



BSS Radio Network Parameter Dictionary

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Summary of changes

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

CHANGES MADE BETWEEN ISSUES 16 AND 15

New object classes:

RA, NSE, NS_VC

New parameters:

BSC

GPRS territory update guard time (GTUGT), load rate for channel search (CLR), variable DL step size (VDLS)

BCF

RX difference limit (RXDL)

BTS

cell load for channel search (CLC), dedicated GPRS capacity (CDED), default GPRS capacity (CDEF), GPRS enable (GENA), prefer BCCH frequency GPRS (BFG), routing area code (RAC)

POC

binary representation ALPHA (ALPHA), binary representation TAU (GAMMA), idle mode signal strength filter period (IFP), PBCCH power reduction value (PRV), transfer mode signal strength filter period (TFP)

TRX

GPRS enabled TRX (GTRX), optimum RX level downlink (LEVVD)

Changed parameters:

BCF

autoconfigure (AC), bit rate (BR), external input number (INBR), external synchronization source (ESS), polarity (POL), route (ROU), severity (SEV), site type (TYPE), text ID of the output 1...6 (OUT1-OUT6)

BTS

BTS hopping mode (HOP), identification of BCCH frequency list (IDLE), radius extension (EXT), RX diversity (RDIV)

ADJC

HO target area (HOTA)

HOC

MS distance ho threshold ext cell max (MAX), MS distance ho threshold ext cell min (MIN)

POC

bs tx pwr max (PMAX), bs tx pwr min (PMIN)

BA

identification of BCCH frequency list

TRX

autoconfigure (AC), bit rate (BR), combi link (CL), E-TRX type (ETRX), preferred BCCH TRX (PREF), TRX type (FLO)

Changes in command groups:

A new command group, GPRS NS Layer Handling (FW), has been added.

The following command have also been added in their command groups:

EQV	MODIFY GPRS PARAMETERS <option>
EUM	MODIFY DATA SERVICE PARAMETERS <option>
EBF	CREATE ROUTING AREA <option>
EBG	DELETE ROUTING AREA <option>
EBH	MODIFY ROUTING AREA <option>
EBP	OUTPUT ROUTING AREA(S) <option>

Other changes:

The chapters have been rearranged to follow the logical order of the objects more closely.

Changes made between issues 15 and 14**New object class:**

IO_TEXT

New parameters:

BSC

AMH lower load threshold (ALT), AMH max load of target cell (AML), AMH upper load threshold (AUT), TRHO guard time (TGT)

BCF

autoconfigure (AC), bit rate (BR), external input number (INBR), polarity (POL), route (ROU), severity (SEV), text ID (TID), text ID of the output 1-4 (OUT1-OUT4)

IO_TEXT

text ID (TID), text string (TEXT)

BTS

rx diversity (RDIV)

ADJACENT CELL

target cell of direct access to desired layer (DADL)

HANDOVER CONTROL

amh traffic control IUO (ATCI), amh traffic control mcu (ATCM), amh trho pbgt margin (ATPM)

TRX

autoconfigure (AC), bit rate (BR), combi link (CL)

Modified parameters:

MOBILE ALLOCATION FREQUENCY LIST

Range has been changed: frequency

BCCH ALLOCATION FREQUENCY LIST

Range has been changed: frequency

BCF

Range has been changed: BCF identification, site type

BTS

Range has been changed: BTS identification

Description has been modified: HSCSD downgrade guard time (HDT).

ADJACENT CELL

Range has been changed: background BCCH frequency (BFREQ), BCCH frequency (FREQ)

TRX

Range has been changed: background frequency (BFREQ), frequency (FREQ), TRX identification with frequency (IFREQ)

New commands:

EFX Set base control function external input parameters

EFE Modify external input and output texts

EFP Output external input and output parameters

New chapter:

An index has been added to make easier the use of the paper document. The index lists the parameters by their short name, for example ALFRT. When the parameter in question does not have a short name, its long name has been used. The same parameter may be included in more than one object class. In this case, the different instances have been indicated in the index.

1

About this manual

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

1.1 Scope of applications

This manual describes a set of Base Station Subsystem (BSS) parameters which are in the BSS Radio Network Configuration Database (BSDATA). The BSDATA consists of the following object collections: base station controller, base control functions, base transceiver stations, handover control parameters, power control parameters, adjacent cells, transceivers, radio timeslots, frequency hopping systems, trunk reservation decision threshold tables, BCCH allocation frequency lists, mobile allocation frequency lists, external input and output texts, routing areas, network service entities, and network service virtual connections. Of these, the frequency hopping systems object collection is not within the scope of this manual.

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

1.2 Structure of this manual

The parameters are listed in fifteen chapters according to the object collections of BSDATA, that is, base station controller (BSC), base control functions (BCF), base transceiver stations (BTS), handover control parameters (HOC), power control parameters (POC), adjacent cells (ADJC), transceivers (TRX), radio timeslots (RTSL), trunk reservation decision threshold tables (TRK_TBL), BCCH allocation frequency lists (BA), mobile allocation frequency lists (MA), external input and output texts (IO_TEXT), routing areas (RA), network service entities (NSE), and network service virtual connections (NS_VC).

The manual 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 BTS shutdown due to mains break)** means that the parameter is optional and is in use when the feature Intelligent BTS shutdown due to mains break is in use.

The last chapter of the manual lists commands that are related to the parameters.

The document also contains an index to make easier the use of the paper document. The index lists the parameters by their short name, for example ALFRT. When the parameter in question does not have a short name, its long name has been used. The same parameter may be included in more than one object class. In this case, the different instances have been indicated in the index.

2 BSC

2.1 alarm limit for full rate TCH availability (ALFRT)

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

2.2 alarm limit for half rate TCH availability (ALHRT)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	hrTchALim
<i>Modification:</i>	Online
<i>Range:</i>	1..100 (%)

<i>MML default:</i>	30
<i>Description:</i>	With this parameter you define the alarm limit for available half rate traffic channels. The parameter is used by radio network recovery.
<i>Related command(s):</i>	EEQ, EEO

2.3 alarm limit for SDCCH availability (ALSDC)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	sdccchAlLimit
<i>Modification:</i>	Online
<i>Range:</i>	0..100 (%)
<i>MML default:</i>	30
<i>Description:</i>	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.
<i>Related command(s):</i>	EEQ, EEO

2.4 alarm threshold for number of channel seizures (CS)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	alrmNoOfSei
<i>Modification:</i>	Online
<i>Range:</i>	1..65535

<i>MML default:</i>	10
<i>Description:</i>	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 <i>minimum mean holding time for TCHs</i> and <i>alarm threshold for TCH failure rate</i> are taken into account.
<i>Related command(s):</i>	EEN, EEO

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

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	almSeizReq
<i>Modification:</i>	Online
<i>Range:</i>	1..65535
<i>MML default:</i>	100
<i>Description:</i>	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 <i>alarm threshold for TCH congestion</i> and <i>alarm threshold for SDCCH congestion</i> are taken into account.
<i>Related command(s):</i>	EEN, EEO

2.6 alarm threshold for SDCCH congestion (CNGS)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	almSdcch
<i>Modification:</i>	Online
<i>Range:</i>	1..100 (%)
<i>MML default:</i>	20
<i>Description:</i>	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.
<i>Related command(s):</i>	EEN, EEO

2.7 alarm threshold for SDCCH failure rate (SCHFR)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	almSchFail
<i>Modification:</i>	Online
<i>Range:</i>	1..100 (%)
<i>MML default:</i>	80
<i>Description:</i>	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.
<i>Related command(s):</i>	EEN, EEO

2.8 alarm threshold for TCH congestion (CNGT)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	almTch
<i>Modification:</i>	Online
<i>Range:</i>	1..100 (%)
<i>MML default:</i>	20
<i>Description:</i>	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.
<i>Related command(s):</i>	EEN, EEO

2.9 alarm threshold for TCH failure rate (TCHFR)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	almChFail
<i>Modification:</i>	Online
<i>Range:</i>	1..100 (%)

<i>MML default:</i>	20
<i>Description:</i>	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.
<i>Related command(s):</i>	EEN, EEO

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

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

2.11 AMH lower load threshold (ALT)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	amhLowerLoadThreshold
<i>Modification:</i>	Online
<i>Range:</i>	0..100 (%)
<i>MML default:</i>	20
<i>Description:</i>	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.
<i>Related command(s):</i>	EEM, EEO
<i>Note:</i>	OPTIONAL (Advanced multilayer handling)

2.12 AMH max load of target cell (AML)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	amhMaxLoadOfTgtCell
<i>Modification:</i>	Online
<i>Range:</i>	0..100 (%)
<i>MML default:</i>	70
<i>Description:</i>	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).
<i>Related command(s):</i>	EEM, EEO
<i>Note:</i>	OPTIONAL (Advanced multilayer handling)

2.13 AMH upper load threshold (AUT)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	amhUpperLoadThreshold
<i>Modification:</i>	Online
<i>Range:</i>	0..100 (%)
<i>MML default:</i>	80
<i>Description:</i>	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.
<i>Related command(s):</i>	EEM, EEO
<i>Note:</i>	OPTIONAL (Advanced multilayer handling)

2.14 bad quality limit (BQL)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	badQualLimit
<i>Modification:</i>	Online
<i>Range:</i>	0..100 (%)
<i>MML default:</i>	100
<i>Description:</i>	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.
<i>Related command(s):</i>	EEU, EEO

2.15 BCSU load threshold (BCSUL)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	bcsuLoadThr
<i>Modification:</i>	Online
<i>Range:</i>	0..10000 (0..100%)
<i>MML default:</i>	150
<i>Description:</i>	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.
<i>Related command(s):</i>	EEQ, EEO

2.16 BSC call number (BCN)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	bscCallNumber
<i>Modification:</i>	Online
<i>Range:</i>	0000..9999999999999999, from 4 to 15 digits
<i>MML default:</i>	0000
<i>Description:</i>	With this parameter you define the BSC ISDN call number.
<i>Related command(s):</i>	EEM, EEO
<i>Note:</i>	OPTIONAL (ISDN Abis)

2.17 BTS site battery backup forced HO timer (TIM)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	batteryBackupTimer
<i>Modification:</i>	Online
<i>Range:</i>	1..500 (s)
<i>MML default:</i>	30
<i>Description:</i>	The parameter defines the maximum time period during which handover is attempted in TRXs.
<i>Related command(s):</i>	EEM, EEO
<i>Note:</i>	OPTIONAL (Intelligent BTS shutdown due to mains break)

2.18 DCS macrocell threshold (DMAC)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	dcsMacrocellThreshold
<i>Modification:</i>	Online
<i>Range:</i>	GSM 1800: 0..36 (dBm), with 2 dBm step GSM 1900: 0..32 (dBm), with 2 dBm step, and 33 (dBm)
<i>MML default:</i>	26
<i>Description:</i>	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.
<i>Related command(s):</i>	EEM, EEO

2.19 DCS microcell threshold (DMIC)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	dcsmicrocellThreshold
<i>Modification:</i>	Online
<i>Range:</i>	GSM 1800: 0..36 (dBm), with 2 dBm step GSM 1900: 0..32 (dBm), with 2 dBm step, and 33 (dBm)
<i>MML default:</i>	24
<i>Description:</i>	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.
<i>Related command(s):</i>	EEM, EEO

2.20 disable external DR (DEXDR)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	disableExtDr
<i>Modification:</i>	Online
<i>Range:</i>	Y (disable external directed retry handovers) N (enable external directed retry handovers)
<i>MML default:</i>	N
<i>Description:</i>	With this parameter you disable or enable the external directed retry handovers.
<i>Related command(s):</i>	EEQ, EEO

2.21 disable internal HO (DINHO)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	disableIntHo
<i>Modification:</i>	Online
<i>Range:</i>	Y (all handovers are controlled by the MSC) N (all handovers are not controlled by the MSC)
<i>MML default:</i>	N
<i>Description:</i>	With this parameter you define whether all handovers are controlled by the MSC or not.
<i>Related command(s):</i>	EEQ, EEO

2.22 enable answer to paging call on FACCH (EPF)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	pagingAnsOnFacch
<i>Modification:</i>	Online
<i>Range:</i>	Y (enable answer to paging call setup on FACCH) N (disable answer to paging call setup on FACCH)
<i>MML default:</i>	N
<i>Description:</i>	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.
<i>Related command(s):</i>	EEM, EEO
<i>Note:</i>	OPTIONAL (FACCH Call Set Up) You can set the FACCH call setup feature ON or OFF in PRFILE.

2.23 enable call re-establishment on FACCH (ERF)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	reestablishOnFacch
<i>Modification:</i>	Online
<i>Range:</i>	Y (enable call re-establishment setup on FACCH) N (disable call re-establishment setup on FACCH)
<i>MML default:</i>	N
<i>Description:</i>	With this parameter you enable or disable the call re-establishment setup on FACCH. FACCH call setup is only possible when SDCCH congestion occurs.
<i>Related command(s):</i>	EEM, EEO
<i>Note:</i>	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.

2.24 enable emergency call on FACCH (EEF)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	emerCallOnFacch
<i>Modification:</i>	Online
<i>Range:</i>	Y (enable emergency call setup on FACCH) N (disable emergency call setup on FACCH)
<i>MML default:</i>	N

<i>Description:</i>	With this parameter you enable or disable the emergency call setup on FACCH.
<i>Related command(s):</i>	EEM, EEO
<i>Note:</i>	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.

2.25 enable ordinary calls on FACCH (EOF)

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

2.26 ending moment for supervision of BTS (EMBNT)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	nokBtsOff
<i>Modification:</i>	Online

<i>Range:</i>	00-00 .. 23-59
<i>MML default:</i>	18-00
<i>Description:</i>	With this parameter you define the time of day when the BTS supervision ends. Ending moment is given in hours and minutes.
<i>Related command(s):</i>	EEN, EEO

2.27 good quality limit (GQL)

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

2.28 GPRS territory update guard time (GTUGT)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	terrUpdateGuardTimeGPRS
<i>Modification:</i>	Online
<i>Range:</i>	0 .. 255 (s)
<i>MML default:</i>	5

<i>Description:</i>	With this parameter you set the timer which must elapse between two subsequent territory updates.
<i>Related command(s):</i>	EEN, EEO
<i>Note:</i>	OPTIONAL (Gb Interface functionality)

2.29 GSM macrocell threshold (GMAC)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	gsmMacrocellThreshold
<i>Modification:</i>	Online
<i>Range:</i>	5..43 (dBm), with a step size of 2 dBm
<i>MML default:</i>	35
<i>Description:</i>	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.
<i>Related command(s):</i>	EEM, EEO

2.30 GSM microcell threshold (GMIC)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	gsmMicrocellThreshold
<i>Modification:</i>	Online
<i>Range:</i>	5..43 (dBm), with a step size of 2 dBm

<i>MML default:</i>	33
<i>Description:</i>	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.
<i>Related command(s):</i>	EEM, EEO

2.31 HO preference order interference DL (HDL)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	hoPreferenceOrderInterfDL
<i>Modification:</i>	Online
<i>Range:</i>	INTER, INTRA
<i>MML default:</i>	INTER
<i>Description:</i>	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.
<i>Related command(s):</i>	EEM, EEO

2.32 HO preference order interference UL (HUL)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	hoPreferenceOrderInterfUL
<i>Modification:</i>	Online
<i>Range:</i>	INTER, INTRA

<i>MML default:</i>	INTER
<i>Description:</i>	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.
<i>Related command(s):</i>	EEM, EEO

2.33 LAPD load threshold (LAPDL)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	lapdLoadThr
<i>Modification:</i>	Online
<i>Range:</i>	0..10 000 (0..100%)
<i>MML default:</i>	150
<i>Description:</i>	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.
<i>Related command(s):</i>	EEQ, EEO

2.34 load rate for channel search (CLR)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	loadRateForChannelSearch
<i>Modification:</i>	Online
<i>Range:</i>	0 .. 100 (%)
<i>MML default:</i>	100 %

<i>Description:</i>	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.
<i>Related command(s):</i>	EEM, EEO
<i>Note:</i>	If the BTS specific parameter <i>cell load for channel search</i> has been set (the value is not 0) in a BTS, this will override the effect of the BSC level parameter in that BTS.

2.35 lower limit for FR TCH resources (HRL)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	btsLoadDepTCHRate
<i>Modification:</i>	Online
<i>Range:</i>	0..100 (%)
<i>MML default:</i>	100
<i>Description:</i>	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.
<i>Related command(s):</i>	EEM, EEO
<i>Note:</i>	OPTIONAL (Half Rate)

2.36 maximum mean holding time for SDCCHs (MAXHTS)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	maxHldSdcch
<i>Modification:</i>	Online
<i>Range:</i>	0..1440 (min)
<i>MML default:</i>	30
<i>Description:</i>	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.
<i>Related command(s):</i>	EEN, EEO

2.37 maximum mean holding time for TCHs (MAXHTT)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	maxHldTch
<i>Modification:</i>	Online
<i>Range:</i>	0..1440 (min)
<i>MML default:</i>	120
<i>Description:</i>	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.
<i>Related command(s):</i>	EEN, EEO

2.38 measurement period for high TCH interference supervision (PRDHIF)

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

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

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	measPrdSdcch
<i>Modification:</i>	Online
<i>Range:</i>	0 (deactivated) 5..1440 (min)
<i>MML default:</i>	60
<i>Description:</i>	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.
<i>Related command(s):</i>	EEN, EEO

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

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

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

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	measPrdFail
<i>Modification:</i>	Online
<i>Range:</i>	0 (deactivated) 5..1440 (min)
<i>MML default:</i>	60
<i>Description:</i>	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.
<i>Related command(s):</i>	EEN, EEO

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

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	measPrdCh
<i>Modification:</i>	Online
<i>Range:</i>	0 (deactivated) 5..1440 (min)
<i>MML default:</i>	120
<i>Description:</i>	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.
<i>Related command(s):</i>	EEN, EEO

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

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	measTchMhold
<i>Modification:</i>	Online
<i>Range:</i>	0 (deactivated) 5..1440 (min)
<i>MML default:</i>	240
<i>Description:</i>	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.
<i>Related command(s):</i>	EEN, EEO

2.44 minimum mean holding time for TCHs (MINHTT)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	minHldTch
<i>Modification:</i>	Online
<i>Range:</i>	0..65535 (s)
<i>MML default:</i>	10
<i>Description:</i>	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.
<i>Related command(s):</i>	EEN, EEO

2.45 MS distance behaviour (DISB)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	msDistanceBehaviour
<i>Modification:</i>	Online
<i>Range:</i>	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)

<i>MML default:</i>	255
<i>Description:</i>	With this parameter you define the executions allowed after the Timing Advance has exceeded the threshold.
<i>Related command(s):</i>	EEM, EEO

2.46 number of ignored transcoder failures (ITCF)

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

2.47 number of preferred cells (NPC)

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

2.48 priority level (PR)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	pieToSubscriber
<i>Modification:</i>	Online
<i>Range:</i>	1..14
<i>MML default:</i>	-
<i>Description:</i>	With this parameter you define the priority level to which a certain subscriber type is to be attached.
<i>Related command(s):</i>	EET
<i>Note:</i>	OPTIONAL (Improved Trunk Reservation (TR))

2.49 RX antenna supervision period (RXANT)

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

2.50 RX level balance (RXBAL)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	rxLevBalance
<i>Modification:</i>	Online
<i>Range:</i>	0..20 (dB)
<i>MML default:</i>	5
<i>Description:</i>	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.
<i>Related command(s):</i>	EEQ, EEO

2.51 signal quality limit 1 (SQL1)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	sigQualLimit1
<i>Modification:</i>	Online
<i>Range:</i>	0..100 (%)
<i>MML default:</i>	100
<i>Description:</i>	With this parameter you define the lower limit for adequate signal quality in adjacent cells.
<i>Related command(s):</i>	EEU, EEO
<i>Note:</i>	The value of the parameter has to be equal to or smaller than the value of the <i>bad quality limit</i> (BQL) parameter.
	OPTIONAL (Dynamic Hotspot)

2.52 signal quality limit 2 (SQL2)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	sigQualLimit2
<i>Modification:</i>	Online
<i>Range:</i>	0..100 (%)
<i>MML default:</i>	100
<i>Description:</i>	With this parameter you define the upper limit for adequate signal quality in adjacent cells.
<i>Related command(s):</i>	EEU, EEO
<i>Note:</i>	The value of the parameter has to be equal to or smaller than the value of the <i>signal quality limit 1</i> (SQL1) parameter.
	OPTIONAL (Dynamic Hotspot)

2.53 starting moment for supervision of BTS (SMBNT)

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

2.54 subscriber type (ST)

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

2.55 TCH in handover (HRI)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	tchRateInternalHo
<i>Modification:</i>	Online
<i>Range:</i>	1..5
<i>MML default:</i>	1

<i>Description:</i>	<p>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:</p> <p>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.</p> <p>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.</p> <p>3 ... The channel rate and speech codec changes are totally denied.</p> <p>4 ... The preferred channel rate of TCH and preferred speech codec have to be primarily allocated.</p> <p>5 ... TCH has to be primarily allocated from the best BTS of the handover candidate list.</p>
<i>Related command(s):</i>	EEM, EEO
<i>Note:</i>	OPTIONAL (Half Rate OR Enhanced Full Rate Codec)

2.56 TCH probability 1 (TCP1)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	tchProbability1
<i>Modification:</i>	Online
<i>Range:</i>	0..100 (%)
<i>MML default:</i>	100

<i>Description:</i>	With this parameter you define the probability of TCH allocation when signal quality in the adjacent cell is between <i>bad quality limit</i> (BQL) and <i>signal quality limit 1</i> (SQL1).
<i>Related command(s):</i>	EEU, EEO
<i>Note:</i>	OPTIONAL (Dynamic Hotspot)

2.57 TCH probability 2 (TCP2)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	tchProbability2
<i>Modification:</i>	Online
<i>Range:</i>	0..100 (%)
<i>MML default:</i>	100
<i>Description:</i>	With this parameter you define the probability of TCH allocation when signal quality in the adjacent cell is between <i>signal quality limit 1</i> (SQL1) and <i>signal quality limit 2</i> (SQL2).
<i>Related command(s):</i>	EEU, EEO
<i>Note:</i>	The value of the parameter has to be equal to or greater than the value of the <i>TCH probability 1</i> (TCP1) parameter.
	OPTIONAL (Dynamic Hotspot)

2.58 TCH probability 3 (TCP3)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	tchProbability3
<i>Modification:</i>	Online
<i>Range:</i>	0..100 (%)

<i>MML default:</i>	100
<i>Description:</i>	With this parameter you define the probability of TCH allocation when signal quality in the adjacent cell is between <i>signal quality limit 2</i> (SQL2). and <i>good quality limit</i> (GQL).
<i>Related command(s):</i>	EEU, EEO
<i>Note:</i>	The value of the parameter has to be equal to or greater than the value of the <i>TCH probability 2</i> (TCP2) parameter.
	OPTIONAL (Dynamic Hotspot)

2.59 threshold for high TCH interference level (HIFLVL)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	minHilf
<i>Modification:</i>	Online
<i>Range:</i>	0..4 (0 is the lowest interference level)
<i>MML default:</i>	4
<i>Description:</i>	With this parameter you define the interference level which is regarded as high in traffic channel interference supervision.
<i>Related command(s):</i>	EEN, EEO

2.60 TRHO guard time (TGT)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	amhTrhoGuardTime
<i>Modification:</i>	Online
<i>Range:</i>	0..120 (s)

<i>MML default:</i>	30
<i>Description:</i>	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.
<i>Related command(s):</i>	EEM, EEO

2.61 upper limit for FR TCH resources (HRU)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	btsLoadDepTCHRate
<i>Modification:</i>	Online
<i>Range:</i>	0..100 (%)
<i>MML default:</i>	0
<i>Description:</i>	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.
<i>Related command(s):</i>	EEM, EEO
<i>Note:</i>	OPTIONAL (Half Rate)

2.62 upper limit of MS speed class 1 (MSSCF)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	msSpeedC11
<i>Modification:</i>	Online
<i>Range:</i>	0..255

<i>MML default:</i>	10
<i>Description:</i>	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.
<i>Related command(s):</i>	EEQ, EEO

2.63 upper limit of MS speed class 2 (MSSCS)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	msSpeedC12
<i>Modification:</i>	Online
<i>Range:</i>	0..255
<i>MML default:</i>	30
<i>Description:</i>	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.
<i>Related command(s):</i>	EEQ, EEO

2.64 variable DL step size (VDLS)

<i>GSM reference:</i>	GSM 04.08
<i>Q3 name:</i>	variableDLStepUse
<i>Modification:</i>	Online
<i>Range:</i>	Y/N

<i>MML default:</i>	N
<i>Description:</i>	With this parameter you define whether the variable step size is used in the power control algorithm when the downlink transmission power is decreased.
<i>Related command(s):</i>	EEQ, EEO

3

BCF

3.1 administrative state

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	administrativeState
<i>Modification:</i>	Online/Offline
<i>Range:</i>	L (locked) U (unlocked)
<i>MML default:</i>	L
<i>Description:</i>	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.
<i>Related command(s):</i>	EFO, EFS, EEI

3.2 autoconfigure (AC)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	autoConfig
<i>Modification:</i>	Read only
<i>Range:</i>	Y/N
<i>MML default:</i>	N

<i>Description:</i>	With this parameter you define whether the BCF is created to be autoconfigured.
<i>Related command(s):</i>	EFC
<i>Note:</i>	OPTIONAL (Abis autoconfiguration in use) The parameter only available for Nokia MetroSite, Nokia InSite and Nokia UltraSite.

3.3 BCCH TRX shutdown timer (BTIM)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	bcchTrxBatbuTimer
<i>Modification:</i>	Online
<i>Range:</i>	0..600 (min)
<i>MML default:</i>	0
<i>Description:</i>	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 <i>TRX shutdown timer</i> (NTIM) has expired.
<i>Related command(s):</i>	EFC, EFM, EFO
<i>Note:</i>	OPTIONAL (Intelligent BTS shutdown due to mains break) The parameter cannot be defined for Nokia PrimeSite or Nokia InSite.

3.4 BCF identification

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	bcf-ID
<i>Modification:</i>	Read only

<i>Range:</i>	1..248
	The value range depends on the BSC hardware configuration and the corresponding options.
<i>MML default:</i>	-
<i>Description:</i>	With this parameter you identify the BCF with a decimal number.
<i>Related command(s):</i>	EFC, EFD, EFO, EFM, EFR, EFS, EFT, EFX, EEI

3.5 bit rate (BR)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	bitRate
<i>Modification:</i>	Read only
<i>Range:</i>	8, 16, 32 or 64 (kbps)
<i>MML default:</i>	-
<i>Description:</i>	With this parameter you define the bit rate of the D-channel O&M signalling link of the BCF.
<i>Related command(s):</i>	EFC
<i>Note:</i>	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)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	batteryBackupProcedure
<i>Modification:</i>	Online

<i>Range:</i>	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)
<i>MML default:</i>	ALL
<i>Description:</i>	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.
<i>Related command(s):</i>	EFC, EFM, EFO
<i>Note:</i>	OPTIONAL (Intelligent BTS shutdown due to mains break) The parameter cannot be defined for Nokia PrimeSite or Nokia InSite.

3.7 D-channel link set name (DNAME)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	userLabel
<i>Modification:</i>	Online
<i>Range:</i>	String of up to 5 characters ('A'..'Z','0'..'9'). The first character must be a letter.
<i>MML default:</i>	-
<i>Description:</i>	With this parameter you identify the D-channel link set name of the BTS site O&M link.
<i>Related command(s):</i>	EFC, EFO, EFM, EEI
<i>Note:</i>	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)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	lapdLinkNumber
<i>Modification:</i>	Online
<i>Range:</i>	0..65535
<i>MML default:</i>	-
<i>Description:</i>	With this parameter you identify the D-channel link set number of the BTS site O&M link.
<i>Related command(s):</i>	EFC, EFM, EFO
<i>Note:</i>	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)

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

3.10 external outputs (ON/OFF)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	bcfOutputs
<i>Modification:</i>	Online
<i>Range:</i>	6 outputs of type ON/OFF
<i>MML default:</i>	all outputs OFF
<i>Description:</i>	With this parameter you define the external outputs that are set into the ON or OFF state. The outputs are identified by a number.
<i>Related command(s):</i>	EFO, EFT
<i>Note:</i>	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)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	syncSource
<i>Modification:</i>	When BCF is locked
<i>Range:</i>	0 ... BTS internal 2 ... PCM external 3 ... Other external
<i>MML default:</i>	2

<i>Description:</i>	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.
<i>Related command(s):</i>	EFO, EFM
<i>Note:</i>	See also the <i>master clock trx</i> parameter.

3.12 identification of test equipment (TEST)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	testEquipment
<i>Modification:</i>	Online
<i>Range:</i>	NOT (no test equipment) RFTE (Radio Frequency Test Equipment) STM (Site Test Monitor unit)
<i>MML default:</i>	NOT
<i>Description:</i>	With this parameter you define the test equipment connected to the BCF.
<i>Related command(s):</i>	EFC, EFM, EFO
<i>Note:</i>	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)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	masterClock
<i>Modification:</i>	When BCF is locked
<i>Range:</i>	0..16
<i>MML default:</i>	0 (standalone)
<i>Description:</i>	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).
<i>Related command(s):</i>	EFM, EFO
<i>Note:</i>	If there is more than one TRX in the site, the site must be synchronised (MCT≠0). See also the <i>external synchronization source</i> parameter.

3.14 polarity (POL)

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

3.15 route (ROU)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	externalAlarmDefinition: reporting Route
<i>Modification:</i>	Online
<i>Range:</i>	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)
<i>MML default:</i>	NOT
<i>Description:</i>	With this parameter you activate the routing of the input alarm and choose where the alarm will be sent.
<i>Related command(s):</i>	EFX, EFO
<i>Note:</i>	The parameter is only available for Nokia MetroSite and Nokia UltraSite.

3.16 RX difference limit (RXDL)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	rxDifferenceLimit
<i>Modification:</i>	Online
<i>Range:</i>	5 ... 64 dB
<i>MML default:</i>	10

<i>Description:</i>	With this parameter you define the value limit for activating the RX alarm.
<i>Related command(s):</i>	EFC, EFM, EFO
<i>Note:</i>	The parameter is not available for Nokia MetroSite and Nokia InSite.

3.17 severity (SEV)

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

3.18 site type (TYPE)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	bcfType
<i>Modification:</i>	When BCF is locked

<i>Range:</i>	B (Nokia 2nd generation) D (Nokia Talk-family) F (Nokia PrimeSite) C (Nokia MetroSite) I (Nokia InSite) P (Nokia UltraSite)
<i>MML default:</i>	-
<i>Description:</i>	With this parameter you identify the type of the BTS site.
<i>Related command(s):</i>	EFC, EFM, EFO, EEI
<i>Note:</i>	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)

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

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

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	ioTextId
<i>Modification:</i>	Online
<i>Range:</i>	1 .. 200
	0 removes the text ID
<i>MML default:</i>	-
<i>Description:</i>	With this parameter you define the text ID for the external output.
<i>Related command(s):</i>	EFM, EFO
<i>Note:</i>	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)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	normTrxBatbuTimer
<i>Modification:</i>	Online
<i>Range:</i>	0..600 (min)
<i>MML default:</i>	0

<i>Description:</i>	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.
<i>Related command(s):</i>	EFC, EFM, EFO
<i>Note:</i>	OPTIONAL (Intelligent BTS shutdown due to mains break). The parameter cannot be defined for Nokia PrimeSite or Nokia InSite.

4

External input and output texts (IO_TEXT)

4.1 text ID (TID)

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

4.2 text string (TEXT)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	ioTextValue
<i>Modification:</i>	Online
<i>Range:</i>	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)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	multiBandCell
<i>Modification:</i>	Online
<i>Range:</i>	Y/N
<i>MML default:</i>	Y (GSM and GSM 1800) N (GSM 1900)
<i>Description:</i>	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.
<i>Related command(s):</i>	EQF, EQO
<i>Note:</i>	OPTIONAL (Dual Band GSM/DCS)

5.2 administrative state

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	administrativeState
<i>Modification:</i>	Online/Offline

<i>Range:</i>	L (locked) U (unlocked)
<i>MML default:</i>	L
<i>Description:</i>	With this parameter you define the new administrative state of the BTS. If the BTS is in operational use, the state must be "unlocked". If the status is "locked", the BTS cannot transfer traffic.
<i>Related command(s):</i>	EQO, EQS, EEI

5.3 allow IMSI attach detach (ATT)

<i>GSM reference:</i>	I-ETS 300 022-1 (GSM 04.08) I-ETS 300 022-1 (GSM 04.08)
<i>Q3 name:</i>	allowIMSIAttachDetach
<i>Modification:</i>	Online
<i>Range:</i>	Y/N
<i>MML default:</i>	Y
<i>Description:</i>	With this parameter you define whether IMSI attach/detach is used in the cell.
<i>Related command(s):</i>	EQJ, EQO
<i>Note:</i>	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 averaging period (AP)

<i>GSM reference:</i>	I-ETS 300 034-1 (GSM 05.08)
<i>Q3 name:</i>	interferenceAveragingProcess
<i>Modification:</i>	Online

<i>Range:</i>	1..32
<i>MML default:</i>	6
<i>Description:</i>	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.
<i>Related command(s):</i>	EQK, EQO

5.5 background BTS colour code (BBCC)

<i>GSM reference:</i>	I-ETS 300 022-1 (GSM 04.08) I-ETS 300 030 (GSM 05.02)
<i>Q3 name:</i>	backgroundDBAttributes: bsIdentityCode
<i>Modification:</i>	Online
<i>Range:</i>	0..7 ND (not defined)
<i>MML default:</i>	-
<i>Description:</i>	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.
<i>Related command(s):</i>	EQE, EQO
<i>Note:</i>	The BSIC parameter is composed of the parameters NCC and BCC. Note that TRX TSC must be equal to BTS BCC.

5.6 background BTS hopping mode (BHOP)

<i>GSM reference:</i>	I-ETS 300 022-1 (GSM 04.08)
<i>Q3 name:</i>	backgroundDBAttributes: hoppingMode
<i>Modification:</i>	Online
<i>Range:</i>	BB (baseband hopping is used) RF (radio frequency hopping is used) N (hopping is not used) ND (not defined)
<i>MML default:</i>	-
<i>Description:</i>	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.
<i>Related command(s):</i>	EQE, EQO, EFO

5.7 background hopping sequence number 1 (BHSN1)

<i>GSM reference:</i>	I-ETS 300 022-1 (GSM 04.08) I-ETS 300 030 (GSM 05.02)
<i>Q3 name:</i>	backgroundDBAttributes: hoppingSequenceNumber
<i>Modification:</i>	Online
<i>Range:</i>	0 (cyclic hopping) 1...63 (random hopping) ND (not defined)

<i>MML default:</i>	-
<i>Description:</i>	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.
<i>Related command(s):</i>	EQE, EQO, EFO

5.8 background hopping sequence number 2 (BHSN2)

<i>GSM reference:</i>	I-ETS 300 022-1 (GSM 04.08) I-ETS 300 030 (GSM 05.02)
<i>Q3 name:</i>	backgroundDBAttributes: hoppingSequenceNumber
<i>Modification:</i>	Online
<i>Range:</i>	0 (cyclic hopping) 1...63 (random hopping) ND (not defined)
<i>MML default:</i>	-
<i>Description:</i>	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.
<i>Related command(s):</i>	EQE, EQO, EFO

5.9 background MAIO offset (BMO)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	backgroundDBAttributes: maioOffset
<i>Modification:</i>	Online

<i>Range:</i>	0..62
	ND (not defined)
<i>MML default:</i>	-
<i>Description:</i>	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.
<i>Related command(s):</i>	EQA, EQO, EFO

5.10 background MAIO step (BMS)

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

5.11 background mobile allocation frequency list (BMAL)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	backgroundDBAttributes: usedMobileAllocation
<i>Modification:</i>	Online
<i>Range:</i>	0..128
	The value 0 detaches the BTS from any mobile allocation frequency list.
	ND (not defined)
<i>MML default:</i>	-
<i>Description:</i>	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.
<i>Related command(s):</i>	EQA, EQO, EFO

5.12 background network colour code (BNCC)

<i>GSM reference:</i>	I-ETS 300 022-1 (GSM 04.08)
	I-ETS 300 030 (GSM 05.02)
<i>Q3 name:</i>	backgroundDBAttributes: bsIdentityCode
<i>Modification:</i>	Online
<i>Range:</i>	0..7
	ND (not defined)
<i>MML default:</i>	-

<i>Description:</i>	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.
<i>Related command(s):</i>	EQE, EQO
<i>Note:</i>	The BSIC parameter is composed of the NCC and BCC parameters.

5.13 background underlay BTS hopping mode (BUHOP)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	backgroundDBAttributes: underlayHoppingMode
<i>Modification:</i>	Online
<i>Range:</i>	BB (baseband hopping is used) RF (radio frequency hopping is used) N (hopping is not used) ND (not defined)
<i>MML default:</i>	-
<i>Description:</i>	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.
<i>Related command(s):</i>	EQE, EQO, EFO
<i>Note:</i>	OPTIONAL ((Intelligent Underlay Overlay OR Intelligent Coverage Enhancement) AND Intelligent Frequency Hopping)

5.14 background underlay hopping sequence number (BUHSN)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	backgroundDBAttributes: hoppingSequenceNumber
<i>Modification:</i>	Online
<i>Range:</i>	0 (cyclic hopping) 1...63 (random hopping) ND (not defined)
<i>MML default:</i>	-
<i>Description:</i>	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.
<i>Related command(s):</i>	EQC, EQE, EQO, EFO
<i>Note:</i>	OPTIONAL (Intelligent Underlay Overlay AND Intelligent Frequency Hopping)

5.15 background underlay MAIO offset (BUMO)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	backgroundDBAttributes: underlayMaioOffset
<i>Modification:</i>	Online
<i>Range:</i>	0..62 ND (not defined)
<i>MML default:</i>	-

<i>Description:</i>	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.
<i>Related command(s):</i>	EQA, EQO, EFO
<i>Note:</i>	OPTIONAL ((Intelligent Underlay Overlay OR Intelligent Coverage Enhancement) AND Intelligent Frequency Hopping)

5.16 background underlay MAIO step (BUMS)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	backgroundDBAttributes: underlayMaioStep
<i>Modification:</i>	Online
<i>Range:</i>	1..62 ND (not defined)
<i>MML default:</i>	-
<i>Description:</i>	With this parameter you set the underlay MAIO step used as background data. Parameter value ND removes the old value of the background parameter.
<i>Related command(s):</i>	EQA, EQO, EFO
<i>Note:</i>	OPTIONAL ((Intelligent Underlay Overlay OR Intelligent Coverage Enhancement) AND Intelligent Frequency Hopping AND Flexible MAIO management)

5.17 background underlay mobile allocation frequency list (BUMAL)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	backgroundDBAttributes: underlayMA
<i>Modification:</i>	Online
<i>Range:</i>	0..128 (the value 0 detaches the BTS from any mobile allocation frequency list) ND (not defined)
<i>MML default:</i>	-
<i>Description:</i>	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.
<i>Related command(s):</i>	EQA, EQO, EFO
<i>Note:</i>	OPTIONAL ((Intelligent Underlay Overlay OR Intelligent Coverage Enhancement) AND Intelligent Frequency Hopping)

5.18 BCCH allocation usage for active MS (ACT)

<i>GSM reference:</i>	I-ETS 300 034-1 (GSM 05.08)
<i>Q3 name:</i>	measurementBCCHAllocation
<i>Modification:</i>	Online
<i>Range:</i>	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)
<i>MML default:</i>	ADJ

<i>Description:</i>	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.
<i>Related command(s):</i>	EQB, EQO
<i>Note:</i>	OPTIONAL (Double BA-lists)

5.19 boundary 1-4 (BO1-BO4)

<i>GSM reference:</i>	I-ETS 300 034-1 (GSM 05.08)
<i>Q3 name:</i>	interferenceAveragingProcess
<i>Modification:</i>	Online
<i>Range:</i>	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)
<i>MML default:</i>	BO0: -110 BO1: -105 BO2: -100 BO3: -95 BO4: -90 BO5: -47
<i>Description:</i>	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.
<i>Related command(s):</i>	EQK, EQO

5.20 BTS colour code (BCC)

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

5.21 BTS identification

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	bts-ID
<i>Modification:</i>	Read only
<i>Range:</i>	1..248
	The value range depends on the BSC hardware configuration and the corresponding options.

<i>MML default:</i>	-
<i>Description:</i>	With this parameter you identify the BTS. The identification number must be unique within a BSC.
<i>Related command(s):</i>	EQC, EQD, EQO

5.22 BTS hopping mode (HOP)

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

5.23 BTS load threshold (BLT)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	btsLoadThreshold
<i>Modification:</i>	Online
<i>Range:</i>	0..100 (%)
<i>MML default:</i>	70
<i>Description:</i>	<p>With this parameter you define which proportion of reserved or unavailable channels in all channels is acceptable.</p> <p>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.</p>
<i>Related command(s):</i>	EQM, EQO

5.24 BTS measure average (BMA)

<i>GSM reference:</i>	I-ETS 300 034-1 (GSM 05.08)
<i>Q3 name:</i>	btsMeasAver
<i>Modification:</i>	Online
<i>Range:</i>	1..4
<i>MML default:</i>	1
<i>Description:</i>	<p>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.</p>
<i>Related command(s):</i>	EQM, EQO

5.25 BTS name (NAME)

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

5.26 call re-establishment allowed (RE)

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

5.27 cell bar qualify (QUA)

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

5.28 cell barred (BAR)

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

5.29 cell identity (CI)

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

5.30 cell load for channel search (CLC)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	cellLoadForChannelSearch
<i>Modification:</i>	Online
<i>Range:</i>	0 ... 100 (%)
<i>MML default:</i>	0

<i>Description:</i>	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.
<i>Related command(s):</i>	EQM, EQO
<i>Note:</i>	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 <i>load rate for channel search</i> .

5.31 cell reselect hysteresis (HYS)

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

5.32 cell reselect offset (REO)

<i>GSM reference:</i>	ETS 300 574 (GSM 05.02)
<i>Q3 name:</i>	cellReselectOffset
<i>Modification:</i>	Online
<i>Range:</i>	0..126 (dB) with a step size of 2 dB
<i>MML default:</i>	0
<i>Description:</i>	With this parameter you define the offset of the C2 reselection criterion for a cell.
<i>Related command(s):</i>	EQM, EQO
<i>Note:</i>	OPTIONAL (C2 Cell Reselection parameter)

5.33 cell reselection parameter index (PI)

<i>GSM reference:</i>	ETS 300 574 (GSM 05.02)
<i>Q3 name:</i>	cellReselectParamInd
<i>Modification:</i>	Online
<i>Range:</i>	Y/N
<i>MML default:</i>	N
<i>Description:</i>	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.
<i>Related command(s):</i>	EQM, EQO
<i>Note:</i>	OPTIONAL (C2 Cell Reselection parameter)

5.34 cell type (CTY)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	cellType
<i>Modification:</i>	Online
<i>Range:</i>	GSM / MCN
<i>MML default:</i>	GSM
<i>Description:</i>	Type of cell.
<i>Related command(s):</i>	EQF, EQO
<i>Note:</i>	Check adjacent cell parameters.
	OPTIONAL (Intelligent Directed Retry (IDR)).

5.35 C/N threshold (CNT)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	cnThreshold
<i>Modification:</i>	Online
<i>Range:</i>	0..63 (dB)
<i>MML default:</i>	0 (disabled)
<i>Description:</i>	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.
<i>Related command(s):</i>	EQK, EQO

5.36 dedicated GPRS capacity (CDED)

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

5.37 default GPRS capacity (CDEF)

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

5.38 directed retry method (DRM)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	drMethod
<i>Modification:</i>	Online
<i>Range:</i>	0 (basic directed retry method) 1 (threshold evaluation method)
<i>MML default:</i>	0
<i>Description:</i>	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.
<i>Related command(s):</i>	EQF, EQO
<i>Note:</i>	OPTIONAL (Directed Retry OR Intelligent Directed Retry (IDR))

5.39 directed retry used (DR)

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

5.40 DTX mode (DTX)

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

5.41 early sending indication (ESI)

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

5.42 emergency call restricted (EC)

<i>GSM reference:</i>	I-ETS 300 022-1 (GSM 04.08)
<i>Q3 name:</i>	emergencyCallRestricted
<i>Modification:</i>	Online
<i>Range:</i>	Y/N
<i>MML default:</i>	N
<i>Description:</i>	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.
<i>Related command(s):</i>	EQF, EQO

5.43 frequency band in use (BAND)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	frequencyBandInUse
<i>Modification:</i>	Read only
<i>Range:</i>	GSM, DCS, DCS19
<i>MML default:</i>	-
<i>Description:</i>	With this parameter you indicate the frequency band used in the BTS. The band is either GSM (900MHz), GSM 1800, or GSM 1900.
<i>Related command(s):</i>	EQC, EQO

5.44 GPRS enable (GENA)

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

5.45 hopping sequence number 1 (HSN1)

<i>GSM reference:</i>	I-ETS 300 022-1 (GSM 04.08)
	I-ETS 300 030 (GSM 05.02)
<i>Q3 name:</i>	hoppingSequenceNumber
<i>Modification:</i>	When BTS is locked
<i>Range:</i>	0 (cyclic hopping)
	1...63 (random hopping)
<i>MML default:</i>	0

<i>Description:</i>	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).
<i>Related command(s):</i>	EQC, EQE, EQO, EFO
<i>Note:</i>	<p>Check that either cyclic or random hopping is used in the whole site.</p> <p>The parameter is only used with BB and RF hopping. See the <i>BTS hopping mode</i> parameter.</p>

5.46 hopping sequence number 2 (HSN2)

<i>GSM reference:</i>	I-ETS 300 022-1 (GSM 04.08)
	I-ETS 300 030 (GSM 05.02)
<i>Q3 name:</i>	hoppingSequenceNumber
<i>Modification:</i>	When BTS is locked
<i>Range:</i>	0 (cyclic hopping)
	1...63 (random hopping)
<i>MML default:</i>	0

<i>Description:</i>	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).
<i>Related command(s):</i>	EQC, EQE, EQO, EFO
<i>Note:</i>	<p>Check that either cyclic or random hopping is used in the whole site.</p> <p>The parameter is only used only with BB hopping. See the <i>BTS hopping mode</i> parameter.</p>

5.47 HSCSD cell load lower limit (HCL)

<i>GSM reference:</i>	GSM TS 02.34 (GSM 02.34) TS 101 038 (GSM 03.34)
<i>Q3 name:</i>	lowerLimitCellLoadHSCSD
<i>Modification:</i>	Online
<i>Range:</i>	0..100 (%)
<i>MML default:</i>	100
<i>Description:</i>	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.
<i>Related command(s):</i>	EQX, EQO
<i>Note:</i>	OPTIONAL (High Speed Circuit Switched Data)

5.48 HSCSD cell load upper limit (HCU)

<i>GSM reference:</i>	GSM TS 02.34 (GSM 02.34) TS 101 038 (GSM 03.34)
<i>Q3 name:</i>	upperLimitCellLoadHSCSD
<i>Modification:</i>	Online
<i>Range:</i>	0..100 (%)
<i>MML default:</i>	100
<i>Description:</i>	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.
<i>Related command(s):</i>	EQX, EQO
<i>Note:</i>	OPTIONAL (High Speed Circuit Switched Data)

5.49 HSCSD downgrade guard time (HDT)

<i>GSM reference:</i>	GSM TS 02.34 (GSM 02.34) TS 101 038 (GSM 03.34)
<i>Q3 name:</i>	downgradeGuardTimeHSCSD
<i>Modification:</i>	Online
<i>Range:</i>	0 (deactivated) 1..65535 (s)
<i>MML default:</i>	0 (HSCSD)

<i>Description:</i>	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.
<i>Related command(s):</i>	EQX, EQO
<i>Note:</i>	OPTIONAL (High Speed Circuit Switched Data)

5.50 HSCSD minimum exhaust (HME)

<i>GSM reference:</i>	GSM TS 02.34 (GSM 02.34) TS 101 038 (GSM 03.34)
<i>Q3 name:</i>	minExhaustHSCSD
<i>Modification:</i>	Online
<i>Range:</i>	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)
<i>MML default:</i>	1
<i>Description:</i>	With this parameter you determine how much the data rate should decrease at least during the downgrade of an HSCSD call.
<i>Related command(s):</i>	EQX, EQO
<i>Note:</i>	OPTIONAL (High Speed Circuit Switched Data)

5.51 HSCSD regular cell load upper limit (HRCU)

<i>GSM reference:</i>	GSM TS 02.34 (GSM 02.34) TS 101 038 (GSM 03.34)
<i>Q3 name:</i>	upperLimitRegularLoadHSCSD
<i>Modification:</i>	Online
<i>Range:</i>	0..100 (%)
<i>MML default:</i>	100
<i>Description:</i>	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.
<i>Related command(s):</i>	EQX, EQO
<i>Note:</i>	OPTIONAL (High Speed Circuit Switched Data)

5.52 HSCSD TCH capacity minimum (HTM)

<i>GSM reference:</i>	GSM TS 02.34 (GSM 02.34) TS 101 038 (GSM 03.34)
<i>Q3 name:</i>	minHSCSDcapacityCell
<i>Modification:</i>	Online
<i>Range:</i>	0..100 (%)
<i>MML default:</i>	100

<i>Description:</i>	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.
<i>Related command(s):</i>	EQX, EQO
<i>Note:</i>	OPTIONAL (High Speed Circuit Switched Data)

5.53 HSCSD upgrade gain (HUG)

<i>GSM reference:</i>	GSM TS 02.34 (GSM 02.34) TS 101 038 (GSM 03.34)
<i>Q3 name:</i>	upgradeGainHSCSD
<i>Modification:</i>	Online
<i>Range:</i>	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%)
<i>MML default:</i>	0
<i>Description:</i>	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.
<i>Related command(s):</i>	EQX, EQO
<i>Note:</i>	OPTIONAL (High Speed Circuit Switched Data)

5.54 HSCSD upgrade guard time (HUT)

<i>GSM reference:</i>	GSM TS 02.34 (GSM 02.34) TS 101 038 (GSM 03.34)
<i>Q3 name:</i>	upgradeGuardTimeHSCSD
<i>Modification:</i>	Online
<i>Range:</i>	0 (deactivated) 1..65535 (s)
<i>MML default:</i>	0
<i>Description:</i>	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.
<i>Related command(s):</i>	EQX, EQO
<i>Note:</i>	OPTIONAL (High Speed Circuit Switched Data)

5.55 identification of BCCH frequency list (IDLE)

<i>GSM reference:</i>	I-ETS 300 034-1 (GSM 05.08)
<i>Q3 name:</i>	idleStateBCCHAllocation
<i>Modification:</i>	Online
<i>Range:</i>	0 (BCCH frequency list is taken from the adjacent cells defined for the BTS) 1...255 (identification of BCCH frequency list)
<i>MML default:</i>	0

<i>Description:</i>	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.
<i>Related command(s):</i>	EQB, EQO
<i>Note:</i>	OPTIONAL (Double BA-lists)

5.56 intelligent directed retry used (IDR)

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

5.57 limit for free TCHs (LIMIT)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	freeTchLimit
<i>Modification:</i>	Online
<i>Range:</i>	1..16
<i>MML default:</i>	16

<i>Description:</i>	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.
<i>Related command(s):</i>	EQT, EQO, ETO
<i>Note:</i>	OPTIONAL (Improved Trunk Reservation (TR))

5.58 location area code (LAC)

<i>GSM reference:</i>	I-ETS 300 022-1 (GSM 04.08)
<i>Q3 name:</i>	locationAreald
<i>Modification:</i>	When BTS is locked
<i>Range:</i>	0..65535
<i>MML default:</i>	-
<i>Description:</i>	With this parameter you identify the location area code number.
<i>Related command(s):</i>	EQC, EQE, EQO, EEI
<i>Note:</i>	The LAI (<i>location area id</i>) 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.

5.59 lower limit for FR TCH resources (FRL)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	btsSpLoadDepTCHRate
<i>Modification:</i>	Online

<i>Range:</i>	0..100 (%)
<i>MML default:</i>	100
<i>Description:</i>	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.
<i>Related command(s):</i>	EQM, EQO
<i>Note:</i>	OPTIONAL (Half Rate)

5.60 MAIO offset (MO)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	maioOffset
<i>Modification:</i>	If the BTS is RF hopping, the BTS or overlay TRXs must be locked.
<i>Range:</i>	0..62
<i>MML default:</i>	0
<i>Description:</i>	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.
<i>Related command(s):</i>	EQA, EQO, EFO

5.61 MAIO step (MS)

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

5.62 max number of repetition (NY1)

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

5.63 max number of retransmission (RET)

<i>GSM reference:</i>	I-ETS 300 022-1 (GSM 04.08)
	I-ETS 300 022-1 (GSM 04.08)
<i>Q3 name:</i>	maxNumberRetransmission
<i>Modification:</i>	Online
<i>Range:</i>	1, 2, 4 or 7
<i>MML default:</i>	4
<i>Description:</i>	With this parameter you define the maximum number of retransmissions on the RACH (random access channel) that the MS can perform.
<i>Related command(s):</i>	EQM, EQO

5.64 max queue length (MQL)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	maxQueueLength
<i>Modification:</i>	Online
<i>Range:</i>	0..100 (%)
<i>MML default:</i>	50
<i>Description:</i>	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.
<i>Related command(s):</i>	EQH, EQO

5.65 max time limit directed retry (MADR)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	maxTimeLimitDirectedRetry
<i>Modification:</i>	Online
<i>Range:</i>	1..15 (s)
<i>MML default:</i>	5
<i>Description:</i>	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.
<i>Related command(s):</i>	EQF, EQO
<i>Note:</i>	OPTIONAL (Directed Retry OR Intelligent Directed Retry (IDR))

5.66 min time limit directed retry (MIDR)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	minTimeLimitDirectedRetry
<i>Modification:</i>	Online
<i>Range:</i>	0..14 (s)
<i>MML default:</i>	0
<i>Description:</i>	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.
<i>Related command(s):</i>	EQF, EQO
<i>Note:</i>	OPTIONAL (Directed Retry OR Intelligent Directed Retry (IDR))

5.67 mobile allocation frequency list (MAL)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	usedMobileAllocation
<i>Modification:</i>	If BTS is RF hopping, the BTS must be locked
<i>Range:</i>	0..128
	Value 0 detaches the BTS from any mobile allocation frequency list.
<i>MML default:</i>	No MA list attached
<i>Description:</i>	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).
<i>Related command(s):</i>	EQA, EQO

5.68 mobile country code (MCC)

<i>GSM reference:</i>	I-ETS 300 022-1 (GSM 04.08)
<i>Q3 name:</i>	locationAreald
<i>Modification:</i>	When BTS is locked
<i>Range:</i>	0..999
<i>MML default:</i>	-
<i>Description:</i>	With this parameter you identify the mobile country code number.
<i>Related command(s):</i>	EQC, EQE, EQO
<i>Note:</i>	The <i>location area id</i> (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.

5.69 mobile network code (MNC)

<i>GSM reference:</i>	I-ETS 300 022-1 (GSM 04.08)
<i>Q3 name:</i>	locationArealId
<i>Modification:</i>	When BTS is locked
<i>Range:</i>	0..99 0..999 OPTIONAL (Three digit MNC)
<i>MML default:</i>	-
<i>Description:</i>	With this parameter you identify the mobile network code number.
<i>Related command(s):</i>	EQC, EQE, EQO
<i>Note:</i>	The <i>location area id</i> (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.

5.70 MS max distance in call setup (DMAX)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	msMaxDistanceInCallSetup
<i>Modification:</i>	Online
<i>Range:</i>	0..255

<i>MML default:</i>	255
<i>Description:</i>	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.
<i>Related command(s):</i>	EQM, EQO

5.71 MS priority used (MPU)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	msPriorityUsedInQueueing
<i>Modification:</i>	Online
<i>Range:</i>	Y/N
<i>MML default:</i>	Y
<i>Description:</i>	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.
<i>Related command(s):</i>	EQH, EQO

5.72 MS txpwr max (PMAX)

<i>GSM reference:</i>	I-ETS 300 034-1 (GSM 05.08)
<i>Q3 name:</i>	msTxPwrMax
<i>Modification:</i>	Online

<i>Range:</i>	GSM: 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)
<i>MML default:</i>	GSM: 33
	GSM 1800: 30
	GSM 1900: 30
<i>Description:</i>	With this parameter you define the maximum power level an MS may use in the serving cell.
<i>Related command(s):</i>	EQM, EQO
<i>Note:</i>	Check adjacent cell parameters.

5.73 MS txpwr max CCH (TXP)

<i>GSM reference:</i>	I-ETS 300 022-1 (GSM 04.08)
<i>Q3 name:</i>	msTxPwrMaxCCH
<i>Modification:</i>	Online
<i>Range:</i>	GSM: 5..43 (dBm), with step size of 2
	GSM 1800: 0..30 (dBm), with step size of 2
	GSM 1900: 0..32 (dBm), with step size of 2, and 33 (dBm)
<i>MML default:</i>	GSM: 33
	GSM 1800: 30
	GSM 1900: 30
<i>Description:</i>	With this parameter you define the maximum transmission power an MS may use when accessing a CCH in the cell.
<i>Related command(s):</i>	EQG, EQO

5.74 MS txpwr min (PMIN)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	minMSTxPower
<i>Modification:</i>	Online
<i>Range:</i>	GSM: 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)
<i>MML default:</i>	GSM: 5 GSM 1800: 0 GSM 1900: 0
<i>Description:</i>	With this parameter you define the minimum power level an MS may use in the serving cell.
<i>Related command(s):</i>	EQM, EQO

5.75 multiband cell reporting (MBR)

<i>GSM reference:</i>	ETS 300 557 (GSM 04.08) ETS 300 578 (GSM 05.08) TR 101 266 (GSM 03.26)
<i>Q3 name:</i>	multiBandCellReporting
<i>Modification:</i>	Online
<i>Range:</i>	0..3
<i>MML default:</i>	1

<i>Description:</i>	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.
<i>Related command(s):</i>	EQM, EQO
<i>Note:</i>	OPTIONAL (Dual Band GSM/DCS)

5.76 network colour code (NCC)

<i>GSM reference:</i>	I-ETS 300 022-1 (GSM 04.08) I-ETS 300 030 (GSM 05.02)
<i>Q3 name:</i>	bslIdentityCode
<i>Modification:</i>	When BTS is locked
<i>Range:</i>	0..7
<i>MML default:</i>	-
<i>Description:</i>	With this parameter you identify the network colour code number.
<i>Related command(s):</i>	EQC, EQE, EQO
<i>Note:</i>	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.

5.77 new establishment causes support (NECI)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	newEstabCausesSupport
<i>Modification:</i>	Online
<i>Range:</i>	Y/N

<i>MML default:</i>	N
<i>Description:</i>	With this parameter you define whether the BSC supports new establishment causes.
<i>Related command(s):</i>	EQM, EQO

5.78 not allowed access classes (ACC)

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

5.79 number of blocks for access grant msg (AG)

<i>GSM reference:</i>	I-ETS 300 022-1 (GSM 04.08)
	I-ETS 300 030 (GSM 05.02)
	I-ETS 300 030 (GSM 05.02)
<i>Q3 name:</i>	noOfBlocksForAccessGrant
<i>Modification:</i>	When BTS is locked
<i>Range:</i>	0..7 (if combined BCCH not used)
	1..7 (if CBCH used at SDCCH/8)
	0..2 (if combined BCCH used)

<i>MML default:</i>	1
<i>Description:</i>	With this parameter you define the number of blocks reserved for access grant messages from the CCCH during the 51 TDMA frame (a multiframe).
<i>Related command(s):</i>	EQJ, EQO

5.80 number of multiframe (MFR)

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

5.81 number of slots spread trans (SLO)

<i>GSM reference:</i>	I-ETS 300 022-1 (GSM 04.08)
<i>Q3 name:</i>	numberOfSlotsSpreadTrans
<i>Modification:</i>	Online
<i>Range:</i>	3..12, 14, 16, 20, 25, 32, 50

<i>MML default:</i>	10
<i>Description:</i>	With this parameter you define the number of TDMA frames over which retransmission is spread on the RACH (random access channel).
<i>Related command(s):</i>	EQM, EQO

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

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

5.83 penalty time (PET)

<i>GSM reference:</i>	ETS 300 574 (GSM 05.02)
<i>Q3 name:</i>	penaltyTime
<i>Modification:</i>	Online
<i>Range:</i>	20..640 (s)
<i>MML default:</i>	20

<i>Description:</i>	With this parameter you define the duration for which the <i>temporary offset</i> (TEO) applies. The parameter can be changed in steps of 20 s. Value 640 s indicates that the sign of the <i>cell reselect offset</i> (REO) parameter will be changed and the <i>temporary offset</i> (TEO) parameter will be ignored.
<i>Related command(s):</i>	EQM, EQO
<i>Note:</i>	OPTIONAL (C2 Cell reselection parameter)

5.84 PLMN permitted (PLMN)

<i>GSM reference:</i>	I-ETS 300 022-1 (GSM 04.08) I-ETS 300 034-1 (GSM 05.08)
<i>Q3 name:</i>	plmn-permitted
<i>Modification:</i>	Online
<i>Range:</i>	0..7
<i>MML default:</i>	The NCC of the BTS
<i>Description:</i>	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.
<i>Related command(s):</i>	EQF, EQO

5.85 power offset (PO)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	powerOffset
<i>Modification:</i>	Online
<i>Range:</i>	0..6 (dBm) with a step size of 2

<i>MML default:</i>	0
<i>Description:</i>	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 <i>ms txpwr max cch</i> (TXP) + <i>power offset</i> (PO).
<i>Related command(s):</i>	EQG, EQO

5.86 prefer BCCH frequency GPRS (BFG)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	preferBCCHfreqGPRS
<i>Modification:</i>	When the BTS is locked or the GPRS is disabled
<i>Range:</i>	Y/N
<i>MML default:</i>	N
<i>Description:</i>	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 prioritization used for circuit switched traffic.
<i>Related command(s):</i>	EQV, EQO
<i>Note:</i>	OPTIONAL (Gb Interface functionality)

5.87 queue priority used (QPU)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	queuePriorityUsed
<i>Modification:</i>	Online
<i>Range:</i>	Y/N

<i>MML default:</i>	Y
<i>Description:</i>	With this parameter you define whether the BSC internal queuing type priority (parameters <i>queueing priority call</i> (QPC), <i>queueing priority urgent handover</i> (QPH) and <i>queueing priority non-urgent handover</i> (QPN)) is taken into account in queue handling.
<i>Related command(s):</i>	EQH, EQO

5.88 queueing priority call (QPC)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	queueingPriorityCall
<i>Modification:</i>	Online
<i>Range:</i>	1..14 (1 = highest priority)
<i>MML default:</i>	10
<i>Description:</i>	<p>With this parameter you define the call attempt priority in the BTS.</p> <p><i>Queueing priority call</i> 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.</p>
<i>Related command(s):</i>	EQH, EQO

5.89 queueing priority non-urgent handover (QPN)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	queuePriorityNonUrgentHo
<i>Modification:</i>	Online
<i>Range:</i>	1..14 (1 = highest priority)
<i>MML default:</i>	9
<i>Description:</i>	<p>With this parameter you define the non-urgent handover attempt (queuing type) priority in the BTS.</p> <p><i>Queueing priority non-urgent handover</i> 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.</p>
<i>Related command(s):</i>	EQH, EQO

5.90 queueing priority urgent handover (QPH)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	queueingPriorityHandover
<i>Modification:</i>	Online
<i>Range:</i>	1..14 (1 = highest priority)

<i>MML default:</i>	9
<i>Description:</i>	With this parameter you define the urgent handover attempt (queuing type) priority in the BTS. <i>Queueing priority urgent handover</i> 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.
<i>Related command(s):</i>	EQH, EQO

5.91 radio link timeout (RLT)

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

5.92 radius extension (EXT)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	radiusExtension
<i>Modification:</i>	When BTS is locked

<i>Range:</i>	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.
<i>MML default:</i>	0 (ordinary cell)
<i>Description:</i>	With this parameter you define the radius extension of an extended cell.
<i>Related command(s):</i>	EQM, EQO
<i>Note:</i>	OPTIONAL (Improved solution for Extended cell radius)

5.93 reservation method used in trunk reservation (REM)

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

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

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

5.95 routing area code (RAC)

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

5.96 RX diversity (RDIV)

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

5.97 rxlev access min (RXP)

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

5.98 SMS CB used (CB)

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

5.99 softblocking threshold on regular frequencies (STR)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	softBlockingStartReg
<i>Modification:</i>	Online
<i>Range:</i>	0..255
<i>MML default:</i>	255
<i>Description:</i>	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.
<i>Related command(s):</i>	EQM, EQO
<i>Note:</i>	OPTIONAL (Dynamic Hotspot)

5.100 **softblocking threshold on super-reuse frequencies (STS)**

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	softBlockingStartSup
<i>Modification:</i>	Online
<i>Range:</i>	0..255
<i>MML default:</i>	255
<i>Description:</i>	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.
<i>Related command(s):</i>	EQM, EQO
<i>Note:</i>	OPTIONAL (Dynamic Hotspot)

5.101 **table identification (TBL)**

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	-
<i>Modification:</i>	Online
<i>Range:</i>	0..64
<i>MML default:</i>	-

<i>Description:</i>	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.
<i>Related command(s):</i>	EQT, EQO, ETO
<i>Note:</i>	OPTIONAL (Improved Trunk Reservation (TR))

5.102 TCH rate intra-cell handover (TRIH)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	tchrateIntraCellHo
<i>Modification:</i>	Online
<i>Range:</i>	<p>0 (constraints given by the BSS-level parameter <i>TCH rate internal HO</i> are followed)</p> <p>1 (the call serving type of TCH and the call serving type of speech codec are preferred to be primarily allocated)</p> <p>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)</p> <p>3 (the channel rate and speech codec changes are totally denied. The call serving type of channel is only alternative in TCH allocation)</p> <p>4 (the preferred channel rate of TCH and preferred speech codec have to be primarily allocated)</p>
<i>MML default:</i>	0

<i>Description:</i>	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.
<i>Related command(s):</i>	EQM, EQO
<i>Note:</i>	OPTIONAL (Half Rate OR Enhanced Full Rate Codec)

5.103 temporary offset (TEO)

<i>GSM reference:</i>	ETS 300 574 (GSM 05.02) ver 4.5.0 6.4
<i>Q3 name:</i>	temporaryOffset
<i>Modification:</i>	Online
<i>Range:</i>	0..70 (dB) with a step size of 10 dB
<i>MML default:</i>	0
<i>Description:</i>	With this parameter you define the negative offset of the C2 reselection criterion for the duration of the <i>penalty time</i> (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.
<i>Related command(s):</i>	EQM, EQO
<i>Note:</i>	OPTIONAL (C2 Cell reselection parameter)

5.104 time limit call (TLC)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	timeLimitCall
<i>Modification:</i>	Online
<i>Range:</i>	0..15 (s)

<i>MML default:</i>	10
<i>Description:</i>	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.
<i>Related command(s):</i>	EQH, EQO

5.105 time limit handover (TLH)

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

5.106 timer for periodic MS location updating (PER)

<i>GSM reference:</i>	I-ETS 300 022-1 (GSM 04.08)
<i>Q3 name:</i>	timerPeriodicUpdateMS
<i>Modification:</i>	Online
<i>Range:</i>	0 ..25.5 (hours) with a step of 0.1 0 (PER not performed)
<i>MML default:</i>	0.5

<i>Description:</i>	With this parameter you define the interval between periodic MS location updates. The value 0 means that the periodic location update is not used.
<i>Related command(s):</i>	EQJ, EQO
<i>Note:</i>	PER period must be shorter than the "implicit deregistration" period in VLR. Otherwise mobile terminating calls may fail.

5.107 traffic types (TT)

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

5.108 trunk reservation used (TR)

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

5.109 TRX priority in TCH allocation (TRP)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	trxPriorityInTCHAlloc
<i>Modification:</i>	Online
<i>Range:</i>	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)
<i>MML default:</i>	0
<i>Description:</i>	With this parameter you define whether the BCCH TRX or other TRXs (of the regular frequency area) are preferred in traffic channel allocation.
<i>Related command(s):</i>	EQM, EQO

5.110 underlay BTS hopping mode (UHOP)

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

5.111 underlay hopping sequence number (UHSN)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	hoppingSequenceNumber
<i>Modification:</i>	When BTS is locked
<i>Range:</i>	0 (cyclic hopping) 1...63 (random hopping)
<i>MML default:</i>	0

<i>Description:</i>	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.
<i>Related command(s):</i>	EQC, EQE, EQO, EFO
<i>Note:</i>	OPTIONAL (Intelligent Underlay Overlay AND Intelligent Frequency Hopping)

5.112 underlay MAIO offset (UMO)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	underlayMaioOffset
<i>Modification:</i>	If the BTS is RF hopping, the BTS or underlay TRXs must be locked.
<i>Range:</i>	0..62
	Value 0 detaches the BTS from any mobile allocation frequency list.
<i>MML default:</i>	0
<i>Description:</i>	With this parameter you set the lowest MAIO value of the underlay layer per sector.
<i>Related command(s):</i>	EQA, EQO, EFO
<i>Note:</i>	OPTIONAL ((Intelligent Underlay Overlay OR Intelligent Coverage Enhancement) AND Intelligent Frequency Hopping)

5.113 underlay MAIO step (UMS)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	underlayMaioStep
<i>Modification:</i>	If the BTS is RF hopping, the BTS or underlay TRXs must be locked.

<i>Range:</i>	1..62
<i>MML default:</i>	1
<i>Description:</i>	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.
<i>Related command(s):</i>	EQA, EQO, EFO
<i>Note:</i>	OPTIONAL ((Intelligent Underlay Overlay OR Intelligent Coverage Enhancement) AND Intelligent Frequency Hopping AND Flexible MAIO management)

5.114 underlay mobile allocation frequency list (UMAL)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	underlayMA
<i>Modification:</i>	If BTS is RF hopping, the BTS must be locked.
<i>Range:</i>	0..128
	Value 0 detaches the BTS from any mobile allocation frequency list.
<i>MML default:</i>	No MA list attached
<i>Description:</i>	With this parameter you define the mobile allocation frequency list to which the BTS's underlay layer will be attached.
<i>Related command(s):</i>	EQA, EQO, EFO, EBI, ERO
<i>Note:</i>	OPTIONAL ((Intelligent Underlay Overlay OR Intelligent Coverage Enhancement) AND Intelligent Frequency Hopping)

5.115 upper limit for FR TCH resources (FRU)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	btsSpLoadDepTCHRate
<i>Modification:</i>	Online
<i>Range:</i>	0..100 (%)
<i>MML default:</i>	0
<i>Description:</i>	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.
<i>Related command(s):</i>	EQM, EQO
<i>Note:</i>	OPTIONAL (Half Rate)

6 Adjacent cell (ADJC)

6.1 adjacent cell identification

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

6.2 adjacent cell layer (ACL)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	adjCellLayer
<i>Modification:</i>	Online

<i>Range:</i>	N (not in use) SAME UPPER LOWER
<i>MML default:</i>	N
<i>Description:</i>	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.
<i>Related command(s):</i>	EAC, EAM, EAO
<i>Note:</i>	OPTIONAL (Fast moving MS handling in macro cell)

6.3 background BCCH frequency (BFREQ)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	backgroundDBAttributes: bCCHFrequency
<i>Modification:</i>	Online
<i>Range:</i>	GSM: 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

<i>MML default:</i>	-
<i>Description:</i>	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.
<i>Related command(s):</i>	EAM, EAO

6.4 background BTS colour code (BBCC)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	backgroundDBAttributes: bsIdentityCode
<i>Modification:</i>	Online
<i>Range:</i>	0..7
	ND (not defined)
<i>MML default:</i>	-
<i>Description:</i>	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.
<i>Related command(s):</i>	EAM, EAO

6.5 background interfered cell (BIC)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	backgroundDBAttributes: interferedCell
<i>Modification:</i>	Online

<i>Range:</i>	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)
<i>MML default:</i>	-
<i>Description:</i>	With this you define the background parameter for <i>interfered cell</i> . In background data activation (EE command group), background data is swapped with active data.
<i>Related command(s):</i>	EAM, EAO
<i>Note:</i>	OPTIONAL (Dynamic Hotspot)

6.6 background network colour code (BNCC)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	backgroundDBAttributes: bsIdentityCode
<i>Modification:</i>	Online
<i>Range:</i>	0..7 ND (not defined)
<i>MML default:</i>	-
<i>Description:</i>	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.
<i>Related command(s):</i>	EAM, EAO

6.7 BCCH frequency (FREQ)

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

6.8 BTS colour code (BCC)

<i>GSM reference:</i>	I-ETS 300 022-1 (GSM 04.08)
<i>Q3 name:</i>	bsIdentityCode
<i>Modification:</i>	Online
<i>Range:</i>	0..7
<i>MML default:</i>	-

<i>Description:</i>	With this parameter you define the BTS colour code number.
<i>Related command(s):</i>	EAC, EAM, EAO
<i>Note:</i>	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.

6.9 cell identification of reference cell (CI1-CI5)

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

6.10 cell type (CTY)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	cellType
<i>Modification:</i>	Online
<i>Range:</i>	GSM
	MCN
<i>MML default:</i>	GSM

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

6.11 chained adj cell (CHAIN)

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

6.12 C/I estimation weight (W1-W5)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	ciEstWeight
<i>Modification:</i>	Online
<i>Range:</i>	0..10
<i>MML default:</i>	1

<i>Description:</i>	With this parameter you define the weighting coefficient of the reference cell. The value 0 detaches the corresponding reference cell from the adjacent cell.
<i>Related command(s):</i>	EAX, EAO
<i>Note:</i>	OPTIONAL (C/I Based Handover Candidate Evaluation)

6.13 Directed Retry threshold (DRT)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	drThreshold
<i>Modification:</i>	Online
<i>Range:</i>	-110 .. -47 (dBm)
<i>MML default:</i>	-100
<i>Description:</i>	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.
<i>Related command(s):</i>	EAC, EAM, EAO
<i>Note:</i>	OPTIONAL (Directed Retry OR Intelligent Directed Retry (IDR))

6.14 enable HO margin lev qual (MRGS)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	enableHoMarginLevQual
<i>Modification:</i>	Online
<i>Range:</i>	Y/N

<i>MML default:</i>	Y
<i>Description:</i>	With this parameter you define whether the handover margins for signal level and quality will be taken into account in the handover decision algorithm.
<i>Related command(s):</i>	EAM, EAO

6.15 fast moving threshold (FMT)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	fastMovingThreshold
<i>Modification:</i>	Online
<i>Range:</i>	0..255 (SACCH frames)
<i>MML default:</i>	0 (not in use)
<i>Description:</i>	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.
<i>Related command(s):</i>	EAC, EAM, EAO
<i>Note:</i>	OPTIONAL (Fast moving MS handling in macro cell)

6.16 HO level umbrella (AUCL)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	hoLevelUmbrella
<i>Modification:</i>	Online
<i>Range:</i>	-110..-47 (dBm)

<i>MML default:</i>	-47
<i>Description:</i>	With this parameter you define the minimum signal level of an adjacent cell, when a handover is allowed to an adjacent umbrella cell.
<i>Related command(s):</i>	EAC, EAM, EAO

6.17 HO load factor (OF)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	hoLoadFactor
<i>Modification:</i>	Online
<i>Range:</i>	0..7
<i>MML default:</i>	1
<i>Description:</i>	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.
<i>Related command(s):</i>	EAC, EAM, EAO
<i>Note:</i>	The <i>HO load factor</i> cannot be greater than the <i>HO priority level</i> .

6.18 HO margin lev (LMRG)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	hoMarginLev
<i>Modification:</i>	Online
<i>Range:</i>	-24..24 (dB) (1 dB step size)

<i>MML default:</i>	3
<i>Description:</i>	With this parameter you define a threshold for a handover caused by signal level.
<i>Related command(s):</i>	EAC, EAM, EAO

6.19 HO margin pbgt (PMRG)

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

6.20 HO margin qual (QMRG)

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

6.21 HO priority level (PRI)

<i>GSM reference:</i>	I-ETS 300 034-1 (GSM 05.08)
<i>Q3 name:</i>	hoPriorityLevel
<i>Modification:</i>	Online
<i>Range:</i>	0..7
<i>MML default:</i>	3
<i>Description:</i>	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.
<i>Related command(s):</i>	EAC, EAM, EAO

6.22 HO target area (HOTA)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	hoTargetArea
<i>Modification:</i>	Online
<i>Range:</i>	See the table below.
<i>MML default:</i>	0

<i>Description:</i>	<p>With this parameter you define whether the adjacent cell is a normal or an extended cell.</p> <p>The meanings of the HOTA values are:</p> <p>0 ... Normal cell or Nokia 2nd generation extended cell.</p> <p>1 ... Nokia UltraSite or Nokia Talk-family extended cell, BSC tries to allocate a new channel from a normal transceiver (N-TRX).</p> <p>2 ... Nokia UltraSite or Nokia Talk-family extended cell, BSC tries to allocate a new channel from an extended transceiver (E-TRX).</p> <p>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.</p>
<i>Related command(s):</i>	EAC, EAM, EAO, EAT
<i>Note:</i>	<p>OPTIONAL (Improved solution for extended range cell)</p> <p>You can check the values of the <i>HO target area</i> parameter with the EAT command.</p>

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

6.23 interfered cell (IC)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	interferedCell
<i>Modification:</i>	Online
<i>Range:</i>	0 (no interference) 1 (interference on regular frequencies) 2 (interference on super-reuse frequencies) 3 (interference on regular and super-reuse frequencies)
<i>MML default:</i>	0
<i>Description:</i>	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.
<i>Related command(s):</i>	EAC, EAM, EAO
<i>Note:</i>	OPTIONAL (Dynamic Hotspot)

6.24 level adjustment (L1-L5)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	levelAdjustment
<i>Modification:</i>	Online
<i>Range:</i>	-63..63 (dB)
<i>MML default:</i>	0

<i>Description:</i>	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.
<i>Related command(s):</i>	EAX, EAO
<i>Note:</i>	OPTIONAL (C/I Based Handover Candidate Evaluation)

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

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

6.26 MS pwr opt level (POPT)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	msPwrOptLevel
<i>Modification:</i>	Online
<i>Range:</i>	-110..-47 (dBm)
	N (no optimisation)
<i>MML default:</i>	N

<i>Description:</i>	<p>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.</p> <p>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.</p>
<i>Related command(s):</i>	EAC, EAM, EAO
<i>Note:</i>	OPTIONAL (Optimization of the MS Power Level in Handovers)

6.27 MS TX pwr max cell (PMAX)

<i>GSM reference:</i>	I-ETS 300 034-1 (GSM 05.08) (MS_TXPWR_MAX(n))
<i>Q3 name:</i>	msTxPwrMaxCell
<i>Modification:</i>	Online
<i>Range:</i>	GSM: 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)
<i>MML default:</i>	GSM: 33 GSM 1800: 30 GSM 1900: 30

<i>Description:</i>	With this parameter you define the maximum transmission power of the MS for each adjacent cell.
<i>Related command(s):</i>	EAC, EAM, EAO
<i>Note:</i>	The parameter must be the same as <i>MS TX pwr max</i> of an adjacent cell.

6.28 network colour code (NCC)

<i>GSM reference:</i>	I-ETS 300 022-1 (GSM 04.08)
<i>Q3 name:</i>	bsIdentityCode
<i>Modification:</i>	Online
<i>Range:</i>	0..7
<i>MML default:</i>	-
<i>Description:</i>	With this parameter you define the network colour code number.
<i>Related command(s):</i>	EAC, EAM, EAO
<i>Note:</i>	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.

6.29 RX lev min cell (SL)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	rxLevMinCell
<i>Modification:</i>	Online
<i>Range:</i>	-110..-47 (dBm)

<i>MML default:</i>	-100
<i>Description:</i>	With this parameter you define the minimum signal level of an adjacent cell, when a handover is allowed to one of them.
<i>Related command(s):</i>	EAC, EAM, EAO

6.30 synchronized (SYNC)

<i>GSM reference:</i>	I-ETS 300 022-1 (GSM 04.08)
<i>Q3 name:</i>	synchronized
<i>Modification:</i>	Online
<i>Range:</i>	Y/N
<i>MML default:</i>	N
<i>Description:</i>	With this parameter you define whether the adjacent cell is synchronized with the cell in use.
<i>Related command(s):</i>	EAC, EAM, EAO

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

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	dadlbTargetCell
<i>Modification:</i>	Online
<i>Range:</i>	Y/N
<i>MML default:</i>	N

<i>Description:</i>	With this parameter you define whether the direct access to desired layer/band handover is applied to the adjacent cell.
<i>Related command(s):</i>	EAC, EAM, EAO
<i>Note:</i>	OPTIONAL (Direct Access to Desired Layer/Band)

6.32 TRHO target level (TRHO)

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

7

Handover control (HOC)

7.1 adjacent cell averaging window size (AWS)

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

7.2 all adjacent cells averaged (AAC)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	allAdjacentCellsAveraged
<i>Modification:</i>	Online
<i>Range:</i>	Y (all adjacent cells) N (the six best adjacent cells)

<i>MML default:</i>	N
<i>Description:</i>	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.
<i>Related command(s):</i>	EHC, EHN, EHO

7.3 all interfering cells averaged (AVER)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	allInterfCellsAveraged
<i>Modification:</i>	Online
<i>Range:</i>	Y/N
<i>MML default:</i>	N
<i>Description:</i>	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).
<i>Related command(s):</i>	EHC, EHY, EHO
<i>Note:</i>	OPTIONAL (Intelligent Underlay Overlay)

7.4 AMH traffic control IUO (ATCI)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	amhTrafficControlIUO
<i>Modification:</i>	Online
<i>Range:</i>	Y/N
<i>MML default:</i>	N

<i>Description:</i>	With this parameter you indicate whether the Advanced Multilayer Handling is used with Intelligent Underlay-Overlay.
<i>Related command(s):</i>	EHC, EHG, EHO
<i>Note:</i>	OPTIONAL (Advanced Multilayer Handling, AMH)

7.5 AMH traffic control MCN (ATCM)

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

7.6 AMH TRHO pbgt margin (ATPM)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	amhTrhoPbgtMargin
<i>Modification:</i>	Online
<i>Range:</i>	-24 .. 24 (dBm) or N
<i>MML default:</i>	N (not active)

<i>Description:</i>	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 <i>amh upper load threshold</i> <option> (AUT) parameter of the EEM command.
<i>Related command(s):</i>	EHC, EHG, EHO
<i>Note:</i>	OPTIONAL (Advanced Multilayer Handling, AMH)

7.7 C/I estimation method

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

7.8 count of successive rapid field drop thresholds (CNT)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	hoThresholdsRapidLevUIN
<i>Modification:</i>	Online
<i>Range:</i>	0..32
<i>MML default:</i>	0 (HO disabled)
<i>Description:</i>	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.
<i>Related command(s):</i>	EHC, EHS, EHO
<i>Note:</i>	OPTIONAL (Chained cells in rapid field drop)

7.9 deep dropping edge monitoring window (ERMW)

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

7.10 enable enhanced rapid field drop (ERFD)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	erfdEnabled
<i>Modification:</i>	Online
<i>Range:</i>	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)
<i>MML default:</i>	DIS
<i>Description:</i>	With this parameter you indicate when the Enhanced Rapid Field Drop feature is enabled.
<i>Related command(s):</i>	EHC, EHS, EHO
<i>Note:</i>	OPTIONAL (Enhanced Rapid Field Drop)

7.11 enable fast averaging call setup (EFA)

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

7.12 enable fast averaging HO (EFH)

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

7.13 enable fast averaging PC (EFP)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	enaFastAvePC
<i>Modification:</i>	Online
<i>Range:</i>	Y/N
<i>MML default:</i>	N
<i>Description:</i>	With this parameter you indicate whether the Fast Handover Measurement Averaging Method after power control is enabled.
<i>Related command(s):</i>	EHC, EHG, EHO

7.14 enable inter FRT handover (EFHO)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	enableInterFrtluoHo
<i>Modification:</i>	Online
<i>Range:</i>	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)
<i>MML default:</i>	DIS
<i>Description:</i>	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.
<i>Related command(s):</i>	EHC, EHY, EHO
<i>Note:</i>	OPTIONAL (Intelligent Underlay Overlay)

7.15 enable intracell handover interference UL (EIC)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	enableIntracellHandover, enableIntraHoInterUL
<i>Modification:</i>	Online
<i>Range:</i>	Y/N

<i>MML default:</i>	Y
<i>Description:</i>	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.
<i>Related command(s):</i>	EHC, EHG, EHO

7.16 enable intracell handover interference DL (EIH)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	enableIntracellHandover, enableIntraHoInterDL
<i>Modification:</i>	Online
<i>Range:</i>	Y/N
<i>MML default:</i>	Y
<i>Description:</i>	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.
<i>Related command(s):</i>	EHC, EHG, EHO

7.17 enable ms distance process (EMS)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	enableMSDistanceProcess
<i>Modification:</i>	Online
<i>Range:</i>	Y/N
<i>MML default:</i>	N

<i>Description:</i>	With this parameter you indicate whether the BTS - MS distance process is enabled.
<i>Related command(s):</i>	EHC, EHG, EHO
<i>Note:</i>	If "Y" check the <i>ms distance behaviour</i> parameter (a BSC specific parameter).

7.18 enable power budget handover (EPB)

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

7.19 enable SDCCH handover (ESD)

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

7.20 enable TCH assignment super IUO (ETA)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	enaTchAssSuperIUO
<i>Modification:</i>	Online
<i>Range:</i>	0..32 (SACCH periods)
<i>MML default:</i>	0
<i>Description:</i>	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.
<i>Related command(s):</i>	EHC, EHY, EHO
<i>Note:</i>	OPTIONAL (Intelligent Underlay Overlay AND Directed Retry)

7.21 enable umbrella handover (EUM)

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

7.22 enhanced rapid field drop duration (ERD)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	erfdOver
<i>Modification:</i>	Online
<i>Range:</i>	0..64 (s)
<i>MML default:</i>	10
<i>Description:</i>	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.
<i>Related command(s):</i>	EHC, EHS, EHO
<i>Note:</i>	OPTIONAL (Enhanced Rapid Field Drop)

7.23 handover period power budget (HPP)

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

7.24 handover period umbrella (HPU)

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

7.25 interfering cell averaging window size (SIZE)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	intfCellAvgWindowSize
<i>Modification:</i>	Online
<i>Range:</i>	1..32
<i>MML default:</i>	10 (SACCH periods)
<i>Description:</i>	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.
<i>Related command(s):</i>	EHC, EHY, EHO
<i>Note:</i>	OPTIONAL (Intelligent Underlay Overlay)

7.26 interfering cell number of zero results (ZERO)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	intfCellNbrOfZeroResults
<i>Modification:</i>	Online
<i>Range:</i>	0..31
<i>MML default:</i>	2 (SACCH periods)
<i>Description:</i>	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.
<i>Related command(s):</i>	EHC, EHY, EHO
<i>Note:</i>	OPTIONAL (Intelligent Underlay Overlay)

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

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

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

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

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

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	lowerCILimit
<i>Modification:</i>	Online
<i>Range:</i>	-128..127 (dB)
<i>MML default:</i>	L1: 30 L2: 25 L3: 20 L4: 17 L5: 13 L6: 9

<i>Description:</i>	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.
<i>Related command(s):</i>	EHX, EHO
<i>Note:</i>	OPTIONAL (C/I Based Handover Candidate Evaluation)

7.30 lower speed limit (LSL)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	lowerSpeedLimit
<i>Modification:</i>	Online
<i>Range:</i>	0..255
<i>MML default:</i>	0
<i>Description:</i>	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.
<i>Related command(s):</i>	EHC, EHP, EHO
<i>Note:</i>	OPTIONAL (Fast moving MS handling in macro cell)

7.31 min int between HO req (MIH)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	minIntBetweenHoReq
<i>Modification:</i>	Online
<i>Range:</i>	0..31 (s)
<i>MML default:</i>	5
<i>Description:</i>	With this parameter you define the minimum interval between handovers related to the same connection.
<i>Related command(s):</i>	EHC, EHG, EHO

7.32 min int between unsucc HO attempt (MIU)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	minIntBetweenUnsuccHoAttempt
<i>Modification:</i>	Online
<i>Range:</i>	0..31 (s)
<i>MML default:</i>	3
<i>Description:</i>	With this parameter you define the minimum interval between unsuccessful handover attempts related to the same connection.
<i>Related command(s):</i>	EHC, EHG, EHO

7.33 min interval between IUO HO req BQ (MIR)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	minIntluoHoReqBQ
<i>Modification:</i>	Online
<i>Range:</i>	0..255
<i>MML default:</i>	10
<i>Description:</i>	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.
<i>Related command(s):</i>	EHC, EHY, EHO
<i>Note:</i>	OPTIONAL (Intelligent Underlay Overlay)

7.34 min interval between unsucc IUO HO (MIO)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	minIntUnsuccluoHo
<i>Modification:</i>	Online
<i>Range:</i>	0..255
<i>MML default:</i>	20
<i>Description:</i>	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.
<i>Related command(s):</i>	EHC, EHY, EHO
<i>Note:</i>	OPTIONAL (Intelligent Underlay Overlay)

7.35 minimum BSIC decode time (TIM)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	minBsicDecodeTime
<i>Modification:</i>	Online
<i>Range:</i>	0..128 (SACCH periods)
<i>MML default:</i>	10
<i>Description:</i>	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.
<i>Related command(s):</i>	EHC, EHY, EHO
<i>Note:</i>	OPTIONAL (Intelligent Underlay Overlay)

7.36 modified averaging window (ERAW)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	modifiedAveWinNcell
<i>Modification:</i>	Online
<i>Range:</i>	1..32
<i>MML default:</i>	2
<i>Description:</i>	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.
<i>Related command(s):</i>	EHC, EHS, EHO
<i>Note:</i>	OPTIONAL (Enhanced Rapid Field Drop)

7.37 modified number of zero results (ERZ)

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

7.38 MS distance averaging window size (MSWS)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	msDistanceAveragingParam
<i>Modification:</i>	Online
<i>Range:</i>	1..32
<i>MML default:</i>	10
<i>Description:</i>	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.
<i>Related command(s):</i>	EHC, EHD, EHO

7.39 MS distance ho threshold ext cell max (MAX)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	maxMSDistanceHThreshold
<i>Modification:</i>	Online
<i>Range:</i>	0..63
<i>MML default:</i>	63
<i>Description:</i>	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.
<i>Related command(s):</i>	EHC, EHD, EHO
<i>Note:</i>	OPTIONAL (Improved solution for Extended cell radius)

7.40 MS distance ho threshold ext cell min (MIN)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	minMSDistanceHThreshold
<i>Modification:</i>	Online
<i>Range:</i>	0..63
<i>MML default:</i>	2

<i>Description:</i>	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.
<i>Related command(s):</i>	EHC, EHD, EHO
<i>Note:</i>	OPTIONAL (Improved solution for Extended cell radius)

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

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

7.42 MS speed averaging (MSA)

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

7.43 MS speed detection state (SDS)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	msSpeedDetectionState
<i>Modification:</i>	Online
<i>Range:</i>	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)
<i>MML default:</i>	0
<i>Description:</i>	With this parameter you indicate the method used for MS speed detection algorithm.
<i>Related command(s):</i>	EHC, EHP, EHO
<i>Note:</i>	OPTIONAL (MS Speed Detection State)

7.44 MS speed threshold Nx (STN)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	msSpeedThresholdNx
<i>Modification:</i>	Online
<i>Range:</i>	1..32
<i>MML default:</i>	6
<i>Description:</i>	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.
<i>Related command(s):</i>	EHC, EHP, EHO
<i>Note:</i>	OPTIONAL (Fast moving MS handling in macro cell)

7.45 MS speed threshold Px (STP)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	msSpeedThresholdPx
<i>Modification:</i>	Online
<i>Range:</i>	1..32
<i>MML default:</i>	3

<i>Description:</i>	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.
<i>Related command(s):</i>	EHC, EHP, EHO
<i>Note:</i>	OPTIONAL (Fast moving MS handling in macro cell)

7.46 number of zero results (NOZ)

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

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

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	priorityAdjStep
<i>Modification:</i>	Online
<i>Range:</i>	-8..7

<i>MML default:</i>	P1: 3 P2: 1 P3: 0 P4: -1 P5: -2 P6: -5 P7: -8
<i>Description:</i>	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.
<i>Related command(s):</i>	EHX, EHO
<i>Note:</i>	OPTIONAL (C/I Based Handover Candidate Evaluation)

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

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	hoAveragingQualDL
<i>Modification:</i>	Online
<i>Range:</i>	Window size: 1..32 Weighting: 1..3

<i>MML default:</i>	Window size: 1 (SACCH periods)
	Weighting: 1
<i>Description:</i>	The parameters calculate averaged values from signal quality downlink measurements. The window size represents the averaging window size in SACCH periods.
<i>Related command(s):</i>	EHA, EHC, EHO

7.49 **quality uplink window size (QUWS), weighting (QUW)**

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

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

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

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

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	superReuseBadRxLevThreshold Px Nx
<i>Modification:</i>	Online
<i>Range:</i>	Rx level: -110..-47 (dBm) Px: 1..32 Nx: 1..32
<i>MML default:</i>	Rx level: -85 Px: 2 Nx: 6
<i>Description:</i>	<p>The parameter is used for comparing the downlink signal level of the super-reuse TRX for triggering the handover to a regular TRX.</p> <p>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.</p> <p>Nx: Total number of comparisons to be taken into account before the handover decision is possible.</p>
<i>Related command(s):</i>	EHC, EHY, EHO
<i>Note:</i>	OPTIONAL (Intelligent Coverage Enhancement)

7.52 super reuse estimation method (METH)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	superReuseEstMethod
<i>Modification:</i>	Online
<i>Range:</i>	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)
<i>MML default:</i>	NONE
<i>Description:</i>	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).
<i>Related command(s):</i>	EHC, EHY, EHO
<i>Note:</i>	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.

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

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

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

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	superReuseGoodRxLevThreshold Px Nx
<i>Modification:</i>	Online
<i>Range:</i>	Rx level: -110..-47 (dBm) Px: 1..32 Nx: 1..32
<i>MML default:</i>	Rx level: -80 Px: 8 Nx: 10
<i>Description:</i>	<p>The parameter is used for comparing the downlink signal level for triggering a handover to the super-reuse TRX.</p> <p>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.</p> <p>Nx: Total number of comparisons to be taken into account before the handover decision is possible.</p>
<i>Related command(s):</i>	EHC, EHY, EHO
<i>Note:</i>	OPTIONAL (Intelligent Coverage Enhancement)

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

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

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

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	hoThresholdsInterferenceDL
<i>Modification:</i>	Online

<i>Range:</i>	Rx level: -110..-47 (dBm) Px: 1..32 Nx: 1..32
<i>MML default:</i>	Rx level: -85 Px: 1 Nx: 1
<i>Description:</i>	<p>The parameters compare the averaged values of interference downlink measurements for triggering the handover process.</p> <p>Px: Number of averages that have to be upper/lower than the threshold.</p> <p>Nx: Number of averages that have to be taken into account when making a handover decision.</p>
<i>Related command(s):</i>	EHC, EHI, EHO

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

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	hoThresholdsInterferenceUL
<i>Modification:</i>	Online
<i>Range:</i>	Rx level: -110..-47 (dBm) Px: 1..32 Nx: 1..32

<i>MML default:</i>	Rx level: -85 Px: 1 Nx: 1
<i>Description:</i>	<p>The parameters compare the averaged values of interference uplink measurements for triggering the handover process.</p> <p>Px: Number of averages that have to be upper/lower than the threshold.</p> <p>Nx: Number of averages that have to be taken into account when making a handover decision.</p>
<i>Related command(s):</i>	EHC, EHI, EHO

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

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	hoThresholdsLevDL
<i>Modification:</i>	Online
<i>Range:</i>	Rx level: -110..-47 (dBm) Px: 1..32 Nx: 1..32

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

7.59 threshold level uplink for rapid field drop (RPD)

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

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

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

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

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	hoThresholdsQualDL
<i>Modification:</i>	Online

<i>Range:</i>	Rx qual: 0..7 Px: 1..32 Nx: 1..32
<i>MML default:</i>	Rx qual: 4 (1.6%..3.2%) Px: 4 Nx: 6
<i>Description:</i>	<p>The parameters compare the averaged values of signal quality downlink measurements for triggering the handover process.</p> <p>Px: Number of averages that have to be upper/lower than the threshold.</p> <p>Nx: Number of averages that have to be taken into account when making a handover decision.</p>
<i>Related command(s):</i>	EHC, EHO, EHQ

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

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	hoThresholdsQualUL
<i>Modification:</i>	Online
<i>Range:</i>	Rx qual: 0..7 Px: 1..32 Nx: 1..32

<i>MML default:</i>	Rx qual: 4 (1.6%..3.2%)
	Px: 4
	Nx: 6
<i>Description:</i>	<p>The parameters compare the averaged values of signal quality uplink measurements for triggering the handover process.</p> <p>Px: Number of averages that have to be upper/lower than the threshold.</p> <p>Nx: Number of averages that have to be taken into account when making a handover decision.</p>
<i>Related command(s):</i>	EHC, EHO, EHQ

7.63 upper speed limit (USL)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	upperSpeedLimit
<i>Modification:</i>	Online
<i>Range:</i>	0..255
<i>MML default:</i>	0
<i>Description:</i>	<p>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.</p>
<i>Related command(s):</i>	EHC, EHP, EHO
<i>Note:</i>	OPTIONAL (Fast moving MS handling in macro cell)

8

Power control (POC)

8.1 ALA enabled (AENA)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	enableALA
<i>Modification:</i>	Online
<i>Range:</i>	Y (automatic link adaptation is enabled) N (automatic link adaptation is disabled)
<i>MML default:</i>	N
<i>Description:</i>	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.
<i>Related command(s):</i>	EUC, EUG, EUO

8.2 binary representation ALPHA (ALPHA)

<i>GSM reference:</i>	ETS 300 940 (GSM 04.08)
<i>Q3 name:</i>	alpha
<i>Modification:</i>	When the BTS is locked or the GPRS is disabled

<i>Range:</i>	0...10 according to the following principle: 0: $\alpha=0.0$ 1: $\alpha=0.1$ 2: $\alpha=0.2$... 10: $\alpha=1.0$
<i>MML default:</i>	7 (GSM 900) 8 (GSM 1800 and GSM 1900)
<i>Description:</i>	With this parameter you describe the binary representation of the parameter α .
<i>Related command(s):</i>	EUM, EUO
<i>Note:</i>	OPTIONAL (Gb Interface functionality)

8.3 binary representation TAU (GAMMA)

<i>GSM reference:</i>	ETS 300 940 (GSM 04.08)
<i>Q3 name:</i>	gamma
<i>Modification:</i>	When the BTS is locked or the GPRS is disabled
<i>Range:</i>	0...62
<i>MML default:</i>	17 (GSM 900) 18 (GSM 1800 and GSM 1900)
<i>Description:</i>	With this parameter you describe the binary representation of the parameter τ_{ch} for MS output power control.
<i>Related command(s):</i>	EUM, EUO
<i>Note:</i>	OPTIONAL (Gb Interface functionality)

8.4 bs tx pwr max (PMAX)

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

8.5 bs tx pwr min (PMIN)

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

8.6 idle mode signal strength filter period (IFP)

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

8.7 min int between ALA (AMIN)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	minIntBetweenALA
<i>Modification:</i>	Online
<i>Range:</i>	0..30 (seconds)
<i>MML default:</i>	10
<i>Description:</i>	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.
<i>Related command(s):</i>	EUC, EUG, EUO

8.8 PBCCH power reduction value (PRV)

<i>GSM reference:</i>	ETS 300 940 (GSM 04.08)
<i>Q3 name:</i>	pb
<i>Modification:</i>	Online
<i>Range:</i>	-30 - 0 dBm (step size 2dBm)
<i>MML default:</i>	-2
<i>Description:</i>	With this parameter you control the power reduction value used by the BTS on PBCCH blocks, relative to the output power used on BCCH.
<i>Related command(s):</i>	EUM, EUO
<i>Note:</i>	OPTIONAL (Gb Interface functionality)

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

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	pcAveragingLevDL
<i>Modification:</i>	Online
<i>Range:</i>	Window size: 1..32 Weighting: 1..3
<i>MML default:</i>	Window size: 4 Weighting: 1
<i>Description:</i>	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.
<i>Related command(s):</i>	EUA, EUC, EUO

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

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	pcAveragingLevUL
<i>Modification:</i>	Online
<i>Range:</i>	Window size: 1..32 Weighting: 1..3
<i>MML default:</i>	Window size: 4 Weighting: 1
<i>Description:</i>	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.
<i>Related command(s):</i>	EUA, EUC, EUO

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

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	pcAveragingQualDL
<i>Modification:</i>	Online
<i>Range:</i>	Window size: 1..32 Weighting: 1..3

<i>MML default:</i>	Window size: 1
	Weighting: 1
<i>Description:</i>	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.
<i>Related command(s):</i>	EUA, EUC, EUO

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

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	pcAveragingQualUL
<i>Modification:</i>	Online
<i>Range:</i>	Window size: 1..32
	Weighting: 1..3
<i>MML default:</i>	Window size: 1
	Weighting: 1
<i>Description:</i>	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.
<i>Related command(s):</i>	EUA, EUC, EUO

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

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

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

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

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

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

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

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

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

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	pcLowerThresholdsQual144
<i>Modification:</i>	Online
<i>Range:</i>	Rx qual: 0..7 Px: 1..32 Nx: 1..32
<i>MML default:</i>	Rx qual: 3 (0.8%..1.6%) Px: 3 Nx: 4
<i>Description:</i>	<p>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.</p> <p>Rx qual: Threshold level for power increase.</p> <p>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.</p> <p>Nx: Number of averages taken into account before a power increase decision is possible.</p>
<i>Related command(s):</i>	EUC, EUQ, EUO

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

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	pcUpperThresholdsLevDL
<i>Modification:</i>	Online
<i>Range:</i>	Rx level: -110..-47 (dBm) Px: 1..32 Nx: 1..32
<i>MML default:</i>	Rx level: -70 Px: 1 Nx: 1
<i>Description:</i>	<p>The parameters compare the averaged values of signal strength downlink measurements for triggering the power control process.</p> <p>Rx level: Threshold level for a downlink power reduction.</p> <p>Px: Number of averages that have to be lower than the threshold before making a power reduction decision.</p> <p>Nx: The total number of averages that have to be taken into account before the power reduction decision.</p>
<i>Related command(s):</i>	EUC, EUO, EUS

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

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	pcUpperThresholdsLevUL
<i>Modification:</i>	Online
<i>Range:</i>	Rx level: -110..-47 (dBm) Px: 1..32 Nx: 1..32
<i>MML default:</i>	Rx level: -70 Px: 1 Nx: 1
<i>Description:</i>	<p>The parameters compare the averaged values of signal strength uplink measurements for triggering the power control process.</p> <p>Rx level: Threshold level for an uplink power reduction.</p> <p>Px: Number of averages that have to be lower than the threshold before making a power reduction decision.</p> <p>Nx: The total number of averages that have to be taken into account before the power reduction decision.</p>
<i>Related command(s):</i>	EUC, EUO, EUS

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

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

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

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

8.22 power control interval (INT)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	powerControllInterval
<i>Modification:</i>	Online

<i>Range:</i>	0..31 (s)
<i>MML default:</i>	2
<i>Description:</i>	With this parameter you define the minimum interval between the changes in the radio frequency power level.
<i>Related command(s):</i>	EUC, EUG, EUO

8.23 power ctrl enabled (PENA)

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

8.24 power decr limit band 0 (PD0)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	pwrDecrLimitBand0
<i>Modification:</i>	Online
<i>Range:</i>	0..38 (dB) with a step size of 2 dB

<i>MML default:</i>	38
<i>Description:</i>	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%.
<i>Related command(s):</i>	EUC, EUG, EUO

8.25 power decr limit band 1 (PD1)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	pwrDecrLimitBand1
<i>Modification:</i>	Online
<i>Range:</i>	0..38 (dB) with a step size of 2 dB
<i>MML default:</i>	38
<i>Description:</i>	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%.
<i>Related command(s):</i>	EUC, EUG, EUO

8.26 power decr limit band 2 (PD2)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	pwrDecrLimitBand2
<i>Modification:</i>	Online
<i>Range:</i>	0..38 (dB) with a step size of 2 dB

<i>MML default:</i>	38
<i>Description:</i>	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%.
<i>Related command(s):</i>	EUC, EUG, EUO

8.27 power decr qual factor (PDF)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	powerDecrQualFactor
<i>Modification:</i>	Online
<i>Range:</i>	0 (disabled) 1 (enabled)
<i>MML default:</i>	1
<i>Description:</i>	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.
<i>Related command(s):</i>	EUC, EUG, EUO

8.28 power incr step size (INC)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	powerIncrStepsize
<i>Modification:</i>	Online

<i>Range:</i>	2, 4 or 6 (dB)
<i>MML default:</i>	4
<i>Description:</i>	With this parameter you define the step size for increasing the transmission power of the mobile station.
<i>Related command(s):</i>	EUC, EUG, EUO

8.29 power limit ALA (ALIM)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	powerLimitALA
<i>Modification:</i>	Online
<i>Range:</i>	0..30 (dB) with step size of 2 dB
<i>MML default:</i>	6
<i>Description:</i>	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.
<i>Related command(s):</i>	EUC, EUG, EUO

8.30 power red step size (RED)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	powerRedStepSize
<i>Modification:</i>	Online
<i>Range:</i>	2 or 4 (dB)

<i>MML default:</i>	2
<i>Description:</i>	With this parameter you define the step size for reducing the transmission power of the mobile station.
<i>Related command(s):</i>	EUC, EUG, EUO

8.31 transfer mode signal strength filter period (TFP)

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

9

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

9.1 frequency

<i>GSM reference:</i>	I-ETS 300 034-1 (GSM 05.08)
<i>Q3 name:</i>	bCCHAllocationList
<i>Modification:</i>	Online
<i>Range:</i>	GSM: 1..124 and 975..1023, 0 GSM 1800: 512..885 GSM 1900: 512..810 MULTI: 1.. 124, 512..885, 975..1023 , 0
<i>MML default:</i>	-
<i>Description:</i>	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.
<i>Related command(s):</i>	EBC, EBM, EBO

9.2 identification of BCCH frequency list

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

9.3 type of BCCH frequency list

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	frequencyBandInUse
<i>Modification:</i>	Read only
<i>Range:</i>	GSM, DCS, DCS19, MULTI
<i>MML default:</i>	-
<i>Description:</i>	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, GSM 1800, GSM 1900, or MULTI.
<i>Related command(s):</i>	EBC, EBO

10 Mobile allocation frequency list (MA)

10.1 frequency

<i>GSM reference:</i>	I-ETS 300 022-1 (GSM 04.08) I-ETS 300 030 (GSM 05.02)
<i>Q3 name:</i>	mobileAllocationList
<i>Modification:</i>	When BTS is locked, if used in a RF hopping BTS
<i>Range:</i>	GSM: 1..124 and 975..1023, 0 GSM 1800: 512..885 GSM 1900: 512..810
<i>MML default:</i>	-
<i>Description:</i>	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.
<i>Related command(s):</i>	EBE, EBT, EBI
<i>Note:</i>	BCCH frequency must not be included in the list.

10.2 identification of mobile allocation frequency list

<i>GSM reference:</i>	I-ETS 300 022-1 (GSM 04.08) I-ETS 300 030 (GSM 05.02)
<i>Q3 name:</i>	mobileAllocation-ID
<i>Modification:</i>	Read only
<i>Range:</i>	1..128
<i>MML default:</i>	-
<i>Description:</i>	With this parameter you identify the mobile allocation frequency list.
<i>Related command(s):</i>	EBE, EBR, EBT, EBI

10.3 type of mobile allocation frequency list

<i>GSM reference:</i>	I-ETS 300 022-1 (GSM 04.08) I-ETS 300 030 (GSM 05.02)
<i>Q3 name:</i>	frequencyBandInUse
<i>Modification:</i>	Read only
<i>Range:</i>	GSM, DCS, DCS19
<i>MML default:</i>	-
<i>Description:</i>	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, GSM 1800 or GSM 1900.
<i>Related command(s):</i>	EBE, EBI

11

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

11.1 location area code (LAC)

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

11.2 mobile country code (MCC)

<i>GSM reference:</i>	ETS 301 344 (GSM 03.60)
<i>Q3 name:</i>	routingAreald
<i>Modification:</i>	Read only
<i>Range:</i>	0...999
<i>MML default:</i>	—

<i>Description:</i>	With this parameter you identify the mobile country code number.
<i>Related command(s):</i>	EBF, EBG, EBH, EBP
<i>Note:</i>	Routing Area Identification (RAI = MCC + MNC + LAC + RAC) is used for identifying GPRS cells.

11.3 mobile network code (MNC)

<i>GSM reference:</i>	ETS 301 344 (GSM 03.60)
<i>Q3 name:</i>	routingAreald
<i>Modification:</i>	Read only
<i>Range:</i>	0...99 0...999 OPTIONAL (Three Digit MNC)
<i>MML default:</i>	—
<i>Description:</i>	With this parameter you identify the mobile network code number.
<i>Related command(s):</i>	EBF, EBG, EBH, EBP
<i>Note:</i>	Routing Area Identification (RAI = MCC + MNC + LAC + RAC) is used for identifying GPRS cells.

11.4 network service entity identifier (NSEI)

<i>GSM reference:</i>	TS 101 299 (GSM 08.16)
<i>Q3 name:</i>	nseiList
<i>Modification:</i>	When no BTS uses the NSEI
<i>Range:</i>	0...65535

<i>MML default:</i>	–
<i>Description:</i>	With this parameter you define the network service entity identifiers of the routing area. The maximum number of network service entities in a routing area is 16.
<i>Related command(s):</i>	EBF, EBH, EBP

11.5 routing area code (RAC)

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

12

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

12.1 network service entity identifier (NSEI)

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

13

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

13.1 bearer channel identification

<i>GSM Reference:</i>	TS 101 298 (GSM 08.14)
<i>Q3 Name:</i>	frBearerChannelId
<i>Modification:</i>	Read only
<i>Range:</i>	0..63
<i>MML Default:</i>	-
<i>Description:</i>	With this parameter you identify the bearer channel with a decimal number.
<i>Related command(s):</i>	FWC

13.2 bearer channel name

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	frBearerChannelName
<i>Modification:</i>	Read only
<i>Range:</i>	String of up to 10 characters

<i>MML default:</i>	-
<i>Description:</i>	With this parameter you identify the bearer channel with a name.
<i>Related command(s):</i>	FWC

13.3 committed information rate (CIR)

<i>GSM Reference:</i>	TS 101 298 (GSM 08.14)
<i>Q3 Name:</i>	committedInfoRate
<i>Modification:</i>	When NS-VC is locked
<i>Range:</i>	ETSI: 16..1984 (kbit/s, steps of 16 kbit/s) ANSI: 16..1472 (kbit/s, steps of 16 kbit/s)
<i>MML Default:</i>	-
<i>Description:</i>	With this parameter you identify the committed information rate.
<i>Related command(s):</i>	FWC

13.4 data link connection identifier

<i>GSM reference:</i>	TS 101 298 (GSM 08.14)
<i>Q3 name:</i>	dataLinkConnectionId
<i>Modification:</i>	Read only
<i>Range:</i>	16..991
<i>MML default:</i>	-
<i>Description:</i>	With this parameter you define the data link connection identifier.
<i>Related command(s):</i>	FWC

13.5 network service virtual connection identifier (NSVCI)

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

13.6 network service virtual connection name (NAME)

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

14

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

14.1 decision threshold values (T1-T16)

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

14.2 random value upper limit

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	randomValueLimit
<i>Modification:</i>	Online
<i>Range:</i>	0..65535

<i>MML default:</i>	65535
<i>Description:</i>	Upper limit for the random value that is used in the Trunk Reservation algorithm.
<i>Related command(s):</i>	ETC, ETM, ETO

14.3 table identification (TBL)

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

15 Transceiver (TRX)

15.1 administrative state

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

15.2 autoconfigure (AC)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	autoConfig
<i>Modification:</i>	Read only
<i>Range:</i>	Y/N
<i>MML default:</i>	N

<i>Description:</i>	With this parameter you define whether the TRX is created to be autoconfigured.
<i>Related command(s):</i>	ERC
<i>Note:</i>	OPTIONAL (Abis autoconfiguration in use) The parameter is only allowed for Nokia MetroSite, Nokia InSite and Nokia UltraSite.

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

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	backgroundDBAttributes: trxIntfCell
<i>Modification:</i>	Online
<i>Range:</i>	0..65535
<i>MML default:</i>	-
<i>Description:</i>	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.
<i>Related command(s):</i>	ERY, ERO
<i>Note:</i>	OPTIONAL (Intelligent Underlay Overlay)

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

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	backgroundDBAttributes: trxIntfCell
<i>Modification:</i>	Online
<i>Range:</i>	0 ... measured interference level 1 ... interference level estimate

<i>MML default:</i>	-
<i>Description:</i>	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.
<i>Related command(s):</i>	ERY, ERO
<i>Note:</i>	OPTIONAL (Intelligent Underlay Overlay)

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

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	backgroundDBAttributes: trxIntfCell
<i>Modification:</i>	Online
<i>Range:</i>	0..10
	ND (not defined)
<i>MML default:</i>	-
<i>Description:</i>	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.
<i>Related command(s):</i>	ERY, ERO
<i>Note:</i>	OPTIONAL (Intelligent Underlay Overlay)

15.6 background direct access level (BDAL)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	backgroundDBAttributes: directAccessLevel
<i>Modification:</i>	Online
<i>Range:</i>	-109...-47
	N (disabled)
	ND (not defined)
<i>MML default:</i>	-
<i>Description:</i>	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.
<i>Related command(s):</i>	ERM, ERO
<i>Note:</i>	OPTIONAL (Intelligent Underlay Overlay OR Intelligent Coverage Enhancement)

15.7 background frequency (BFREQ)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	backgroundDBAttributes: initialFrequency
<i>Modification:</i>	Online
<i>Range:</i>	GSM: 1..124, 975..1023, 0 and ND (not defined)
	GSM 1800: 512..885 and ND
	GSM 1900: 512..810 and ND

<i>MML default:</i>	-
<i>Description:</i>	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.
<i>Related command(s):</i>	ERM, ERO

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

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	backgroundDBAttributes: trxIntfCell
<i>Modification:</i>	Online
<i>Range:</i>	-63..63 (dB)
<i>MML default:</i>	-
<i>Description:</i>	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.
<i>Related command(s):</i>	ERY, ERO
<i>Note:</i>	OPTIONAL (Intelligent Underlay Overlay)

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

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	backgroundDBAttributes: trxIntfCell
<i>Modification:</i>	Online
<i>Range:</i>	0..65535
<i>MML default:</i>	-

<i>Description:</i>	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.
<i>Related command(s):</i>	ERY, ERO
<i>Note:</i>	OPTIONAL (Intelligent Underlay Overlay)

15.10 background optimum RX level uplink (BLEV)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	backgroundDBAttributes: optimumRxLevUL
<i>Modification:</i>	Online
<i>Range:</i>	-109..-47 (dBm)
	N (not used)
	ND (not defined)
<i>MML default:</i>	-
<i>Description:</i>	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.
<i>Related command(s):</i>	ERM, ERO

15.11 background training sequence code (BTSC)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	backgroundDBAttributes: tsc
<i>Modification:</i>	Online

<i>Range:</i>	0..7
	ND (not defined)
<i>MML default:</i>	-
<i>Description:</i>	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.
<i>Related command(s):</i>	ERM, ERO

15.12 background TRX frequency type (BFRT)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	backgroundDBAttributes: trxFrequencyType
<i>Modification:</i>	Online
<i>Range:</i>	0..16, ND (not defined)
<i>MML default:</i>	-
<i>Description:</i>	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.
<i>Related command(s):</i>	ERM, ERO
<i>Note:</i>	OPTIONAL (Intelligent Underlay Overlay OR Intelligent Coverage Enhancement)

15.13 binary outputs (ON/OFF)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	bcfOutputs
<i>Modification:</i>	Online

<i>Range:</i>	4 ON/OFF-type outputs
<i>MML default:</i>	all outputs OFF
<i>Description:</i>	With this parameter you indicate which binary outputs are in the ON and OFF state. The outputs are identified by a number.
<i>Related command(s):</i>	ERT, ERO
<i>Note:</i>	The parameter exists only for Nokia PrimeSite.

15.14 bit rate (BR)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	bitRate
<i>Modification:</i>	Read only
<i>Range:</i>	8, 16, 32, 64 (kbps)
<i>MML default:</i>	-
<i>Description:</i>	With this parameter you define the bit rate of the D-channel telecom signalling link of the TRX.
<i>Related command(s):</i>	ERC
<i>Note:</i>	OPTIONAL (Abis autoconfiguration in use) The parameter is only allowed for Nokia MetroSite, Nokia InSite and Nokia UltraSite.

15.15 cell identification of interfering cell 1-10 (CI1-CI10)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	trxIntfCell
<i>Modification:</i>	Online
<i>Range:</i>	0..65535

<i>MML default:</i>	-
<i>Description:</i>	With these parameters you define which interfering cell you want to handle.
<i>Related command(s):</i>	ERY, ERO
<i>Note:</i>	OPTIONAL (Intelligent Underlay Overlay)

15.16 C/I estimation type 1-10 (T1-T10)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	-
<i>Modification:</i>	Online
<i>Range:</i>	0 (measured interference level) 1 (interference level estimate)
<i>MML default:</i>	0
<i>Description:</i>	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.
<i>Related command(s):</i>	ERY, ERO
<i>Note:</i>	OPTIONAL (Intelligent Underlay Overlay)

15.17 C/I estimation weight 1-10 (W1-W10)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	-
<i>Modification:</i>	Online

<i>Range:</i>	0..10
	Value 10 is the highest weighting
<i>MML default:</i>	1
<i>Description:</i>	With these parameters you indicate the weighting coefficient of the interfering cell. The value 0 detaches the corresponding interfering cell from the transceiver.
<i>Related command(s):</i>	ERY, ERO
<i>Note:</i>	OPTIONAL (Intelligent Underlay Overlay)

15.18 combi link (CL)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	combinedSignalling
<i>Modification:</i>	Read only
<i>Range:</i>	Y/N
<i>MML default:</i>	N
<i>Description:</i>	With this parameter you define whether the D-channel O&M and telecom signalling links are combined.
<i>Related command(s):</i>	ERC
<i>Note:</i>	OPTIONAL (Abis autoconfiguration in use) The parameter is only allowed for Nokia MetroSite and Nokia InSite.

15.19 D-channel O & M link set name (ONAME)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	-
<i>Modification:</i>	Online
<i>Range:</i>	String of up to 5 characters ('A'..'Z','0'..'9'). The first character must be a letter.
<i>MML default:</i>	-
<i>Description:</i>	With this parameter you indicate the D-channel O&M link set name of the TRX.
<i>Related command(s):</i>	ERC, ERM, ERO, EEI
<i>Note:</i>	The parameter exists only for Nokia PrimeSite. Changing the parameter causes a temporary break in O&M signalling.

15.20 D-channel O & M link set number (ONBR)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	omLapdLinkNumber
<i>Modification:</i>	Online
<i>Range:</i>	0..65535
<i>MML default:</i>	-
<i>Description:</i>	With this parameter you indicate the D-channel O&M link set number of the TRX.
<i>Related command(s):</i>	ERC, ERM, ERO
<i>Note:</i>	The parameter exists only for Nokia PrimeSite. Changing the parameter causes a temporary break in O&M signalling.

15.21 D-channel telecom link set name (DNAME)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	userLabel
<i>Modification:</i>	Read only
<i>Range:</i>	String of up to 5 characters ('A'..'Z','0'..'9'). The first character must be a name.
<i>MML default:</i>	-
<i>Description:</i>	With this parameter you indicate the D-channel telecom link set name of the TRX's signalling link.
<i>Related command(s):</i>	ERC, ERO

15.22 D-channel telecom link set number (DNBR)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	lapdLinkNumber
<i>Modification:</i>	Read only
<i>Range:</i>	0..65535
<i>MML default:</i>	-
<i>Description:</i>	With this parameter you indicate the D-channel telecom link set number of the TRX's signalling link.
<i>Related command(s):</i>	ERC, ERO

15.23 direct access level (DAL)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	directAccessLevel
<i>Modification:</i>	Online
<i>Range:</i>	-109...-47
	N (disabled)
<i>MML default:</i>	N
<i>Description:</i>	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.
<i>Related command(s):</i>	ERC, ERM, ERO
<i>Note:</i>	OPTIONAL (Intelligent Underlay Overlay OR Intelligent Coverage Enhancement)

15.24 E-TRX type (ETRX)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	eTrxInd
<i>Modification:</i>	When TRX is locked
<i>Range:</i>	N (the TRX is a normal TRX)
	E (the TRX is an extended TRX)
<i>MML default:</i>	N

<i>Description:</i>	With this parameter you define whether the TRX is working as an extended TRX (E-TRX) or a normal TRX (N-TRX).
<i>Related command(s):</i>	ERC, ERM, ERO, EEI
<i>Note:</i>	OPTIONAL (Extended cell radius) Only site types Nokia Talk-family and Nokia UltraSite can have the value E.

15.25 frequency (FREQ)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	initialFrequency
<i>Modification:</i>	When TRX is locked
<i>Range:</i>	GSM: 1..124 and 975..1023, 0 GSM 1800: 512..885 GSM 1900: 512..810
<i>MML default:</i>	-
<i>Description:</i>	With this parameter you assign the ARFCN (absolute radio frequency number) to the transceiver.
<i>Related command(s):</i>	ERC, ERM, ERO, EEI
<i>Note:</i>	Check adjacent cell parameters if the TRX is a BCCH TRX. Frequency must be unique within the BTS.

15.26 GPRS enabled TRX (GTRX)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	GPRSEnabledTRX
<i>Modification:</i>	Online when GPRS is disabled in the cell, otherwise when BTS is locked
<i>Range:</i>	Y/N
<i>MML default:</i>	Y
<i>Description:</i>	With this parameter you define whether the GPRS capability is enabled or disabled for the current TRX.
<i>Related command(s):</i>	ERM, ERO
<i>Note:</i>	OPTIONAL (Gb Interface functionality)

15.27 level adjustment 1-10 (L1-L10)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	-
<i>Modification:</i>	Online
<i>Range:</i>	-63..63 (dB)
<i>MML default:</i>	0
<i>Description:</i>	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.
<i>Related command(s):</i>	ERY, ERO
<i>Note:</i>	OPTIONAL (Intelligent Underlay Overlay)

15.28 location area code of interfering cell 1-10 (LAC1-LAC10)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	-
<i>Modification:</i>	Online
<i>Range:</i>	0..65535
<i>MML default:</i>	-
<i>Description:</i>	With these parameters you define in which area the interfering cell in question is located.
<i>Related command(s):</i>	ERY, ERO
<i>Note:</i>	OPTIONAL (Intelligent Underlay Overlay)

15.29 O & M link location (OLOC)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	omuLinkLocation
<i>Modification:</i>	When TRX is locked.
<i>Range:</i>	Nokia Talk-family: 0..7, N Nokia PrimeSite: 0..7 Nokia MetroSite: 0..7, N
<i>MML default:</i>	Nokia Talk-family: N Nokia PrimeSite: 0 Nokia MetroSite: N

<i>Description:</i>	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.
<i>Related command(s):</i>	ERC, ERM, ERO
<i>Note:</i>	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.

15.30 optimum RX level downlink (LEVD)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	optimumRxLevDL
<i>Modification:</i>	Online
<i>Range:</i>	-109..-47 (dBm) N (not used)
<i>MML default:</i>	N
<i>Description:</i>	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.
<i>Related command(s):</i>	ERC, ERM, ERO

15.31 optimum RX level uplink (LEV)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	optimumRxLevUL
<i>Modification:</i>	Online
<i>Range:</i>	-109..-47 (dBm)
	N (not used)
<i>MML default:</i>	N
<i>Description:</i>	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.
<i>Related command(s):</i>	ERC, ERM, ERO

15.32 preferred BCCH TRX (PREF)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	preferredBCCHMark
<i>Modification:</i>	Online
<i>Range:</i>	N ... The TRX is a normal TRX
	P ... The TRX is a preferred TRX
<i>MML default:</i>	N
<i>Description:</i>	With this parameter you mark one or more TRXs as preferred TRXs where the BCCH is reconfigured, if possible.
<i>Related command(s):</i>	ERC, ERM, ERO, EEI

15.33 subslots for signalling (SIGN)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	subslotsForSignalling
<i>Modification:</i>	Read-only
<i>Range:</i>	0..4
<i>MML default:</i>	0
<i>Description:</i>	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.
<i>Related command(s):</i>	ERC, ERO

15.34 training sequence code (TSC)

<i>GSM reference:</i>	I-ETS 300 022-1 (GSM 04.08)
	I-ETS 300 030 (GSM 05.02)
<i>Q3 name:</i>	tsc
<i>Modification:</i>	When TRX is locked
<i>Range:</i>	0..7
<i>MML default:</i>	-
<i>Description:</i>	With this parameter you define the the training sequence code (TSC) of a carrier. The TSC parameter must be equal to the BCC (<i>Base Transceiver Station Colour Code</i>) parameter of the BTS.
<i>Related command(s):</i>	ERC, ERM, ERO

15.35 transceiver identification (TRX)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	transceiver-ID
<i>Modification:</i>	Read only
<i>Range:</i>	1..16
<i>MML default:</i>	-
<i>Description:</i>	With this parameter you identify the transceiver. The value you enter for this parameter must be unique for each transceiver within one BCF.
<i>Related command(s):</i>	ERC, ERD, ERO

15.36 TRX frequency type (FRT)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	trxFrequencyType
<i>Modification:</i>	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.
<i>Range:</i>	0..16
<i>MML default:</i>	0 (regular)
<i>Description:</i>	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.
<i>Related command(s):</i>	ERC, ERM, ERO, EEI
<i>Note:</i>	OPTIONAL (Intelligent Underlay Overlay OR Intelligent Coverage Enhancement)

15.37 TRX half rate support (HRS)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	halfRateSupport
<i>Modification:</i>	Online
<i>Range:</i>	Y/N
<i>MML default:</i>	Y
<i>Description:</i>	With this parameter you define whether the TRX hardware supports half rate. The parameter is a flag for statistics.
<i>Related command(s):</i>	ERC, ERM, ERO
<i>Note:</i>	OPTIONAL (Half Rate)

15.38 TRX identification with frequency (IFREQ)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	-
<i>Modification:</i>	Read only
<i>Range:</i>	GSM: 1..124 and 975..1023, 0 GSM 1800: 512..885 GSM 1900: 512..810
<i>MML default:</i>	-
<i>Description:</i>	With this parameter you identify the transceiver with its frequency number.
<i>Related command(s):</i>	ERD, ERM, ERY, ERO, ERS

15.39 TRX link location (TLOC)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	trxLinkLocation
<i>Modification:</i>	When TRX is locked
<i>Range:</i>	0..7 (bit)
<i>MML default:</i>	0
<i>Description:</i>	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.
<i>Related command(s):</i>	ERC, ERM, ERO
<i>Note:</i>	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.

15.40 TRX telephone number (TEL)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	trxTelephoneNumber
<i>Modification:</i>	When TRX is locked
<i>Range:</i>	0000..99999999999999999999, from 4 to 20 digits
<i>MML default:</i>	0000
<i>Description:</i>	With this parameter you define the telephone number of the ISDN TRX.
<i>Related command(s):</i>	ERC, ERM, ERO
<i>Note:</i>	OPTIONAL (ISDN Abis)

15.41 TRX transmission type (TRA)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	isdnTrx
<i>Modification:</i>	Read only
<i>Range:</i>	NORM (the TRX transmission type is normal) ISDN (the TRX transmission type is ISDN)
<i>MML default:</i>	NORM
<i>Description:</i>	With this parameter you define whether the TRX is an ISDN TRX or not.
<i>Related command(s):</i>	ERC, ERO, EEI
<i>Note:</i>	OPTIONAL (ISDN Abis) Value ISDN is not possible for Nokia 2nd generation and Nokia InSite base stations.

15.42 TRX type (FLO)

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	floatingMode
<i>Modification:</i>	Read only
<i>Range:</i>	F (TRX is a floating TRX) N (TRX is a normal TRX)
<i>MML default:</i>	N

<i>Description:</i>	With this parameter you define whether the TRX is a floating TRX.
<i>Related command(s):</i>	ERC, ERO, EEI
<i>Note:</i>	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.

16 Radio timeslot (RTSL)

16.1 Abis speech circuit

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	terrTrafChannel
<i>Modification:</i>	Read only
<i>Range:</i>	PCM: 1..255 TSL: in ETSI 1..30, in ANSI 1..23 SUBSLOT: 0..3
<i>MML default:</i>	-
<i>Description:</i>	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.
<i>Related command(s):</i>	ERC, ERO

16.2 administrative state

<i>GSM reference:</i>	No ref.
<i>Q3 name:</i>	administrativeState
<i>Modification:</i>	Online/Offline

<i>Range:</i>	U (unlocked)
	L (locked)
<i>MML default:</i>	U
<i>Description:</i>	With this parameter you identify the state into which the administrative state of the object will be changed.
<i>Related command(s):</i>	ERO, ERS

16.3 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

<i>GSM reference:</i>	I-ETS 300 030 (GSM 05.02)
<i>Q3 name:</i>	channelType
<i>Modification:</i>	When TRX is locked
<i>Range:</i>	TCHF, TCHH, TCHD, ERACH, NOTUSED, SDCCH, MBCCH, MBCCHC, MBCCB, SDCCB
<i>MML default:</i>	TCHF
<i>Description:</i>	With this parameter you define the logical channel combination that has to be mapped onto the basic physical channel.
<i>Related command(s):</i>	ERC, ERM, ERO, EEI

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Related command list

17.1 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>
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
```

17.2 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
```

17.3 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>
Q: ..... CHECK IUO INTERFERING CELLS <option>
O: ..... OUTPUT BTS PARAMETERS
S: ..... CHANGE BTS ADMINISTRATIVE STATE
Z; ..... RETURN TO MAIN LEVEL
```

17.4 Adjacent Cell Handling commands (EA)

The commands of the command group are used for handling the 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
Z; ..... RETURN TO MAIN LEVEL
```

17.5 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>
O: ..... OUTPUT HANDOVER CONTROL PARAMETERS
Z; ..... RETURN TO MAIN LEVEL

```

17.6 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
O: ..... OUTPUT POWER CONTROL PARAMETERS
Z; ..... RETURN TO MAIN LEVEL

```

17.7 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
```

17.8 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 DATA
S: ..... CHANGE STATE OF NETWORK SERVICE VIRTUAL CONNECTION
O: ..... OUTPUT NETWORK SERVICE VIRTUAL CONNECTION DATA
Z: ..... RETURN TO MAIN LEVEL
```

17.9 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
```

17.10 Transceiver Handling commands (ER)

The commands of the command group are used for handling the transceiver and radio time slot parameters in the BSDATA.

```
TRANSCIVER HANDLING COMMANDS
? ..... DISPLAY MENU
C: ..... CREATE TRANSCIVER
D: ..... DELETE TRANSCIVER
M: ..... MODIFY TRANSCIVER AND RADIO TIME SLOT PARAMETERS
T: ..... MODIFY TRANSCIVER BINARY OUTPUTS
Y: ..... MODIFY TRANSCIVER UNDERLAY-OVERLAY PARAMETERS <option>
O: ..... OUTPUT TRANSCIVER PARAMETERS
S: ..... CHANGE TRANSCIVER AND RADIO TIME SLOT STATE
Z: ..... RETURN TO MAIN LEVEL
```

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