in the BSDATA.

```
BCCH AND MOBILE ALLOCATION FREQUENCY LIST AND RA HANDLING COMMANDS

?  ..... DISPLAY MENU
C: ..... CREATE BCCH FREQUENCY LIST     <option>
D: ..... DELETE BCCH FREQUENCY LIST     <option>
M: ..... MODIFY BCCH FREQUENCY LIST     <option>
O: ..... OUTPUT BCCH FREQUENCY LIST(S)  <option>
E: ..... CREATE MOBILE ALLOCATION FREQUENCY LIST
R: ..... DELETE MOBILE ALLOCATION FREQUENCY LIST
T: ..... MODIFY MOBILE ALLOCATION FREQUENCY LIST
I: ..... OUTPUT MOBILE ALLOCATION FREQUENCY LIST(S)
F: ..... CREATE ROUTING AREA            <option>
G: ..... DELETE ROUTING AREA            <option>
H: ..... MODIFY ROUTING AREA            <option>
P: ..... OUTPUT ROUTING AREA(S)         <option>
Z; ..... RETURN TO MAIN LEVEL
```

23.8 GPRS NS Layer Handling commands (FW)

The commands of the command group are used for handling the network service virtual connections in the BSDATA.

```
GPRS NS LAYER HANDLING

?  ..... DISPLAY MENU
C: ..... CREATE NETWORK SERVICE VIRTUAL CONNECTION
D: ..... DELETE NETWORK SERVICE VIRTUAL CONNECTION
M: ..... MODIFY NETWORK SERVICE VIRTUAL CONNECTION
S: ..... CHANGE STATE OF NETWORK SERVICE VIRTUAL CONNECTION
O: ..... OUTPUT NETWORK SERVICE VIRTUAL CONNECTION DATA
Z; ..... RETURN TO MAIN LEVEL
```

23.9 Trunk Reservation Decision Table Handling OPTIONAL (ET)

The commands of the command group are used for handling Trunk reservation decision table parameters.

```
TRUNK RESERVATION DECISION TABLE HANDLING COMMANDS
```

```
?  ..... DISPLAY MENU
C: ..... CREATE DECISION THRESHOLD TABLE
D: ..... DELETE DECISION THRESHOLD TABLE
M: ..... MODIFY DECISION THRESHOLD PARAMETERS
O: ..... OUTPUT DECISION THRESHOLD PARAMETERS
Z; ..... RETURN TO MAIN LEVEL
```

23.10 Transceiver Handling commands (ER)

The commands of the command group are used for handling the transceiver and radio time slot parameters in the BSDATA.

```
TRANSCEIVER HANDLING COMMANDS

?  ..... DISPLAY MENU
C: ..... CREATE TRANSCEIVER
D: ..... DELETE TRANSCEIVER
M: ..... MODIFY TRANSCEIVER AND RADIO TIME SLOT PARAMETERS
T: ..... MODIFY TRANSCEIVER BINARY OUTPUTS
Y: ..... MODIFY TRANSCEIVER UNDERLAY-OVERLAY PARAMETERS <option>
O: ..... OUTPUT TRANSCEIVER PARAMETERS
S: ..... CHANGE TRANSCEIVER AND RADIO TIME SLOT STATE
Z; ..... RETURN TO MAIN LEVEL
```

23.11 Position Based Services Handling (EX)

The commands of this command group are used for handling the database objects needed in MS locationing in the BSDATA: the SMLC, LCS elements, LMU areas, RIT transfer tables, and repeaters.

```
POSITION BASED SERVICES HANDLING COMMANDS

?  ..... DISPLAY MENU
N: ..... MODIFY SMLC PARAMETERS
Q: ..... OUTPUT SMLC PARAMETERS
C: ..... CREATE LCS ELEMENT <option>
D: ..... DELETE LCS ELEMENT <option>
M: ..... MODIFY LCS ELEMENT PARAMETERS <option>
O: ..... OUTPUT LCS ELEMENT PARAMETERS <option>
A: ..... CREATE LMU AREA
R: ..... DELETE LMU AREA
B: ..... MODIFY LMU AREA PARAMETERS
I: ..... OUTPUT LMU AREA PARAMETERS
E: ..... CREATE RIT TRANSFER TABLE <option>
F: ..... DELETE RIT TRANSFER TABLE <option>
G: ..... MODIFY RIT TRANSFER TABLE PARAMETERS <option>
P: ..... OUTPUT RIT TRANSFER TABLE PARAMETERS <option>
H: ..... CREATE REPEATER <option>
K: ..... DELETE REPEATER <option>
```

```
T: ..... MODIFY REPEATER PARAMETERS <option>
L: ..... OUTPUT REPEATER PARAMETERS <option>
Z; ..... RETURN TO MAIN LEVEL
```