Technical Document - Confidential

GSM PROTOCOL STACK

TEST SPECIFICATION

ALR

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Table of Contents

1.1 References 8
1.2 Abbreviations 11
1.3 Terms 12

2 Overview 12

3 Parameters 13

4 TEST CASES 141

4.1 Configuration 141
4.1.1 ALR000: Filter and Routings (GSM 900) 141
4.1.2 ALR200: Filter and Routings (DCS 1800) 142
4.1.3 ALR400: Filter and Routings (PCS 1900) 143
4.1.4 ALR600: Filter and Routings (Dualband GSM 900 / DCS 1800) 144
4.1.5 ALR849: Filter and Routings (Dualband GSM 900 / E-GSM / DCS 1800) 146
4.2 Cell Selection (GSM 900) 147
4.2.1 ALR001: Initiation by RR, 4 channels available 147
4.2.2 ALR002: Initiation by RR, no channels available 149
4.2.3 ALR003: Find BCCH carrier, first channel 150
4.2.4 ALR004: Find BCCH carrier, first channel failed, then second channel 151
4.2.5 ALR005: Find BCCH carrier, all channels failed, then error indication 152
4.2.6 ALR006: Find BCCH carrier, second channel 154
4.2.7 ALR007: Read BCCH data 154
4.2.8 ALR008: Read failed BCCH data 156
4.2.9 ALR009: RR rejects BCCH carrier, try third channel 157
4.2.10 ALR010: RR rejects BCCH carrier, try fourth channel 158
4.2.11 ALR011: RR rejects BCCH carrier, no further channel available 160
4.2.12 ALR012: RR select second channel 160
4.2.13 ALR013: RR select first channel 162
4.2.14 ALR015: Re-Initiation of Cell Selection during measurements 164
4.2.15 ALR017: Re-Initiation of Cell Selection during BCCH reading 165
4.2.16 ALR044: Stop Idle Mode by Normal Cell Selection 167
4.2.17 ALR018: ALR008 - Engineering mode 168
4.3 PLMN Selection(GSM 900) 168
4.3.1 ALR084: Init Ncell data, 4 channels available 168
4.3.2 ALR085: Initiation by RR, 4 channels available 173
4.3.3 ALR086: Initiation by RR, no channels available 174
4.3.4 ALR088: Find BCCH carrier, second channel 176
4.3.5 ALR089: Find BCCH carrier, all channels failed, then error indication 176
4.3.6 ALR090: Find BCCH carrier, second channel 178
4.3.7 ALR091: Read BCCH data 178
4.3.8 ALR093: RR rejects BCCH carrier, try third channel 180
4.3.9 ALR094: RR rejects BCCH carrier, try fourth channel 182
4.3.10 ALR095: RR rejects BCCH carrier, no further channel available 184
4.4 Cell Selection(DCS 1800) 184
4.4.1 ALR201: Initiation by RR, 4 channels available 184
4.4.2 ALR202: Initiation by RR, no channels available 185
4.4.3 ALR203: Find BCCH carrier, first channel 187
4.4.4 ALR204: Find BCCH carrier, first channel failed, then second channel 188
4.4.5 ALR205: Find BCCH carrier, all channels failed, then error indication 189
4.4.6 ALR206: Find BCCH carrier, second channel 190
4.4.7 ALR207: Read BCCH data 191
4.4.8 ALR208: Read failed BCCH data 193

4.4.9 ALR209: RR rejects BCCH carrier, try third channel 193
4.4.10 ALR210: RR rejects BCCH carrier, try fourth channel 195
4.4.11 ALR211: RR rejects BCCH carrier, no further channel available 196
4.4.12 ALR212: RR select second channel 197
4.4.13 ALR213: RR select first channel 198
4.4.14 ALR215: Re-Initiation of Cell Selection during measurements 200
4.4.15 ALR217: Re-Initiation of Cell Selection during BCCH reading 201
4.4.16 ALR244: Stop Idle Mode by Normal Cell Selection 203
4.5 Cell Selection (Dualband GSM 900 / DCS 1800) 204
4.5.1 ALR601: Initiation by RR, 8 channels available 204
4.5.2 ALR602: Initiation by RR, no channels available 205
4.5.3 ALR603: Find BCCH carrier, first channel 206
4.5.4 ALR604: Find BCCH carrier, first channel failed, then second channel 207
4.5.5 ALR605: Find BCCH carrier, all channels failed, then error indication 208
4.5.6 ALR606: Find BCCH carrier, second channel 211
4.5.7 ALR607: Read BCCH data 212
4.5.8 ALR608: Read failed BCCH data 214
4.5.9 ALR609: RR rejects BCCH carrier, try third channel 215
4.5.10 ALR610: RR rejects BCCH carrier, try fourth channel 216
4.5.11 ALR611: RR rejects BCCH carrier, no further channel available 218
4.5.12 ALR612: RR select second channel 218
4.5.13 ALR613: RR select first channel 220
4.5.14 ALR615: Re-Initiation of Cell Selection during measurements 221
4.5.15 ALR617: Re-Initiation of Cell Selection during BCCH reading 223
4.5.16 ALR644: Stop Idle Mode by Normal Cell Selection 224
4.6 Page Mode Change 225
4.6.1 ALR020: Initiation with Paging Reorganisation 225
4.6.2 ALR022: Page Mode Change, Paging Reorganisation 226
4.6.3 ALR023: Page Mode Change, Normal Paging to Extended Paging 227
4.6.4 ALR024: Page Mode Change, Normal Paging to Paging Reorganisation 227
4.6.5 ALR025: Page Mode Change, Back to Normal Paging 228
4.6.6 ALR026: Page Mode Change, Normal Paging 229
4.6.7 ALR027: Page Mode Change, Extended Paging a second time 229
4.6.8 ALR028: Page Mode Change, Extended Paging to Paging Reorganisation 230
4.6.9 ALR029: Page Mode Change, Extended Paging to Normal Paging 231
4.6.10 ALR700: Page Mode Change according 26.6.2.3.1 232
4.7 Paging 233
4.7.1 ALR070: Paging Req 1, Empty Paging Message 233
4.7.2 ALR071: Paging Req 1, IMSI / TMSI for MS 234
4.7.3 ALR072: Paging Req 1, Not for MS 235
4.7.4 ALR073: Paging Req 1, Short IMSI / TMSI for MS 235
4.7.5 ALR074: Paging Req 2, Empty Paging Message 237
4.7.6 ALR075: Paging Req 2, TMSI for MS (Mobile Identity 1 or 2) 237
4.7.7 ALR076: Paging Req 2, Not for MS 239
4.7.8 ALR077: Paging Req 2, IMSI / TMSI for MS (Mobile Identity 3) 239
4.7.9 ALR078: Paging Req 2, Short IMSI / TMSI for MS (Mobile Identity 3) 240
4.7.10 ALR079: Paging Req 3, Empty Paging Message 242
4.7.11 ALR080: Paging Req 3, TMSI for MS 242
4.7.12 ALR081: Paging Req 3, Not for MS 244
4.8 Measurement Reporting 244
4.8.1 ALR030: Measurement Reporting, Configuration 244
4.8.2 ALR031: Measurement Reporting, BS_PA_MFRMS = 2 246
4.8.3 ALR032: Measurement Reporting, BS_PA_MFRMS = 3 249
4.8.4 ALR033: Measurement Reporting, BS_PA_MFRMS = 4 252
4.8.5 ALR034: Measurement Reporting, BS_PA_MFRMS = 5 255
4.8.6 ALR035: Measurement Reporting, BS_PA_MFRMS = 6 257
4.8.7 ALR036: Measurement Reporting, BS_PA_MFRMS = 7 258

4.8.8 ALR037: Measurement Reporting, BS_PA_MFRMS = 8 260
4.8.9 ALR038: Measurement Reporting, BS_PA_MFRMS = 9 262
4.9 BCCH Reading 264
4.9.1 ALR039: BCCH Reading, BS_PA_MFRMS = 5 264
4.9.2 ALR040: BCCH Reading, BS_PA_MFRMS = 7 269
4.9.3 ALR041: BCCH Reading, BS_PA_MFRMS = 9 272
4.9.4 ALR082: BCCH Reading, Changed Sys Infos 276
4.10 Connection Establishment 281
4.10.1 ALR055: Start of Sending Channel Request Messages (GSM 900) 281
4.10.2 ALR056: Immediate Assignment for the Mobile Station 282
4.10.3 ALR057: Immediate Assignment Reject for the Mobile Station 284
4.10.4 ALR058: T3126 Expiry, Back to Idle Mode 286
4.11 Handover & Assignment 287
4.11.1 ALR150: Non-synchronized Handover 287
4.11.2 ALR151: FTA 26.6.13.3 288
4.11.3 ALR152: FTA 26.6.13.8 292
4.11.4 ALR153: SACCH Downlink Messages 293
4.11.5 ALR154: Handover, Serving Cell Parameter 296
4.12 Channel mode modify 297
4.12.1 ALR701: Channel mode modify request – AMR half rate 297
4.13 Downlink Failure Detection 298
4.13.1 ALR042: Receive Invalid Paging Messages 298
4.13.2 ALR043: Test Upper Limit of Downlink Timeout Value 299
4.14 Cell Reselection 300
4.14.1 ALR900: Successful Case 300
4.14.2 ALR901: Cell Reselection after dedicated mode 305
4.14.3 ALR920: PDCH Assignment 308
4.14.4 ALR921: PDCH Assignment, Success, Start TBF establishment 309
4.14.5 ALR922: PDCH Assignment, Error during TBB establishment 309
4.14.6 ALR930: Network Coltrolled Change Cell 311
4.15 Idle Mode Neighbourcells Procedures 314
4.15.1 ALR046: Definition of BCCH Allocation 314
4.15.2 ALR047: Synchronisation to Neighbour Cells successfull 316
4.15.3 ALR048: Synchronisation to Neighbour Cells failed 326
4.15.4 ALR053: Reading of Neighbour Cell BCCH, failed 338
4.15.5 ALR061: Ncell-Synch, NCC permitted Check 345
4.15.6 ALR650: Multiband = 0, Serving Cell is GSM 900, 8 channels 350
4.15.7 ALR651: Multiband = 0, Serving Cell is DCS 1800, 8 channels 360
4.15.8 ALR652: Multiband = 1, Serving Cell is GSM 900, 8 channels 369
4.15.9 ALR653: Multiband = 1, Serving Cell is GSM 900, 4 channels 378
4.15.10 ALR654: Multiband = 1, Serving Cell is DCS 1800, 8 channels 386
4.15.11 ALR655: Multiband = 1, Serving Cell is DCS 1800, 4 channels 395
4.15.12 ALR902: Synchronisation to Neighbour Cells successful (sys info 4) 402
4.15.13 ALR903: Synchronisation to Neighbour Cells successful (sys info 4 and 7) 413
4.15.14 ALR904: Synchronisation to Neighbour Cells successful (sys info 4 and 8) 424
4.15.15 ALR905: Synchronisation to Neighbour Cells successful (unexpected msg and sys info 3) 438
4.15.16 ALR906: Synchronisation to Neighbour Cells successful (read error and sys info 3) 449
4.15.17 ALR907: Synchronisation to Neighbour Cells successful (sys info 3) 461
4.16 Short Message Cell Broadcast 471
4.16.1 ALR800: Configuration CBCH followed by MMI Request 471
4.16.2 ALR801: MMI Request followed by Configuration of CBCH 473
4.16.3 ALR802: Reception of NULL Message 475
4.16.4 ALR803: Reception of expected CBCH Message 475

4.16.5 ALR804: Reception of unexpected CBCH Message 476
4.16.6 ALR805: Reception of unscheduled SCHEDULE Message 477
4.16.7 ALR806: RR select first channel 478

Appendices 483

A. Acronyms 483
B. Glossary 483

List of Figures and Tables

List of References

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1.1 References

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[39] Service Access Point MNCC
6147.101.96.100; Condat GmbH
[40] Service Access Point MNSS
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[41] Service Access Point MNSMS
6147.103.96.100; Condat GmbH
[42] Service Access Point MMCC
6147.104.97.100; Condat GmbH
[43] Service Access Point MMSS
6147.105.97.100; Condat GmbH
[44] Service Access Point MMSMS
6147.106.97.100; Condat GmbH
[45] Service Access Point RR
6147.107.97.100; Condat GmbH
[46] Service Access Point SIM
6147.108.97.100; Condat GmbH
[47] Service Access Point MPH
6147.109.96.100; Condat GmbH
[48] Service Access Point DL
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[49] Service Access Point MDL
6147.111.96.100; Condat GmbH
[50] Service Access Point PH
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[51] Service Access Point MMI
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[52] Message Sequence Charts CC
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[62] Test Specification MM
6147.403.97.100; Condat GmbH
[63] Test Specification RR
6147.404.97.100; Condat GmbH
[64] Test Specification DL
6147.405.97.100; Condat GmbH
[65] Test Specification CCD
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6147.500.97.100; Condat GmbH
[67] SDL Specification SS
6147.501.97.100; Condat GmbH
[68] SDL Specification SMS
6147.502.97.100; Condat GmbH
[69] SDL Specification MM
6147.503.97.100; Condat GmbH
[70] SDL Specification RR
6147.504.97.100; Condat GmbH
[71] SDL Specification DL
6147.505.97.100; Condat GmbH
[72] Message Specification CC
6147.600.97.100; Condat GmbH
[73] Message Specification SS
6147.601.97.100; Condat GmbH
[74] Message Specification SMS
6147.602.97.100; Condat GmbH
[75] Message Specification MM
6147.603.97.100; Condat GmbH
[76] Message Specification RR
6147.604.97.100; Condat GmbH
[77] Message Specification DL
6147.605.97.100; Condat GmbH
[78] Technical Documentation CC
6147.700.97.100; Condat GmbH
[79] Technical Documentation SS
6147.701.97.100; Condat GmbH
[80] Technical Documentation SMS
6147.702.97.100; Condat GmbH
[81] Technical Documentation MM
6147.703.97.100; Condat GmbH
[82] Technical Documentation RR
6147.704.97.100; Condat GmbH
[83] Technical Documentation DL
6147.705.97.100; Condat GmbH
[84] Technical Documentation CCD
6147.706.97.100; Condat GmbH

1.2 Abbreviations

AGCH Access Grant Channel
BCCH Broadcast Control Channel
BS Base Station
BSIC Base Station Identification Code
CBCH Cell Broadcast Channel
CBQ Cell Bar Qualify
CC Call Control
CCCH Common Control Channel
CCD Condat Coder Decoder
CKSN Ciphering Key Sequence Number
C/R Command / Result
C1 Path Loss Criterion
C2 Reselection Criterion
DCCH Dedicated Control Channel
DISC Disconnect Frame
DL Data Link Layer
DM Disconnected Mode Frame
EA Extension Bit Address Field
EL Extension Bit Length Field
EMMI Electrical Man Machine Interface
F Final Bit
FACCH Fast Associated Control Channel
FHO Forced Handover
GP Guard Period
GSM Global System for Mobile Communication
HPLMN Home Public Land Mobile Network
I Information Frame
IMEI International Mobile Equipment Identity
IMSI International Mobile Subscriber Identity
Kc Authentication Key
L Length Indicator
LAI Location Area Information
LPD Link Protocol Discriminator
M More Data Bit
MCC Mobile Country Code
MM Mobility Management
MMI Man Machine Interface
MNC Mobile Network Code
MS Mobile Station
NCC National Colour Code
NECI New Establishment Causes included
N(R) Receive Number
N(S) Send Number
OTD Observed Time Difference
P Poll Bit
PCH Paging Channel
PDU Protocol Description Unit
P/F Poll / Final Bit
PL Physical Layer
PLMN Public Land Mobile Network
RACH Random Access Channel
REJ Reject Frame
RNR Receive Not Ready Frame
RR Radio Resource Management
RR Receive Ready Frame
RTD Real Time Difference

SABM Set Asynchronous Balanced Mode
SACCH Slow Associated Control Channel
SAP Service Access Point
SAPI Service Access Point Identifier
SDCCH Slow Dedicated Control Channel
SIM Subscriber Identity Module
SMS Short Message Service
SMSCB Short Message Service Cell Broadcast
SS Supplementary Services
TCH Traffic Channel
TCH/F Traffic Channel Full Rate
TCH/H Traffic Channel Half Rate
TDMA Time Division Multiple Access
TMSI Temporary Mobile Subscriber Identity
UA Unnumbered Acknowledgement Frame
UI Unnumbered Information Frame
VPLMN Visiting Public Land Mobile Network
V(A) Acknowledgement State Variable
V(R) Receive State Variable
V(S) Send State Variable

1.3 Terms

Entity:	Program which executes the functions of a layer
Message:	A message is a data unit which is transferred between the entities of the same layer (peer-to-peer) of the mobile and infrastructure side. Message is used as a synonym to protocol data unit (PDU). A message may contain several information elements.
Primitive:	A primitive is a data unit which is transferred between layers on one component (mobile station or infrastructure). The primitive has an operation code which identifies the primitive and its parameters.
Service Access Point:	A Service Access Point is a data interface between two layers on one component (mobile station or infrastructure).

2 Overview

The Protocol Stacks are used to define the functionality of the GSM protocols for interfaces. The GSM specifications are normative when used to describe the functionality of interfaces, but the stacks and the subdivision of protocol layers does not imply or restrict any implementation.

The base of the Protocol Stack rests on the physical layer.

The Data Link Layer (DL) is used to handle an acknowledged connection between mobile and base station. The LAPDm protocol is used.

Radio Resource (RR) manages the resources of the air-interface. That means configuration of physical layer, cell selection and cell reselection, data transfer, RR-Connection handling.

Mobility Management (MM) handles registration aspects for the mobile station. It detects changes of location areas and updates a mobile station in the new location area.

Call Control (CC) provides the call functionality. This includes call establishment, call maintenance procedures like Hold, Retrieve or Modify, and call disconnection.

Supplementary Services (SS) handles all call independent supplementary services like call forwarding or call barring.

Short Message Services (SMS) is used for sending and receiving point-to-point short messages. Additionally the reception of cell broadcast short messages is included.

The man machine interface (MMI) is the interface to the user. Normally it is connected with a keypad as input device and a display as output device.

Between the several entities data interfaces are defined. These data interfaces are called Service Access Points (SAPs), indicating that an upper layer uses the services of a lower layer.

The GSM specification do not set out any implementation of the Protocol Stack. The following diagrams show the implementation described in all these documents for the mobile station. All entities except the Man Machine Interface and Physical Layer are implemented as part of the Protocol Stack.
This document describes the tests for the ALR functionality.

3 Parameters

```
#define RR  CCDENT_RR
```

DECLARATION (ARFCN_11b)
DECLARATION (ARFCN_124a)
DECLARATION (ARFCN_124b)
DECLARATION (NCELLS_14_BSIC_PBCCH)
DECLARATION (NCELLS_124_BSIC_PBCCH)
DECLARATION (NCELLS_10_BSIC_PBCCH)
DECLARATION (CHLIST_14_124_10_PBCCH)
DECLARATION (CHLIST_14_PBCCH)
DECLARATION (CHLIST_124_PBCCH)
DECLARATION (CHLIST_10_PBCCH)
DECLARATION (NCELLS_14_PBCCH)
DECLARATION (NCELLS_10_PBCCH)
DECLARATION (NCELLS_124_PBCCH)
DECLARATION (ARFCN_14a)
DECLARATION (ARFCN_14b)
DECLARATION (ARFCN_1a)
DECLARATION (ARFCN_1b)
DECLARATION (ARFCN_23_14_124_1)
DECLARATION (ARFCN_23a)
DECLARATION (ARFCN_25a)
DECLARATION (ARFCN_25b)
DECLARATION (ARFCN_512a)
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DECLARATION (CBCH_1_13_CONTENT)

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DECLARATION (CHLIST_14_124_FFFF)
DECLARATION (CHLIST_14_2_8)

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DECLARATION (CHLIST_46_52_59_66_73_74_FFFF)
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DECLARATION (CHLIST_512_580_810_FFFF)
DECLARATION (CHLIST_512_580_885_FFFF)
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DECLARATION (CHLIST_512_885_FFFF)
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DECLARATION (CHLIST_637_512_580_885)
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DECLARATION (CHLIST_73_74_75_76_FFFF)
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DECLARATION (CLASS_GSM_1900)
DECLARATION (CLASS_GSM_900)
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DECLARATION (EMPTY_SCELL_NBCCH)
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DECLARATION (FREQ_LIST_ASS_BEFORE_NO)
DECLARATION (FREQ_LIST_FR)
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DECLARATION (FREQ_LIST_IA)
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DECLARATION (FREQ_LIST_NO)
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DECLARATION (FULL_READ_ARRAY)
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DECLARATION (HO_PARAM_1)
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DECLARATION (IMM_ASS_REJ)
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DECLARATION (NCELLS_1_BSIC)
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DECLARATION (NCELLS_1_14_124_FO)
DECLARATION (NCELLS_1_14_124_RXLEVS)
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DECLARATION (NCELLS_1_14_NCC_BSICS)
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DECLARATION (NCELLS_1_14_NCC_TA)
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DECLARATION (NCELLS_RES_SC_23_16_2B)
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DECLARATION (NCELLS_SC_1800_4_1_FO)
DECLARATION (NCELLS_SC_1800_4_1_RXLEVS)
DECLARATION (NCELLS_SC_1800_4_1_TA)
DECLARATION (NCELLS_SC_1800_8_1)
DECLARATION (NCELLS_SC_1800_8_1_BSICS)
DECLARATION (NCELLS_SC_1800_8_1_FO)
DECLARATION (NCELLS_SC_1800_8_1_RXLEVS)
DECLARATION (NCELLS_SC_1800_8_1_TA)
DECLARATION (NCELLS_SC_23_16_2)
DECLARATION (NCELLS_SC_900_16_2)
DECLARATION (NCELLS_SC_900_4_1)
DECLARATION (NCELLS_SC_900_4_1_BSICS)
DECLARATION (NCELLS_SC_900_4_1_FO)
DECLARATION (NCELLS_SC_900_4_1_RXLEVS)
DECLARATION (NCELLS_SC_900_4_1_TA)
DECLARATION (NCELLS_SC_900_8)
DECLARATION (NCELLS_SC_900_8_1)
DECLARATION (NCELLS_SC_900_8_1_BSICS)
DECLARATION (NCELLS_SC_900_8_1_FO)
DECLARATION (NCELLS_SC_900_8_1_RXLEVS)
DECLARATION (NCELLS_SC_900_8_1_TA)
DECLARATION (NCELLS_SC_900_8_BSICS)
DECLARATION (NCELLS_SC_900_8_FO)
DECLARATION (NCELLS_SC_900_8_RXLEVS)
DECLARATION (NCELLS_SC_900_8_TA)
DECLARATION (NEIGH_CELL_DESC_1)
DECLARATION (NEIGH_CELL_DESC_2)
DECLARATION (NO_CBCH)
DECLARATION (NO_NCELLS)
DECLARATION (NO_STARTING_TIME)
DECLARATION (NULL_MESSAGE)
DECLARATION (NULL_MESSAGE_CONTENT)
DECLARATION (PAGE_MODE_1)
DECLARATION (PAGING_REQ_1)
DECLARATION (PAGING_REQ_1_EXT)
DECLARATION (PAGING_REQ_1_REO)

DECLARATION (PAGING_REQ_1_SAB)
DECLARATION (PCH_NCH_INFO_1)
DECLARATION (PCK_CHAN_DESC_1)
DECLARATION (PERIODIC_SCELL_BCCH_ARRAY)
DECLARATION (RACH_CTRL_1)
DECLARATION (REQ_REF_1)
DECLARATION (RF_1_14_0_124_512_580_1023_975)
DECLARATION (RF_1_14_0_124_512_580_1023_FFFF)
DECLARATION (RF_1_14_124_23)
DECLARATION (RF_1_14_124_512_580_637_1023_0)
DECLARATION (RF_1_14_124_512_580_637_1023_FFFF)
DECLARATION (RF_1_14_15)
DECLARATION (RF_1_14_23_124_FFFF)
DECLARATION (RF_10_20_40_80_90_100_110_120)
DECLARATION (RF_10_20_40_80_90_100_110_120_FFFF)
DECLARATION (RF_10_FFFF)
DECLARATION (RF_14)
DECLARATION (RF_14_2_8)
DECLARATION (RF_14_23_1_124)
DECLARATION (RF_2_8_FFFF)
DECLARATION (RF_23)
DECLARATION (RF_23_1_11_14_25_87_124_512_885)
DECLARATION (RF_23_1_14_124)
DECLARATION (RF_23_1_14_124_512_580_637_885)
DECLARATION (RF_23_1_14_25_124_512_580_637_885)
DECLARATION (RF_23_1_14_512_885)
DECLARATION (RF_23_1_15)
DECLARATION (RF_42_2_30)
DECLARATION (RF_23_10)
DECLARATION (RF_512_580_810_637)
DECLARATION (RF_512_580_810_FFFF)
DECLARATION (RF_512_637_810_FFFF)
DECLARATION (RF_578_1_14_25_124_512_580_637_885)
DECLARATION (RF_580)
DECLARATION (RF_580_512_637_810)
DECLARATION (RF_580_512_637_885)
DECLARATION (RF_637)
DECLARATION (RF_637_1_14_23_124_512_580_885)
DECLARATION (RF_637_1_14_512_513_600_700_810_885)
DECLARATION (RF_637_1_14_512_885)
DECLARATION (RF_637_512_580_885)
DECLARATION (RF_975)
DECLARATION (RF_CHANNEL_1)
DECLARATION (RF_CHANNEL_10)
DECLARATION (RF_CHANNEL_11)
DECLARATION (RF_CHANNEL_12)
DECLARATION (RF_CHANNEL_2)
DECLARATION (RF_CHANNEL_3)
DECLARATION (RF_CHANNEL_4)
DECLARATION (RF_CHANNEL_5)
DECLARATION (RF_CHANNEL_6)
DECLARATION (RF_CHANNEL_7)
DECLARATION (RF_CHANNEL_8)
DECLARATION (RF_CHANNEL_9)

DECLARATION (RXLEV_23_14_124_1)
DECLARATION (RXLEV_637_580_810_512)
DECLARATION (RXLEV_637_580_885_512)
DECLARATION (RXLEV_DUAL)
DECLARATION (RXLEV_EGSM)
DECLARATION (S_TIME_MPHC)
DECLARATION (S_TIME_MPHC_ST)
DECLARATION (S_TIME_T1)
DECLARATION (S_TIME_T1_ST)
DECLARATION (S_TIME_T2)
DECLARATION (S_TIME_T2_ST)
DECLARATION (SCELL_TC0)
DECLARATION (SCELL_TC1)
DECLARATION (SCELL_TC2)
DECLARATION (SCELL_TC3)
DECLARATION (SCELL_TC4)
DECLARATION (SCELL_TC5)
DECLARATION (SCELL_TC6)
DECLARATION (SCELL_TC7)
DECLARATION (SCHEDULE_1_A)
DECLARATION (SCHEDULE_1_A_CONTENT)
DECLARATION (SCHEDULE_1_B)
DECLARATION (SCHEDULE_1_B_CONTENT)
DECLARATION (SCHEDULE_2)
DECLARATION (SCHEDULE_2_CONTENT)
DECLARATION (SCHEDULE_3)
DECLARATION (SCHEDULE_3_CONTENT)
DECLARATION (SCHEDULE_4)
DECLARATION (SCHEDULE_4_CONTENT)
DECLARATION (SI6_REST_OCT_1)
DECLARATION (SI7_REST_OCT_1)
DECLARATION (SI8_REST_OCT_1)
DECLARATION (STARTING_TIME)
DECLARATION (STARTING_TIME_T1)
DECLARATION (STARTING_TIME_T2)
DECLARATION (STOP_ARRAY_1)
DECLARATION (STOP_ARRAY_11)
DECLARATION (STOP_ARRAY_124)
DECLARATION (STOP_ARRAY_14)
DECLARATION (STOP_ARRAY_25)
DECLARATION (STOP_ARRAY_512)
DECLARATION (STOP_ARRAY_513)
DECLARATION (STOP_ARRAY_580)
DECLARATION (STOP_ARRAY_600)
DECLARATION (STOP_ARRAY_637)
DECLARATION (STOP_ARRAY_700)
DECLARATION (STOP_ARRAY_810)
DECLARATION (STOP_ARRAY_87)
DECLARATION (STOP_ARRAY_885)
DECLARATION (STOP_ARRAY_EMPTY)
DECLARATION (STOP_BURSTS)
DECLARATION (SYS_INFO_4_ACS)
DECLARATION (SYS_INFO_6)
DECLARATION (SYS_INFO_7)

```
DECLARATION (SYS_INFO_8)
DECLARATION (T123_BURST_1)
DECLARATION (TIME_ADVANCE_1)
DECLARATION (TIME_ADVANCE_2)
DECLARATION (TMSI)
DECLARATION (TMSI2)
DECLARATION (TR_PARAM)
DECLARATION (TWO_BURSTS)
DECLARATION (VBS_VGCS_OPT_1)

/* AMR */
DECLARATION (S_AMR_CONF_4_ICMI)
DECLARATION (SA_COD_PROP_4)
DECLARATION (S_COD_PROP_1)
DECLARATION (S_COD_PROP_2)
DECLARATION (S_COD_PROP_3)
DECLARATION (S_AMR_CONFIGURATION)
DECLARATION (A_THRESHOLD)
DECLARATION (A_HYSTERESIS)

/*
BYTE  TV_INVALID_TIMING_INFO 0
BYTE  TV_VALID_TIMING_INFO   2
BYTE  SM_WIDE_MODE           0
BYTE  L2_CHANNEL_NBCCH           6
BYTE  PGM_NORMAL                 0
BYTE  PGM_EXTENDED               1
BYTE  PGM_REORG                  2
SHORT       NCELL_BCCH_SI_3_4          0x00CC
SHORT       NCELL_BCCH_SI_2_3_4        0x00CE
SHORT       NCELL_BCCH_SI_2        0x0002
SHORT       NCELL_BCCH_SI_3_7_8        0x8844
BYTE  NO_OF_CELLS_4          4
BYTE  NO_OF_CELLS_1          1
BYTE  HO_COMPLETE                0
BYTE  HO_TIMEOUT                 1
BYTE  HO_TIMEOUT                 1
BYTE   CBCH_READ_NORM            0
BYTE   CBCH_READ_EXT         1
BYTE  CBCH_NORM_BLOCK234         7
BYTE  MAX_SCHED_SIZE         10
*/
BYTE  NO_OF_CELLS_3          3
BYTE  RAND_BURSTS_2          2
BYTE   TI_0    0
BYTE   BAND_0 0
BYTE   TI_1    1
BYTE   TI_2    2
BYTE   TI_3    3
BYTE   TI_4    4
BYTE   TI_5    5
BYTE   TI_6    6
BYTE   TI_7    7
BYTE   TI_8    8
```

```
BYTE   TI_9     9
BYTE  NCC_PERMIT_1      0x01
BYTE  NCC_PERMIT_2      0x00
SHORT CELL_IDENT_1  0x3748
SHORT  CELL_IDENT_2 0x0004
SHORT CELL_IDENT_3  0x0104
SHORT ACC_0005      0x0040
BYTE  PAGE_NORM0
BYTE  MODE_CBCH_CONFIG      10
BYTE  CBCH_ACCEPT       0
BYTE  CBCH_READ_SUCCESS     1
BYTE  CH_TYPE_CBCH      7
BYTE  HO_REF        23
BYTE  HO_POW        10
BYTE  RXLEV_IDX_1       0
BYTE  RXLEV_IDX_2       1
BYTE  RXLEV_IDX_3_1800 2
BYTE  RXLEV_IDX_DUAL   3
BYTE  RXLEV_IDX_2_DUAL      1
BYTE  SCHED_SIZE_1      1
BYTE  SCHED_LEN_0       0
BYTE  CHAN_LIST_IDX_0   0
SHORT       ONE_ELEM    1
SHORT       PERIODIC_SCELL_BCCH_ARRAY_SIZE  8
BYTE  CBCH_LEN_22       22
BYTE  CBCH_LEN_44       44
BYTE  CBCH_LEN_66       66
BYTE  CBCH_LEN_88       88

BYTE  TEST  0x7C

BYTE   ENTITY       0x01
LONG  Bitm_L  0x0040
SHORTBitm_H 0x0000



/* Constants */
SHORTARFCN_0        0
SHORTARFCN_1        1
SHORTARFCN_2        2
SHORTARFCN_3        3
SHORTARFCN_4        4
SHORTARFCN_5        5
SHORTARFCN_6        6
SHORTARFCN_7        7
SHORTARFCN_8        8
SHORTARFCN_9        9
SHORTARFCN_10       10
SHORTARFCN_11       11
SHORTARFCN_12       12
SHORTARFCN_13       13
SHORTARFCN_14       14
SHORTARFCN_15       15
SHORTARFCN_16       16
SHORTARFCN_17       17
```

SHORTARFCN_18	18
SHORTARFCN_19	19
SHORTARFCN_20	20
SHORTARFCN_21	21
SHORTARFCN_22	22
SHORTARFCN_23	23
SHORTARFCN_X817	0x817
SHORTARFCN_24	24
SHORTARFCN_25	25
SHORTARFCN_26	26
SHORTARFCN_27	27
SHORTARFCN_28	28
SHORTARFCN_29	29
SHORTARFCN_30	30
SHORTARFCN_34	34
SHORTARFCN_40	40
SHORTARFCN_42	42
SHORTARFCN_46	46
SHORTARFCN_52	52
SHORTARFCN_59	59
SHORTARFCN_66	66
SHORTARFCN_69	69
SHORTARFCN_73	73
SHORTARFCN_74	74
SHORTARFCN_75	75
SHORTARFCN_76	76
SHORTARFCN_80	80
SHORTARFCN_87	87
SHORTARFCN_90	90
SHORTARFCN_100	100
SHORTARFCN_108	108
SHORTARFCN_110	110
SHORTARFCN_114	114
SHORTARFCN_115	115
SHORTARFCN_120	120
SHORTARFCN_124	124
SHORTARFCN_512	512
SHORTARFCN_513	513
SHORTARFCN_514	514
SHORTARFCN_515	515
SHORTARFCN_516	516
SHORTARFCN_517	517
SHORTARFCN_518	518
SHORTARFCN_519	519
SHORTARFCN_520	520
SHORTARFCN_521	521
SHORTARFCN_522	522
SHORTARFCN_523	523
SHORTARFCN_524	524
SHORTARFCN_525	525
SHORTARFCN_526	526
SHORTARFCN_527	527
SHORTARFCN_528	528
SHORTARFCN_529	529
SHORTARFCN_530	530
SHORTARFCN_531	531
SHORTARFCN_532	532
SHORTARFCN_533	533
SHORTARFCN_534	534

```
SHORTARFCN_535    535
SHORTARFCN_536    536
SHORTARFCN_537    537
SHORTARFCN_538    538
SHORTARFCN_539    539
SHORTARFCN_540    540
SHORTARFCN_541    541
SHORTARFCN_542    542
SHORTARFCN_543    543
SHORTARFCN_544    544
SHORTARFCN_545    545
SHORTARFCN_546    546
SHORTARFCN_547    547
SHORTARFCN_548    548
SHORTARFCN_549    549
SHORTARFCN_550    550
SHORTARFCN_551    551
SHORTARFCN_570    570
SHORTARFCN_578    578
SHORTARFCN_580    580
SHORTARFCN_588    588
SHORTARFCN_600    600
SHORTARFCN_637    637
SHORTARFCN_687    687
SHORTARFCN_700    700
SHORTARFCN_810    810
SHORTARFCN_853    853
SHORTARFCN_885    885
SHORTARFCN_883    883
SHORTARFCN_975    975
SHORTARFCN_1023   1023
BYTE   BA_ID_1          1
BYTE   BA_ID_2          2
BYTE   BA_ID_3          3
BYTE   BA_ID_4          4
BYTE   BS_AG_BLKS_RES_2 2
BYTE   BS_AG_BLKS_RES_3 3
BYTE   BS_AG_BLKS_RES_5 5
BYTE   BS_AG_BLKS_RES_7 7
BYTE   BS_PA_MFRMS_0    0
BYTE   BS_PA_MFRMS_1    1
BYTE   BS_PA_MFRMS_2    2
BYTE   BS_PA_MFRMS_3    3
BYTE   BS_PA_MFRMS_4    4
BYTE   BS_PA_MFRMS_5    5
BYTE   BS_PA_MFRMS_6    6
BYTE   BS_PA_MFRMS_7    7
BYTE   BS_PA_MFRMS_8    8
BYTE   BS_PA_MFRMS_9    9
BYTE   BSIC_0 0
BYTE   BSIC_1 1
BYTE   BSIC_2 2
BYTE   BSIC_10          10
BYTE   BSIC_16          16
BYTE   CCCH_GROUP_0     0
BYTE   CCCH_GROUP_2     2
BYTE   CHANNEL_REQUEST_1        0xA0
BYTE   CHANNEL_REQUEST_2        0xA3
BYTE   CHANNELS_0 0
```

```
BYTE   CHANNELS_1  1
BYTE   CHANNELS_2  2
BYTE   CHANNELS_3  3
BYTE   CHANNELS_4  4
BYTE   CHANNELS_5  5
BYTE        CHANNELS_8        8
BYTE        CHANNELS_9        9
BYTE        CHANNELS_17       17
BYTE        DLT_10            10
BYTE        DLT_24            24
SHORT       FN_BURST_1        61434
SHORT       FN_OFFSET_0       0
SHORT       FN_OFFSET_1       101
SHORT       FN_OFF_1          1
SHORT       FN_OFF_2          2
SHORT       FN_OFF_3          3
SHORT       FN_OFF_4          4
SHORT       FN_OFF_16         16
SHORT       FN_OFFSET_14      114
SHORT       FN_OFFSET_10      10
SHORT       FN_OFFSET_102     10*102
SHORT       FN_OFFSET_124     224
SHORT       FN_OFFSET_153     7*153
SHORT       FN_OFFSET_204     5*204
SHORT       FN_OFFSET_255     4*255
SHORT       FN_OFFSET_306     3*306
SHORT       FN_OFFSET_357     3*357
SHORT       FN_OFFSET_408     2*408
SHORT       FN_OFFSET_459     2*459
SHORT       FN_OFFSET_10      10
SHORT       FN_OFFSET_11      11
SHORT       FN_OFFSET_23      23
SHORT       FN_OFFSET_25      25
SHORT       FN_OFFSET_87      87
SHORT       FN_OFFSET_512     512
SHORT       FN_OFFSET_513     513
SHORT       FN_OFFSET_540     540
SHORT       FN_OFFSET_570     570
SHORT       FN_OFFSET_580     580
SHORT       FN_OFFSET_600     600
SHORT       FN_OFFSET_637     637
SHORT       FN_OFFSET_700     700
SHORT       FN_OFFSET_810     810
SHORT       FN_OFFSET_816    816
SHORT       FN_OFFSET_885    885
SHORT       FN_OFFSET_918    918
SHORT       FN_OFFSET_1020   1020
SHORT       FN_OFFSET_1071   1071
BYTE  MF51_0       0
BYTE  MF51_2       2
BYTE  MF51_3       3
BYTE  MF51_4       4
BYTE  MF51_5       5
BYTE  MF51_7       7
```

```
BYTE  NCC_PERMITTED_4 4
BYTE  PBI_0  0
BYTE  PBI_1  1
BYTE  PBI_2  2
BYTE  PBI_4  4
BYTE  PG_0  0
BYTE  PG_1  1
BYTE  PG_11 11
BYTE  PG_20 20
BYTE  PG_23 23
BYTE  PGROUP_1  1
BYTE  PGROUP_3  3
BYTE  POWER_12  12
BYTE  POWER_1  1
BYTE  POWER_CLASS_2  2
BYTE  POWER_CLASS_3  3
BYTE  POWER_CLASS_4  4
BYTE  POWER_CLASS_5  5
BYTE  RAND_BURST_1  6
BYTE  RAND_BURST_2  8
BYTE  RXLEV_11  11
BYTE  RXLEV_12  12
BYTE  RXLEV_23  23
BYTE  RXLEV_25  25
BYTE  RXLEV_43  43
BYTE  RXLEV_44  44
BYTE  RXLEV_55  55
BYTE  RXLEV_56  56
SHORT  NORMAL_BCCH_BITMAP  0x00FF
SHORT  SYS_12342BIS  0x030F
SHORT  SYS_2342BIS 0x030E
SHORT  SYS_34  0x000C
BYTE  TC_0  0
BYTE  TC_1  1
BYTE  TC_2  2
BYTE  TC_3  3
BYTE  TC_4  4
BYTE  TC_5  5
BYTE  TC_6  6
BYTE  TC_7  7
LONG TIME_ALIGNMT_0  0
LONG TIME_ALIGNMT_1  1
SHORT  TIME_ALIGNMT_2  2
SHORT  TIME_ALIGNMT_3  3
SHORT  TIME_ALIGNMT_4  4
SHORT  TIME_ALIGNMT_10  10
SHORT  TIME_ALIGNMT_11  11
SHORT  TIME_ALIGNMT_14  14
SHORT  TIME_ALIGNMT_16  16
SHORT  TIME_ALIGNMT_124 124
SHORT  TIME_ALIGNMT_23  23
SHORT  TIME_ALIGNMT_25  25
SHORT  TIME_ALIGNMT_87  87
SHORT  TIME_ALIGNMT_512 512
```

```
SHORT       TIME_ALIGNMT_513513
SHORT       TIME_ALIGNMT_540540
SHORT       TIME_ALIGNMT_570570
SHORT       TIME_ALIGNMT_580580
SHORT       TIME_ALIGNMT_600600
SHORT       TIME_ALIGNMT_637637
SHORT       TIME_ALIGNMT_700700
SHORT       TIME_ALIGNMT_810810
SHORT       TIME_ALIGNMT_885885
BYTE  TIMING_ADVANCE  0x1E
BYTE  TN_0  0
BYTE  TN_4  4
BYTE  LOOP_0      0
BYTE  LOOP_2      2
BYTE  LOOP_4      4
BYTE  LOOP_6      6
BYTE  LOOP_8      8
BYTE  LOOP_10     10
BYTE  LOOP_12     12
BYTE  LOOP_14     14
BYTE  LOOP_16     16
BYTE  LOOP_18     18
BYTE  LOOP_20     20
BYTE  LOOP_22     22
BYTE  LOOP_24     24
BYTE  LOOP_26     26
BYTE  LOOP_28     28
BYTE  LOOP_30     30
BYTE  LOOP_A      0
BYTE  LOOP_B      1
BYTE  LOOP_C      2
BYTE  LOOP_D      3
BYTE  LOOP_E      4
BYTE  LOOP_F      5
BYTE  SUB_CHANNEL_0   0
BYTE  TXPWR0                  10
BYTE  VALID_REPORT            1
BYTE  TV_VALID_TIMING_INFO_SB      2
BYTE  STOP_SIZE_1             1
BYTE  STOP_SIZE_3             3
BYTE  STOP_SIZE_0             0
LONG FIRST_BLOCKS_0_B      0x032042
BYTE  SCHED_LEN_5             5
LONG FIRST_BLOCKS_1_B      0

/* used for stopping NCELL BCCH and SYNC requests */
BEGIN_SHORT_ARRAY(STOP_ARRAY_EMPTY, 6)      0, 0, 0, 0, 0, 0 ENDARRAY
BEGIN_SHORT_ARRAY(STOP_ARRAY_14, 6)    ARFCN_14,0,0,0,0,0 ENDARRAY
BEGIN_SHORT_ARRAY(STOP_ARRAY_124, 6)  ARFCN_124,0,0,0,0,0       ENDARRAY
BEGIN_SHORT_ARRAY(STOP_ARRAY_25,6)     ARFCN_25,0,0,0,0,0 ENDARRAY
BEGIN_SHORT_ARRAY(STOP_ARRAY_512, 6)  ARFCN_512,0,0,0,0,0       ENDARRAY
BEGIN_SHORT_ARRAY(STOP_ARRAY_580,6)   ARFCN_580,0,0,0,0,0       ENDARRAY
BEGIN_SHORT_ARRAY(STOP_ARRAY_637,6)   ARFCN_637,0,0,0,0,0       ENDARRAY
BEGIN_SHORT_ARRAY(STOP_ARRAY_885,6)   ARFCN_885,0,0,0,0,0       ENDARRAY
```

```
BEGIN_SHORT_ARRAY(STOP_ARRAY_87,6)   ARFCN_87,0,0,0,0,0 ENDARRAY
BEGIN_SHORT_ARRAY(STOP_ARRAY_11,6)   ARFCN_11,0,0,0,0,0 ENDARRAY
BEGIN_SHORT_ARRAY(STOP_ARRAY_700,6)  ARFCN_700,0,0,0,0,0      ENDARRAY
BEGIN_SHORT_ARRAY(STOP_ARRAY_600,6)  ARFCN_600,0,0,0,0,0      ENDARRAY
BEGIN_SHORT_ARRAY(STOP_ARRAY_513,6)  ARFCN_513,0,0,0,0,0      ENDARRAY
BEGIN_SHORT_ARRAY(STOP_ARRAY_810,6)  ARFCN_810,0,0,0,0,0      ENDARRAY
BEGIN_SHORT_ARRAY(STOP_ARRAY_1,6)    ARFCN_1,0,0,0,0,0  ENDARRAY

/* AMR */

BYTE    CHANNEL_MODE_AMR  0x41
BYTE    CHM_AFS           0x0B
BYTE    CHM_AHS           0x0A
BYTE    NSCB              0x00
BYTE    ICMI_S            0x01
BYTE    ST_MODE_1         0x01
BYTE    ACS_4             0x0F
BYTE    V_COD_PROP        0x01
BYTE    C_COD_PROP_4      0x03

BEGINARRAY(A_THRESHOLD,3)
    0x01,0x03,0x05
ENDARRAY
BEGINARRAY(A_HYSTERESIS,3)
    0x01,0x03,0x05
ENDARRAY

BEGIN_PSTRUCT_ARRAY (SA_COD_PROP_4, 3)
        S_COD_PROP_1,
        S_COD_PROP_2,
        S_COD_PROP_3
ENDARRAY

BEGIN_PSTRUCT ("cod_prop", S_COD_PROP_1)
        SET_COMP ("codec_thr",0x01)
        SET_COMP ("codec_hyst",     0x01)
ENDSTRUCT
BEGIN_PSTRUCT ("cod_prop", S_COD_PROP_2)
        SET_COMP ("codec_thr",0x03)
        SET_COMP ("codec_hyst",     0x03)
ENDSTRUCT
BEGIN_PSTRUCT ("cod_prop", S_COD_PROP_3)
        SET_COMP ("codec_thr",0x05)
        SET_COMP ("codec_hyst",     0x05)
ENDSTRUCT

BEGIN_PSTRUCT ("amr_conf", S_AMR_CONF_4_ICMI)
        SET_COMP ("nscb",       NSCB)
        SET_COMP ("icmi",       ICMI_S)
        SET_COMP ("st_mode",    ST_MODE_1)
        SET_COMP ("acs",        ACS_4)
        SET_COMP ("v_cod_prop",     V_COD_PROP)
        SET_COMP ("c_cod_prop",     C_COD_PROP_4)
```

```
        SET_COMP ("cod_prop", SA_COD_PROP_4)
ENDSTRUCT

BEGIN_PSTRUCT ("amr_configuration", S_AMR_CONFIGURATION)
        SET_COMP ("noise_suppression_control_bit",NSCB)
        SET_COMP ("initial_codec_mode_indicator",  ICMI_S)
        SET_COMP ("initial_codec_mode",      ST_MODE_1)
        SET_COMP ("active_codec_set",  ACS_4)
        SET_COMP ("threshold", A_THRESHOLD)
        SET_COMP ("hysteresis",          A_HYSTERESIS)
ENDSTRUCT

/* requests full SCELL BCCH reading */
BEGIN_PSTRUCT_ARRAY(FULL_READ, MAX_SCHED_SIZE)
        FULL_READ_ARRAY,
        EMPTY_SCELL_NBCCH,
        EMPTY_SCELL_NBCCH,
        EMPTY_SCELL_NBCCH,
        EMPTY_SCELL_NBCCH,
        EMPTY_SCELL_NBCCH,
        EMPTY_SCELL_NBCCH,
        EMPTY_SCELL_NBCCH,
        EMPTY_SCELL_NBCCH,
        EMPTY_SCELL_NBCCH
ENDARRAY

BEGIN_PSTRUCT("schedule_array", FULL_READ_ARRAY)
        SET_COMP("modulus", 1)
        SET_COMP("relative_position", 0)
ENDSTRUCT

BEGIN_PSTRUCT("schedule_array", EMPTY_SCELL_NBCCH)
        SET_COMP("modulus", 0)
        SET_COMP("relative_position", 0)
ENDSTRUCT

/* requests periodic 30sec SCELL BCCH reading */
BEGIN_PSTRUCT_ARRAY(PERIODIC_SCELL_BCCH_ARRAY, MAX_SCHED_SIZE)
        SCELL_TC0,
        SCELL_TC1,
        SCELL_TC2,
        SCELL_TC3,
        SCELL_TC4,
        SCELL_TC5,
        SCELL_TC6,
        SCELL_TC7,
        EMPTY_SCELL_NBCCH,
        EMPTY_SCELL_NBCCH
ENDARRAY

BEGIN_PSTRUCT("schedule_array", SCELL_TC0)
        SET_COMP("modulus", 128)
        SET_COMP("relative_position", 0)
ENDSTRUCT
```

```
BEGIN_PSTRUCT("schedule_array", SCELL_TC1)
        SET_COMP("modulus", 128)
        SET_COMP("relative_position", 1)
ENDSTRUCT

BEGIN_PSTRUCT("schedule_array", SCELL_TC2)
        SET_COMP("modulus", 128)
        SET_COMP("relative_position", 2)
ENDSTRUCT

BEGIN_PSTRUCT("schedule_array", SCELL_TC3)
        SET_COMP("modulus", 128)
        SET_COMP("relative_position", 3)
ENDSTRUCT

BEGIN_PSTRUCT("schedule_array", SCELL_TC4)
        SET_COMP("modulus", 128)
        SET_COMP("relative_position", 4)
ENDSTRUCT

BEGIN_PSTRUCT("schedule_array", SCELL_TC5)
        SET_COMP("modulus", 128)
        SET_COMP("relative_position", 5)
ENDSTRUCT

BEGIN_PSTRUCT("schedule_array", SCELL_TC6)
        SET_COMP("modulus", 128)
        SET_COMP("relative_position", 6)
ENDSTRUCT

BEGIN_PSTRUCT("schedule_array", SCELL_TC7)
        SET_COMP("modulus", 128)
        SET_COMP("relative_position", 7)
ENDSTRUCT

BEGINARRAY(IMSI,15)
        0,0,1,0,1,3,8,2,3,3,0,5,9,4,5
ENDARRAY

LONG TMSI 0x05223366L

BEGIN_PSTRUCT ("mid", MS_ID_IMSI_TMSI)
        SET_COMP("len_imsi",15)
        SET_COMP("imsi", IMSI)
        SET_COMP("v_tmsi", 1)
        SET_COMP("tmsi",TMSI)
        SKIP_COMP("v_ptmsi")
        SKIP_COMP("ptmsi")
ENDSTRUCT

BEGINARRAY(IMSI2,15)
        0,0,1,0,1,3,8,2,3,3,0xF,0xF,0xF,0xF,0xF
ENDARRAY
```

```
LONG TMSI2 142L

BEGIN_PSTRUCT ("mid", MS_ID_SHORT_IMSI_TMSI)
        SET_COMP("len_imsi",10)
        SET_COMP("imsi", IMSI2)
        SET_COMP("v_tmsi", 1)
        SET_COMP("tmsi", TMSI2)
        SKIP_COMP("v_ptmsi")
        SKIP_COMP("ptmsi")
ENDSTRUCT

/*
0x04  Power Class GSM 900
0x00  Power Class DCS 1800 (not
      used)
*/

BEGIN_PSTRUCT("classmark", CLASS_GSM_900)
        SET_COMP("pclass", 4)
        SET_COMP("pclass2", 0)
ENDSTRUCT

/*
0x04  Power Class DCS 1800
0x00  (not used)
*/
BEGIN_PSTRUCT("classmark", CLASS_GSM_1800)
        SET_COMP("pclass", 2)
        SET_COMP("pclass2", 0)
ENDSTRUCT

/*
0x03  Power Class PCS 1900
0x00  (not used)
*/
BEGIN_PSTRUCT("classmark", CLASS_GSM_1900)
        SET_COMP("pclass", 3)
        SET_COMP("pclass2", 0)
ENDSTRUCT

/*
0x03  Power Class GSM 900
0x01  Power Class DCS 1800
*/
BEGIN_PSTRUCT("classmark", CLASS_DUAL)
        SET_COMP("pclass", CLASS_4)
        SET_COMP("pclass2", CLASS_2)
ENDSTRUCT

/*
0x03,        message identifier  for
```

0x03	CBCH
0x07, 0x07	message identifier for CBCH
0x0B, 0x0D	message identifier for CBCH
0xFF, ...	other fields not used

```
*/
BEGINARRAY (MSG_ID_3_7_11_TO_13, 40)
        3, 0, 3, 0,
        7, 0, 7, 0,
        11, 0, 13, 0,
        0xFF, 0xFF, 0xFF, 0xFF,
        0xFF, 0xFF, 0xFF, 0xFF,
        0xFF, 0xFF, 0xFF, 0xFF,
        0xFF, 0xFF, 0xFF, 0xFF,
        0xFF, 0xFF, 0xFF, 0xFF,
        0xFF, 0xFF, 0xFF, 0xFF,
        0xFF, 0xFF, 0xFF, 0xFF
ENDARRAY

BEGINARRAY (MSG_ID_1_TO_20,  40)
        1, 0, 20, 0,
        0xFF, 0xFF, 0xFF, 0xFF,
        0xFF, 0xFF, 0xFF, 0xFF,
        0xFF, 0xFF, 0xFF, 0xFF,
        0xFF, 0xFF, 0xFF, 0xFF,
        0xFF, 0xFF, 0xFF, 0xFF,
        0xFF, 0xFF, 0xFF, 0xFF,
        0xFF, 0xFF, 0xFF, 0xFF,
        0xFF, 0xFF, 0xFF, 0xFF,
        0xFF, 0xFF, 0xFF, 0xFF
ENDARRAY

/*
```

0xFF, 0xFF ...	data coding scheme for CBCH
0xFF, ...	other fields not used

```
*/
BEGINARRAY (DCS_ID_EMPTY, 40)
        0xFF, 0xFF, 0xFF, 0xFF,
        0xFF, 0xFF, 0xFF, 0xFF,
        0xFF, 0xFF, 0xFF, 0xFF,
        0xFF, 0xFF, 0xFF, 0xFF,
        0xFF, 0xFF, 0xFF, 0xFF,
        0xFF, 0xFF, 0xFF, 0xFF,
        0xFF, 0xFF, 0xFF, 0xFF,
        0xFF, 0xFF, 0xFF, 0xFF,
        0xFF, 0xFF, 0xFF, 0xFF,
        0xFF, 0xFF, 0xFF, 0xFF
ENDARRAY

/*
```

0x00	First block

```
0x00, 0x00      Serial number
0x00, 0x05      Message identifier
0x00            Data coding scheme
0x01            Page
0xAA, ...       Content
*/
BEGIN_PSTRUCT ("l2_frame", CBCH_1_7)
        SET_COMP ("content", CBCH_1_7_CONTENT)
ENDSTRUCT

BEGINARRAY_PART (CBCH_1_7_CONTENT, 23)
        0x00,
        0x00, 0x00,
        0x00, 0x07,
        0x00,
        0x01,
        0xAA, 0xAB, 0xAC, 0xAD,
        0xAE, 0xAF, 0xB0, 0xB1,
        0xB2, 0xB3, 0xB4, 0xB5,
        0xB6, 0xB7, 0xB8, 0xB9
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", CBCH_1_7_B)
        SET_COMP ("content", CBCH_1_7_B_CONTENT)
ENDSTRUCT

BEGINARRAY_PART (CBCH_1_7_B_CONTENT, 23)
        0x00,
        0x00, 0x01,
        0x00, 0x07,
        0x00,
        0x01,
        0xAA, 0xAB, 0xAC, 0xAD,
        0xAE, 0xAF, 0xB0, 0xB1,
        0xB2, 0xB3, 0xB4, 0xB5,
        0xB6, 0xB7, 0xB8, 0xB9
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", CBCH_1_2)
        SET_COMP ("content", CBCH_1_2_CONTENT)
ENDSTRUCT

BEGINARRAY_PART (CBCH_1_2_CONTENT, 23)
        0x00,
        0x00, 0x00,
        0x00, 0x02,
        0x00,
        0x01,
        0xAA, 0xAB, 0xAC, 0xAD,
        0xAE, 0xAF, 0xB0, 0xB1,
        0xB2, 0xB3, 0xB4, 0xB5,
```

```
        0xB6, 0xB7, 0xB8, 0xB9
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", CBCH_1_3)
        SET_COMP ("content", CBCH_1_3_CONTENT)
ENDSTRUCT

BEGINARRAY_PART (CBCH_1_3_CONTENT, 23)
        0x00,
        0x00, 0x00,
        0x00, 0x03,
        0x00,
        0x01,
        0xAA, 0xAB, 0xAC, 0xAD,
        0xAE, 0xAF, 0xB0, 0xB1,
        0xB2, 0xB3, 0xB4, 0xB5,
        0xB6, 0xB7, 0xB8, 0xB9
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", CBCH_1_8)
        SET_COMP ("content", CBCH_1_8_CONTENT)
ENDSTRUCT

BEGINARRAY_PART (CBCH_1_8_CONTENT, 23)
        0x00,
        0x00, 0x00,
        0x00, 0x08,
        0x00,
        0x01,
        0xAA, 0xAB, 0xAC, 0xAD,
        0xAE, 0xAF, 0xB0, 0xB1,
        0xB2, 0xB3, 0xB4, 0xB5,
        0xB6, 0xB7, 0xB8, 0xB9
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", CBCH_1_11)
        SET_COMP ("content", CBCH_1_11_CONTENT)
ENDSTRUCT

BEGINARRAY_PART (CBCH_1_11_CONTENT, 23)
        0x00,
        0x00, 0x00,
        0x00, 0x0B,
        0x00,
        0x01,
        0xAA, 0xAB, 0xAC, 0xAD,
        0xAE, 0xAF, 0xB0, 0xB1,
        0xB2, 0xB3, 0xB4, 0xB5,
        0xB6, 0xB7, 0xB8, 0xB9
ENDARRAY
```

```
BEGIN_PSTRUCT ("l2_frame", CBCH_1_12)
        SET_COMP ("content", CBCH_1_12_CONTENT)
ENDSTRUCT

BEGINARRAY_PART (CBCH_1_12_CONTENT, 23)
        0x00,
        0x00, 0x00,
        0x00, 0x0C,
        0x00,
        0x01,
        0xAA, 0xAB, 0xAC, 0xAD,
        0xAE, 0xAF, 0xB0, 0xB1,
        0xB2, 0xB3, 0xB4, 0xB5,
        0xB6, 0xB7, 0xB8, 0xB9
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", CBCH_1_13)
        SET_COMP ("content", CBCH_1_13_CONTENT)
ENDSTRUCT

BEGINARRAY_PART (CBCH_1_13_CONTENT, 23)
        0x00,
        0x00, 0x00,
        0x00, 0x0D,
        0x00,
        0x01,
        0xAA, 0xAB, 0xAC, 0xAD,
        0xAE, 0xAF, 0xB0, 0xB1,
        0xB2, 0xB3, 0xB4, 0xB5,
        0xB6, 0xB7, 0xB8, 0xB9
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", CBCH_1_14)
        SET_COMP ("content", CBCH_1_14_CONTENT)
ENDSTRUCT

BEGINARRAY_PART (CBCH_1_14_CONTENT, 23)
        0x00,
        0x00, 0x00,
        0x00, 0x0E,
        0x00,
        0x01,
        0xAA, 0xAB, 0xAC, 0xAD,
        0xAE, 0xAF, 0xB0, 0xB1,
        0xB2, 0xB3, 0xB4, 0xB5,
        0xB6, 0xB7, 0xB8, 0xB9
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", NULL_MESSAGE)
        SET_COMP ("content", NULL_MESSAGE_CONTENT)
```

```
ENDSTRUCT

BEGINARRAY_PART (NULL_MESSAGE_CONTENT, 23)
        0x0F,
        0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", SCHEDULE_1_A)
        SET_COMP ("content", SCHEDULE_1_A_CONTENT)
ENDSTRUCT

BEGINARRAY_PART (SCHEDULE_1_A_CONTENT, 23)
        0x08,
        0x01, 0x12,
        0x12, 0x04, 0x80,
        0x00, 0x00, 0x00,
        0x80, 0x05,
        0x41,
        0x80, 0x07,
        0x41,
        0x40,
        0x80, 0x03,
        0x40, 0x40, 0x40, 0x40, 0x40
ENDARRAY

/* unscheduled schedule msg
        beg_sched: 11
        end_sched: 18
        msg map:    4, msg_id 5 wrong msg_id    -> not read
                    7, optional, read advised   -> read
                    14, msg_id 7                -> read
                    17 optional, read advised   -> read
if old msgs are also read:
        msg map:    2, msg_id 3                 -> read
                    16, msg_id 8 wrong id               -> not read
                    18, repeat of 2                     -> read
*/


BEGIN_PSTRUCT ("l2_frame", SCHEDULE_1_B)
        SET_COMP ("content", SCHEDULE_1_B_CONTENT)
ENDSTRUCT

BEGINARRAY_PART (SCHEDULE_1_B_CONTENT, 23)
        0x08,
        0x0B, 0x12,
        0x12, 0x04, 0x80,
        0x00, 0x00, 0x00,
```

```
        0x80, 0x05,
        0x41,
        0x80, 0x07,
        0x41,
        0x40,
        0x80, 0x03,
        0x40, 0x40, 0x40, 0x40, 0x40
ENDARRAY

/*
```

0x01	Second block
0xBA, ...	Content

```
*/

BEGIN_PSTRUCT ("l2_frame", CBCH_2)
        SET_COMP ("content", CBCH_2_CONTENT)
ENDSTRUCT

BEGINARRAY_PART (CBCH_2_CONTENT, 23)
        0x01,
        0xBA, 0xBB, 0xBC, 0xBD,
        0xBE, 0xBF, 0xC0, 0xC1,
        0xC2, 0xC3, 0xC4, 0xC5,
        0xC6, 0xC7, 0xC8, 0xC9,
        0xCA, 0xCB, 0xCC, 0xCD,
        0xCE, 0xCF
ENDARRAY

BEGIN_PSTRUCT ("l2_frame", SCHEDULE_2)
        SET_COMP ("content", SCHEDULE_2_CONTENT)
ENDSTRUCT

BEGINARRAY_PART (SCHEDULE_2_CONTENT, 23)
        0x01,
        0x40, 0x40, 0x40, 0x40, 0x40,
        0x80, 0x08,
        0x02,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B
ENDARRAY

/*
```

0x02	third block
0xD0, ...	content

```
*/

BEGIN_PSTRUCT ("l2_frame", CBCH_3)
        SET_COMP ("content", CBCH_3_CONTENT)
ENDSTRUCT

BEGINARRAY_PART (CBCH_3_CONTENT, 23)
        0x02,
```

```
        0xD0, 0xD1, 0xD2, 0xD3,
        0xD4, 0xD5, 0xD6, 0xD7,
        0xD8, 0xD9, 0xDA, 0xDB,
        0xDC, 0xDD, 0xDE, 0xDF,
        0xE0, 0xE1, 0xE2, 0xE3,
        0xE4, 0xE5
ENDARRAY

BEGIN_PSTRUCT ("l2_frame", SCHEDULE_3)
        SET_COMP ("content", SCHEDULE_3_CONTENT)
ENDSTRUCT

BEGINARRAY_PART (SCHEDULE_3_CONTENT, 23)
        0x02,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B
ENDARRAY

/*
```

0x03	fourth block
0xE6, ...	content

```
*/

BEGIN_PSTRUCT ("l2_frame", CBCH_4)
        SET_COMP ("content", CBCH_4_CONTENT)
ENDSTRUCT

BEGINARRAY_PART (CBCH_4_CONTENT, 23)
        0x03,
        0xE6, 0xE7, 0xE8, 0xE9,
        0xEA, 0xEB, 0xEC, 0xED,
        0xEE, 0xEF, 0xF0, 0xF1,
        0xF2, 0xF3, 0xF4, 0xF5,
        0xF6, 0xF7, 0xF8, 0xF9,
        0xFA, 0xFB
ENDARRAY

BEGIN_PSTRUCT ("l2_frame", SCHEDULE_4)
        SET_COMP ("content", SCHEDULE_4_CONTENT)
ENDSTRUCT

BEGINARRAY_PART (SCHEDULE_4_CONTENT, 23)
        0x13,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B
ENDARRAY

/*
```

```
0x58,          Length of field
0x00, 0x00     serial number
0x00, 0x05     message identifier
0x00           data coding scheme
0x01           Page
0xAA, ...      Content
*/
BEGINARRAY (CBCH_MSG_3, 88)
        0x00, 0x00,
        0x00, 0x03,
        0x00,
        0x01,
        0xAA, 0xAB, 0xAC, 0xAD,
        0xAE, 0xAF, 0xB0, 0xB1,
        0xB2, 0xB3, 0xB4, 0xB5,
        0xB6, 0xB7, 0xB8, 0xB9,
        0xBA, 0xBB, 0xBC, 0xBD,
        0xBE, 0xBF, 0xC0, 0xC1,
        0xC2, 0xC3, 0xC4, 0xC5,
        0xC6, 0xC7, 0xC8, 0xC9,
        0xCA, 0xCB, 0xCC, 0xCD,
        0xCE, 0xCF,
        0xD0, 0xD1, 0xD2, 0xD3,
        0xD4, 0xD5, 0xD6, 0xD7,
        0xD8, 0xD9, 0xDA, 0xDB,
        0xDC, 0xDD, 0xDE, 0xDF,
        0xE0, 0xE1, 0xE2, 0xE3,
        0xE4, 0xE5,
        0xE6, 0xE7, 0xE8, 0xE9,
        0xEA, 0xEB, 0xEC, 0xED,
        0xEE, 0xEF, 0xF0, 0xF1,
        0xF2, 0xF3, 0xF4, 0xF5,
        0xF6, 0xF7, 0xF8, 0xF9,
        0xFA, 0xFB
ENDARRAY

BEGINARRAY (CBCH_MSG_7, 88)
        0x00, 0x00,
        0x00, 0x07,
        0x00,
        0x01,
        0xAA, 0xAB, 0xAC, 0xAD,
        0xAE, 0xAF, 0xB0, 0xB1,
        0xB2, 0xB3, 0xB4, 0xB5,
        0xB6, 0xB7, 0xB8, 0xB9,
        0xBA, 0xBB, 0xBC, 0xBD,
        0xBE, 0xBF, 0xC0, 0xC1,
        0xC2, 0xC3, 0xC4, 0xC5,
        0xC6, 0xC7, 0xC8, 0xC9,
        0xCA, 0xCB, 0xCC, 0xCD,
        0xCE, 0xCF,
        0xD0, 0xD1, 0xD2, 0xD3,
        0xD4, 0xD5, 0xD6, 0xD7,
        0xD8, 0xD9, 0xDA, 0xDB,
```

```
        0xDC, 0xDD, 0xDE, 0xDF,
        0xE0, 0xE1, 0xE2, 0xE3,
        0xE4, 0xE5,
        0xE6, 0xE7, 0xE8, 0xE9,
        0xEA, 0xEB, 0xEC, 0xED,
        0xEE, 0xEF, 0xF0, 0xF1,
        0xF2, 0xF3, 0xF4, 0xF5,
        0xF6, 0xF7, 0xF8, 0xF9,
        0xFA, 0xFB
ENDARRAY


BEGINARRAY(CBCH_MSG_7_B, 88)
        0x00, 0x01,
        0x00, 0x07,
        0x00,
        0x01,
        0xAA, 0xAB, 0xAC, 0xAD,
        0xAE, 0xAF, 0xB0, 0xB1,
        0xB2, 0xB3, 0xB4, 0xB5,
        0xB6, 0xB7, 0xB8, 0xB9,
        0xBA, 0xBB, 0xBC, 0xBD,
        0xBE, 0xBF, 0xC0, 0xC1,
        0xC2, 0xC3, 0xC4, 0xC5,
        0xC6, 0xC7, 0xC8, 0xC9,
        0xCA, 0xCB, 0xCC, 0xCD,
        0xCE, 0xCF,
        0xD0, 0xD1, 0xD2, 0xD3,
        0xD4, 0xD5, 0xD6, 0xD7,
        0xD8, 0xD9, 0xDA, 0xDB,
        0xDC, 0xDD, 0xDE, 0xDF,
        0xE0, 0xE1, 0xE2, 0xE3,
        0xE4, 0xE5,
        0xE6, 0xE7, 0xE8, 0xE9,
        0xEA, 0xEB, 0xEC, 0xED,
        0xEE, 0xEF, 0xF0, 0xF1,
        0xF2, 0xF3, 0xF4, 0xF5,
        0xF6, 0xF7, 0xF8, 0xF9,
        0xFA, 0xFB
ENDARRAY


BEGINARRAY (CBCH_MSG_11, 88)
        0x00, 0x00,
        0x00, 0x0B,
        0x00,
        0x01,
        0xAA, 0xAB, 0xAC, 0xAD,
        0xAE, 0xAF, 0xB0, 0xB1,
        0xB2, 0xB3, 0xB4, 0xB5,
        0xB6, 0xB7, 0xB8, 0xB9,
        0xBA, 0xBB, 0xBC, 0xBD,
        0xBE, 0xBF, 0xC0, 0xC1,
        0xC2, 0xC3, 0xC4, 0xC5,
```

```
        0xC6, 0xC7, 0xC8, 0xC9,
        0xCA, 0xCB, 0xCC, 0xCD,
        0xCE, 0xCF,
        0xD0, 0xD1, 0xD2, 0xD3,
        0xD4, 0xD5, 0xD6, 0xD7,
        0xD8, 0xD9, 0xDA, 0xDB,
        0xDC, 0xDD, 0xDE, 0xDF,
        0xE0, 0xE1, 0xE2, 0xE3,
        0xE4, 0xE5,
        0xE6, 0xE7, 0xE8, 0xE9,
        0xEA, 0xEB, 0xEC, 0xED,
        0xEE, 0xEF, 0xF0, 0xF1,
        0xF2, 0xF3, 0xF4, 0xF5,
        0xF6, 0xF7, 0xF8, 0xF9,
        0xFA, 0xFB
ENDARRAY


BEGINARRAY (CBCH_MSG_12, 88)
        0x00, 0x00,
        0x00, 0x0C,
        0x00,
        0x01,
        0xAA, 0xAB, 0xAC, 0xAD,
        0xAE, 0xAF, 0xB0, 0xB1,
        0xB2, 0xB3, 0xB4, 0xB5,
        0xB6, 0xB7, 0xB8, 0xB9,
        0xBA, 0xBB, 0xBC, 0xBD,
        0xBE, 0xBF, 0xC0, 0xC1,
        0xC2, 0xC3, 0xC4, 0xC5,
        0xC6, 0xC7, 0xC8, 0xC9,
        0xCA, 0xCB, 0xCC, 0xCD,
        0xCE, 0xCF,
        0xD0, 0xD1, 0xD2, 0xD3,
        0xD4, 0xD5, 0xD6, 0xD7,
        0xD8, 0xD9, 0xDA, 0xDB,
        0xDC, 0xDD, 0xDE, 0xDF,
        0xE0, 0xE1, 0xE2, 0xE3,
        0xE4, 0xE5,
        0xE6, 0xE7, 0xE8, 0xE9,
        0xEA, 0xEB, 0xEC, 0xED,
        0xEE, 0xEF, 0xF0, 0xF1,
        0xF2, 0xF3, 0xF4, 0xF5,
        0xF6, 0xF7, 0xF8, 0xF9,
        0xFA, 0xFB
ENDARRAY


BEGINARRAY (CBCH_MSG_13, 88)
        0x00, 0x00,
        0x00, 0x0D,
        0x00,
        0x01,
        0xAA, 0xAB, 0xAC, 0xAD,
```

```
        0xAE, 0xAF, 0xB0, 0xB1,
        0xB2, 0xB3, 0xB4, 0xB5,
        0xB6, 0xB7, 0xB8, 0xB9,
        0xBA, 0xBB, 0xBC, 0xBD,
        0xBE, 0xBF, 0xC0, 0xC1,
        0xC2, 0xC3, 0xC4, 0xC5,
        0xC6, 0xC7, 0xC8, 0xC9,
        0xCA, 0xCB, 0xCC, 0xCD,
        0xCE, 0xCF,
        0xD0, 0xD1, 0xD2, 0xD3,
        0xD4, 0xD5, 0xD6, 0xD7,
        0xD8, 0xD9, 0xDA, 0xDB,
        0xDC, 0xDD, 0xDE, 0xDF,
        0xE0, 0xE1, 0xE2, 0xE3,
        0xE4, 0xE5,
        0xE6, 0xE7, 0xE8, 0xE9,
        0xEA, 0xEB, 0xEC, 0xED,
        0xEE, 0xEF, 0xF0, 0xF1,
        0xF2, 0xF3, 0xF4, 0xF5,
        0xF6, 0xF7, 0xF8, 0xF9,
        0xFA, 0xFB
ENDARRAY


BEGIN_SHORT_ARRAY_PART (ARFCN_23_14_124_1, 4)
        ARFCN_23, ARFCN_14, ARFCN_124, ARFCN_1
ENDARRAY


BEGINARRAY_PART (RXLEV_23_14_124_1, 4)
        56, 44, 25, 21
ENDARRAY


BEGIN_SHORT_ARRAY_PART (ARFCN_637_580_885_512, 4)
        ARFCN_637,
        ARFCN_580,
        ARFCN_885,
        ARFCN_512
ENDARRAY


BEGINARRAY_PART (RXLEV_637_580_885_512,4)
        56, 44, 25, 21
ENDARRAY


BEGIN_SHORT_ARRAY_PART (ARFCN_637_580_810_512, 4)
        ARFCN_637,
        ARFCN_580,
        ARFCN_810,
        ARFCN_512
ENDARRAY
```

```
BEGINARRAY_PART (RXLEV_637_580_810_512,4)
        56, 44, 25, 12
ENDARRAY


BEGIN_SHORT_ARRAY_PART (ARFCN_DUAL, 8)
        ARFCN_23,
        ARFCN_637,
        ARFCN_14,
        ARFCN_580,
        ARFCN_124,
        ARFCN_885,
        ARFCN_1,
        ARFCN_512
ENDARRAY


BEGINARRAY_PART (RXLEV_DUAL, 8)
        56, 55, 44, 43, 25, 23, 21, 11
ENDARRAY


BEGIN_SHORT_ARRAY_PART (ARFCN_EGSM, 8)
        0,
        ARFCN_975,
        ARFCN_1023,
        ARFCN_580,
        ARFCN_124,
        ARFCN_885,
        ARFCN_1,
        ARFCN_512
ENDARRAY


BEGINARRAY (RXLEV_EGSM, 8)
        56, 55, 44, 43, 25, 23, 12, 11
ENDARRAY

/*
```

0x59	l2 pseudo length (=22 Byte)
0x06	protocol discriminator, transaction identifier
0x19	message type
0x00, ...	cell channel description
0x00, ...	
0x00,	rach control parameter
0x2B	rest octet

```
*/
BEGIN_PSTRUCT("l2_frame", L2_SYS_INFO_1)
        SET_COMP("content", L2_SYS_INFO_1_ARRAY)
```

```
ENDSTRUCT

BEGINARRAY (L2_SYS_INFO_1_ARRAY, 23)
        0x59,
        0x06,
        0x19,
        0x00, 0x04, 0x00, 0x00, 0x00, 0x02, 0x00, 0x01,
        0x00, 0x08, 0x00, 0x00, 0x81, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x40,
        0x2B
ENDARRAY


BEGIN_PSTRUCT("l2_frame", L2_SYS_INFO_1_NEW)
        SET_COMP("content", L2_SYS_INFO_1_NEW_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_SYS_INFO_1_NEW_ARRAY,23)
        0x59,
        0x06,
        0x19,
        0x00, 0x04, 0x00, 0x00, 0x00, 0x02, 0x00, 0x01,
        0x00, 0x18, 0x00, 0x00, 0x81, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x40,
        0x2B
ENDARRAY

/*
```

0x59	l2 pseudo length (=22 Byte)
0x06	protocol discriminator, transaction identifier
0x1A	message type
0x00, ...	neighbour cell description
0x00, ...	
0x01,	ncc permitted
0x00,	rach control parameter

```
*/
BEGIN_PSTRUCT("l2_frame", L2_SYS_INFO_2)
        SET_COMP("content", L2_SYS_INFO_2_ARRAY)
ENDSTRUCT

BEGINARRAY(L2_SYS_INFO_2_ARRAY,23)
        0x59,
        0x06,
        0x1A,
        0x00, 0x00, 0x00, 0x04, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x80, 0x00, 0x04,
        0x01,
        0x00, 0x00, 0x40
ENDARRAY
```

```
/*
```

0x59	l2 pseudo length (=22 Byte)
0x06	protocol discriminator, transaction identifier
0x1B	message type
0x37,0x48	cell identity
0x21, ...	location area identification
0x28, ...	control channel description
0x5F	cell options BCCH
0x42, 0x56	cell selection parameter
0x00,	rach control parameter
0x2B	rest octets

```
*/
BEGIN_PSTRUCT("l2_frame", L2_SYS_INFO_3)
        SET_COMP("content", L2_SYS_INFO_3_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_SYS_INFO_3_ARRAY, 23)
        0x59,
        0x06,
        0x1B,
        0x37, 0x48,
        0x21, 0xF3, 0x33, 0x21, 0x47,
        0x28, 0x02, 0x06,
        0x5F,
        0x42, 0x56,
        0x00, 0x00, 0x40,
        0x2B, 0x2B, 0x2B, 0x2B
ENDARRAY

/*
```

0x59	l2 pseudo length (=22 Byte)
0x06	protocol discriminator, transaction identifier
0x1C	message type
0x21, ...	location area identification
0x42, 0x56	cell selection parameter
0x00,	rach control parameter
0x2B	rest octets

```
*/

BEGIN_PSTRUCT("l2_frame", L2_SYS_INFO_4)
        SET_COMP("content", L2_SYS_INFO_4_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_SYS_INFO_4_ARRAY, 23)
        0x59,
        0x06,
        0x1C,
```

```
        0x21, 0xF3, 0x33, 0x21, 0x47,
        0x42, 0x56,
        0x00, 0x00, 0x40,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B
ENDARRAY


BEGIN_PSTRUCT("l2_frame", L2_SYS_INFO_4_ACS)
        SET_COMP("content", L2_SYS_INFO_4_ACS_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_SYS_INFO_4_ACS_ARRAY, 23)
        0x59,
        0x06,
        0x1C,
        0x21, 0xF3, 0x33, 0x21, 0x47,
        0x42, 0xD6,
        0x00, 0x00, 0x40,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B
ENDARRAY


BEGIN_PSTRUCT("l2_frame", L2_SYS_INFO_5)
        SET_COMP("content", L2_SYS_INFO_5_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_SYS_INFO_5_ARRAY, 23)
        0xFF, 0xAA,
        0x03, 0x03, 0x01,
        0x06,
        0x1D,
        0x00, 0x04, 0x00, 0x00, 0x00, 0x02, 0x00, 0x01,
        0x00, 0x08, 0x00, 0x00, 0x81, 0x00, 0x00, 0x00
ENDARRAY


BEGIN_PSTRUCT("l2_frame", L2_SYS_INFO_5BIS)
        SET_COMP("content", L2_SYS_INFO_5BIS_ARRAY)
ENDSTRUCT


BEGINARRAY (L2_SYS_INFO_5BIS_ARRAY,23)
        0xFF, 0xAA,
        0x03, 0x03, 0x01,
        0x06,
        0x05,
        0x00, 0x04, 0x00, 0x00, 0x00, 0x02, 0x00, 0x01,
        0x00, 0x08, 0x00, 0x00, 0x81, 0x00, 0x00, 0x00
ENDARRAY
```

```
BEGIN_PSTRUCT("l2_frame", L2_SYS_INFO_6)
        SET_COMP("content", L2_SYS_INFO_6_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_SYS_INFO_6_ARRAY,23)
        0xFF, 0xAA,
        0x03, 0x03, 0x01,
        0x06,
        0x1E,
        0x00, 0x04, 0x00, 0x00, 0x00, 0x02, 0x00, 0x01,
        0x00, 0x08, 0x00, 0x00, 0x81, 0x00, 0x00, 0x00
ENDARRAY


BEGIN_PSTRUCT("l2_frame", L2_CHANGED_SYS_INFO_6)
        SET_COMP("content", L2_CHANGED_SYS_INFO_6_ARRAY)
ENDSTRUCT


BEGINARRAY (L2_CHANGED_SYS_INFO_6_ARRAY,23)
        0xFF, 0xAA,
        0x03, 0x03, 0x01,
        0x06,
        0x1E,
        0x01, 0x04, 0x00, 0x00, 0x00, 0x02, 0x00, 0x01,
        0x00, 0x08, 0x00, 0x00, 0x81, 0x00, 0x00, 0x00
ENDARRAY


BEGIN_PSTRUCT("l2_frame", L2_SYS_INFO_7)
        SET_COMP("content", L2_SYS_INFO_7_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_SYS_INFO_7_ARRAY, 23)
        0x59,
        0x06,
        0x1F,
        0x2b, 0x2b, 0x2b, 0x2b, 0x2b,
        0x2b, 0x2b,
        0x2b, 0x2b, 0x2b,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B
ENDARRAY


BEGIN_PSTRUCT("l2_frame", L2_SYS_INFO_8)
        SET_COMP("content", L2_SYS_INFO_8_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_SYS_INFO_8_ARRAY, 23)
        0x59,
        0x06,
        0x18,
        0x2b, 0x2b, 0x2b, 0x2b, 0x2b,
```

```
        0x2b, 0x2b,
        0x2b, 0x2b, 0x2b,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B
ENDARRAY


BEGIN_PSTRUCT("l2_frame", L2_I_SMS)
        SET_COMP("content", L2_I_SMS_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_I_SMS_ARRAY,12)
        0xFF, 0xAA,
        0x0F,
        0x02,
        0x19,
        0x3A, 0x3B, 0x3C, 0x3D, 0x3E, 0x3F,
        0x2B
ENDARRAY


BEGIN_MSTRUCT ("loc_area_ident", LOC_AREA_IDENT_2)
                SET_COMP ("mcc", MCC_2)
                SET_COMP ("mnc", MNC_2)
                SET_COMP ("lac", 0x0200)
ENDSTRUCT

BEGINARRAY (MCC_2, 3)
                0, 0, 0
ENDARRAY

BEGINARRAY (MNC_2, 3)
                0, 0, 0
ENDARRAY

BEGIN_MSTRUCT ("cell_opt_sacch", CELL_OPT_SACCH_1)
                SET_COMP ("dtx2_s", 0)
                SET_COMP ("pow_ctrl", POW_CTRL_NO)
                SET_COMP ("dtx_s", S_DTX_F_MAYUSE_H_DONTUSE)
                SET_COMP ("rlt", 1)
ENDSTRUCT


BEGIN_MSTRUCT ("si6_rest_oct", SI6_REST_OCT_1)
        SET_COMP ("pch_nch_info", PCH_NCH_INFO_1)
        SET_COMP ("vbs_vgcs_opt", VBS_VGCS_OPT_1)
ENDSTRUCT

BEGIN_MSTRUCT ("pch_nch_info", PCH_NCH_INFO_1)
        SET_COMP ("pch_restruct", PCH_RESTRUCT_NO)
        SET_COMP ("nln_sacch", 0)
        SET_COMP ("call_prio", CALL_PRIO_LEV_3)
        SET_COMP ("nln_status", 0)
ENDSTRUCT
```

```
BEGIN_MSTRUCT ("vbs_vgcs_opt",  VBS_VGCS_OPT_1)
        SET_COMP ("inband_not", IN_BAND_NOT_NCH)
        SET_COMP ("inband_pag", IN_BAND_PAG_PCH)
ENDSTRUCT

BEGINARRAY (CHANGED_SYS_INFO_6, 23)
        0x90, 0x00,
        0x08, 0x00,
        0x00,
        0x06,
        0x1E,
        0x01, 0x04, 0x00, 0x00, 0x00, 0x02, 0x00, 0x01,
        0x00, 0x08, 0x00, 0x00, 0x81, 0x00, 0x00, 0x00
ENDARRAY

BEGINARRAY (I_SMS, 16)
        0xA8, 0x00,
        0x10, 0x00,
        0xFF, 0xAA,
        0x0F,
        0x02,
        0x19,
        0x3A, 0x3B, 0x3C, 0x3D, 0x3E, 0x3F,
        0x2B
ENDARRAY

/*
```

0xB0,0x00	Length in bits
0x08, 0x00	Offset in bits
0x59	l2 pseudo length (=22 Byte)
0x06	Protocol discriminator, transaction identifier
0x19	Message type
0x00, ...	cell channel description
0x00, ...	
0x00,	rach control parameter
0x2B	rest octet

```
*/
SET_BITBUF ("cell_chan_desc", CELL_CHAN_DESC_1, 128)
        0x00, 0x04, 0x00, 0x00, 0x00, 0x02, 0x00, 0x01,
        0x00, 0x08, 0x00, 0x00, 0x81, 0x00, 0x00, 0x00
ENDBITBUF

BEGIN_MSTRUCT ("rach_ctrl", RACH_CTRL_1)
                SET_COMP ("max_retrans",        MAX_RETRANS_1)
                SET_COMP ("tx_integer",         SPREAD_TRANS_3)
                SET_COMP ("cell_bar_access",    BARRED_NO)
                SET_COMP ("re",                 REESTAB_YES)
                SET_COMP ("ac",                 ACC_0005)
ENDSTRUCT
```

```
SET_BITBUF ("cell_chan_desc", CELL_CHAN_DESC_1_NEW, 128)
        0x00, 0x04, 0x00, 0x00, 0x00, 0x02, 0x00, 0x01,
        0x00, 0x18, 0x00, 0x00, 0x81, 0x00, 0x00, 0x00
ENDBITBUF

/*
```

0xB0,0x00	length in bits
0x08, 0x00	offset in bits
0x59	l2 pseudo length (=22 Byte)
0x06	protocol discriminator, transaction identifier
0x1A	message type
0x00, ...	neighbour cell description
0x00, ...	
0x01,	ncc permitted
0x00,	rach control parameter

```
*/

SET_BITBUF ("neigh_cell_desc", NEIGH_CELL_DESC_1, 128)
        0x00, 0x00, 0x00, 0x04, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x80, 0x00, 0x04
ENDBITBUF

SET_BITBUF ("neigh_cell_desc", NEIGH_CELL_DESC_2, 128)
        0x00, 0x04, 0x00, 0x00, 0x00, 0x02, 0x00, 0x01,
        0x00, 0x08, 0x00, 0x00, 0x81, 0x00, 0x00, 0x00
ENDBITBUF

/*
```

0xB0,0x00	length in bits
0x08, 0x00	offset in bits
0x59	l2 pseudo length (=22 Byte)
0x06	protocol discriminator, transaction identifier
0x1B	message type
0x37,0x48	cell identity
0x21, ...	location area identification
0x28, ...	control channel description
0x5F	cell options BCCH
0x42, 0x56	cell selection parameter
0x00,	rach control parameter
0x2B	rest octets

```
*/

BEGIN_MSTRUCT ("loc_area_ident", LOC_AREA_IDENT_1)
```

```
                SET_COMP ("mcc", MCC_1)
                SET_COMP ("mnc", MNC_1)
                SET_COMP ("lac", 0x2147)
ENDSTRUCT

BEGINARRAY (MCC_1, 3)
                1,2,3
ENDARRAY

BEGINARRAY (MNC_1, 2)
                3,3
ENDARRAY


BEGIN_MSTRUCT ("ctrl_chan_desc", CTRL_CHAN_DESC_1)
                SET_COMP ("att", CCD_ATT_NO)
                SET_COMP ("bs_ag_blks_res", 5   )
                SET_COMP ("ccch_conf", CCD_CCCH_1_NOT_COMB )
                SET_COMP ("bs_pa_mfrms", 2)
                SET_COMP ("t3212", 6)
ENDSTRUCT


BEGIN_MSTRUCT ("cell_opt_bcch", CELL_OPT_BCCH_1)
                SET_COMP ("pow_ctrl",  POW_CTRL_YES)
                SET_COMP ("dtx_b", B_DTX_SHALL_USE)
                SET_COMP ("rlt", 15)
ENDSTRUCT


BEGIN_MSTRUCT ("cell_select", CELL_SELECT_1)
                SET_COMP ("cell_resel_hyst", CELL_HYST_4_DB)
                SET_COMP ("ms_txpwr_max_cch", 2)
                SET_COMP ("acs", ACS_USE_SI4)
                SET_COMP ("neci", NECI_YES)
                SET_COMP ("rxlev_access_min", 22)
ENDSTRUCT


BEGIN_MSTRUCT ("cell_select", CELL_SELECT_2)
                SET_COMP ("cell_resel_hyst", CELL_HYST_4_DB)
                SET_COMP ("ms_txpwr_max_cch", 2)
                SET_COMP ("acs", ACS_USE_SI7)
                SET_COMP ("neci", NECI_YES)
                SET_COMP ("rxlev_access_min", 22)
ENDSTRUCT


BEGIN_MSTRUCT ("si7_rest_oct", SI7_REST_OCT_1)
                SKIP_COMP ("opt_sel_par")
                SKIP_COMP ("pow_offs")
                SKIP_COMP ("gprs_indic")
                SKIP_COMP ("lsa_param")
                SKIP_COMP ("cell_ident")
```

```
        SKIP_COMP ("lsa_id_info")
ENDSTRUCT


BEGIN_MSTRUCT ("si8_rest_oct", SI8_REST_OCT_1)
        SKIP_COMP ("opt_sel_par")
        SKIP_COMP ("pow_offs")
        SKIP_COMP ("gprs_indic")
        SKIP_COMP ("lsa_param")
        SKIP_COMP ("cell_ident")
        SKIP_COMP ("lsa_id_info")
ENDSTRUCT

/*
```

0x19	l2 pseudo length (= 6 Byte)
0x06	protocol discriminator, transaction identifier
0x21	message type
PAGING_NORM	page mode normal
0x00	not empty mobile identity

```
*/
BEGIN_PSTRUCT("l2_frame", L2_PAGING_REQ_1)
        SET_COMP("content", L2_PAGING_REQ_1_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAGING_REQ_1_ARRAY, 23)
        0x11,
        0x06,
        0x21,
        PAGING_NORM,
        0x00,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B
ENDARRAY

/*
```

0x19	l2 pseudo length (= 6 Byte)
0x06	protocol discriminator, transaction identifier
0x21	message type
PAGING_SAME	page mode same as before
0x00	not empty mobile identity

```
*/

BEGIN_PSTRUCT("l2_frame", L2_PAGING_REQ_1_SAB)
        SET_COMP("content", L2_PAGING_REQ_1_SAB_ARRAY)
ENDSTRUCT
```

```
BEGINARRAY (L2_PAGING_REQ_1_SAB_ARRAY, 23)
        0x11,
        0x06,
        0x21,
        PAGING_SAME,
        0x00,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B
ENDARRAY

/*
```

0x19	l2 pseudo length (= 6 Byte)
0x06	protocol discriminator, transaction identifier
0x21	message type
PAGING_EXT	page mode extended
0x00	not empty mobile identity

```
*/
BEGIN_PSTRUCT("l2_frame", L2_PAGING_REQ_1_EXT)
        SET_COMP("content", L2_PAGING_REQ_1_EXT_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAGING_REQ_1_EXT_ARRAY, 23)
        0x11,
        0x06,
        0x21,
        PAGING_EXT,
        0x00,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B
ENDARRAY

/*
```

0x19	l2 pseudo length (= 6 Byte)
0x06	protocol discriminator, transaction identifier
0x21	message type
PAGING_REORG	page mode reorganization
0x00	not empty mobile identity

```
*/

BEGIN_PSTRUCT("l2_frame", L2_PAGING_REO_1)
        SET_COMP("content", L2_PAGING_REO_1_ARRAY)
ENDSTRUCT


BEGIN_PSTRUCT ("l2_frame", L2_PAGING_REQ_1_REO)
```

```
        SET_COMP ("content", L2_PAGING_REQ_1_REO_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAGING_REQ_1_REO_ARRAY, 23)
        0x11,
        0x06,
        0x21,
        PAGING_REORG,
        0x00,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B
ENDARRAY

/*
```

0xB0,0x00	length in bits
0x08, 0x00	offset in bits
0x19	l2 pseudo length (= 6 Byte)
0x06	protocol discriminator, transaction identifier
0x21	message type
0x00	page mode normal
0x00	not empty mobile identity

```
*/
BEGINARRAY (PAGING_REQ_1, 9)
        0xB0, 0x00,
        0x08, 0x00,
        0x19,
        0x06,
        0x21,
        0x00,
        0x00
ENDARRAY

/*
```

0xB0,0x00	length in bits
0x08, 0x00	offset in bits
0x19	l2 pseudo length (= 6 Byte)
0x06	protocol discriminator, transaction identifier
0x21	message type
0x01	page mode extended
0x00	not empty mobile identity

```
*/
BEGINARRAY (PAGING_REQ_1_EXT, 9)
        0xB0, 0x00,
        0x08, 0x00,
        0x19,
```

```
        0x06,
        0x21,
        0x01,
        0x00
ENDARRAY

/*
```

0xB0,0x00	length in bits
0x08, 0x00	offset in bits
0x19	l2 pseudo length (= 6 Byte)
0x06	protocol discriminator, transaction identifier
0x21	message type
0x02	page mode reorganization
0x00	empty mobile identity

```
*/
BEGINARRAY (PAGING_REQ_1_REO, 9)
        0xB0, 0x00,
        0x08, 0x00,
        0x19,
        0x06,
        0x21,
        0x02,
        0x00
ENDARRAY

/*
```

0xB0,0x00	length in bits
0x08, 0x00	offset in bits
0x19	l2 pseudo length (= 6 Byte)
0x06	protocol discriminator, transaction identifier
0x21	message type
0x03	page mode same as before
0x00	empty mobile identity

```
*/
BEGINARRAY (PAGING_REQ_1_SAB, 9)
        0xB0, 0x00,
        0x08, 0x00,
        0x19,
        0x06,
        0x21,
        0x03,
        0x00
ENDARRAY

/*
```

0x11	l2 pseudo length (= 4 Byte)

```
0x06        protocol discriminator, transaction
            identifier
0x21        message type
0x00        page mode normal
0x00        empty mobile identity
*/
BEGIN_PSTRUCT("l2_frame", L2_PAG_1_EMPTY)
        SET_COMP("content", L2_PAG_1_EMPTY_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_1_EMPTY_ARRAY, 23)
        0x11,
        0x06,
        0x21,
        0x00,
        0x00,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B
ENDARRAY

/*
0x31        l2 pseudo length (= 12 Bytes)
0x06        protocol discriminator, transaction
            identifier
0x21        message type
0x00        page mode normal
0x09        mobile identity 1
*/
BEGIN_PSTRUCT("l2_frame", L2_PAG_1_I1_A)
        SET_COMP("content", L2_PAG_1_I1_A_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_1_I1_A_ARRAY, 23)
        0x31,
        0x06,
        0x21,
        0x00,
        0x08,
        0x09, 0x10, 0x10, 0x83, 0x32,
        0x03, 0x95, 0x54, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B
ENDARRAY


/*
0x59        l2 pseudo length (= 22 Bytes)
0x06        Protocol discriminator, transaction
            identifier
0x21        Message type
0x00        Page mode normal
```

```
0x09        Mobile identity 1
*/
BEGIN_PSTRUCT("l2_frame", L2_PAG_1_I2_A)
        SET_COMP("content", L2_PAG_1_I2_A_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_1_I2_A_ARRAY, 23)
        0x59,
        0x06,
        0x21,
        0x00,
        0x08,
        0x09, 0x10, 0x10, 0x83, 0x23,
        0x03, 0x95, 0x54, 0x17, 0x08,
        0x09, 0x10, 0x10, 0x83, 0x32,
        0x03, 0x95, 0x54
ENDARRAY

/*
```

0x1D	l2 pseudo length (= 7 Bytes)
0x06	Protocol discriminator, transaction identifier
0x21	Message type
0x23	normal page mode, TCH F
0x09	Mobile identity 1

```
*/
BEGIN_PSTRUCT("l2_frame", L2_PAG_1_T1_T)
        SET_COMP("content", L2_PAG_1_T1_T_ARRAY)
ENDSTRUCT

BEGINARRAY(L2_PAG_1_T1_T_ARRAY, 23)
        0x1D,
        0x06,
        0x21,
        0x20,
        0x05,
        0xF4, 0x05, 0x22, 0x33, 0x66,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B
ENDARRAY


/*
```

0x41	l2 pseudo length (= 16 Bytes)
0x06	Protocol discriminator, transaction identifier
0x21	Message type
0x80	normal page mode , TCH F
0x09	Mobile identity 1

```
*/
BEGIN_PSTRUCT("l2_frame", L2_PAG_1_T2_T)
        SET_COMP("content", L2_PAG_1_T2_T_ARRAY)
```

```
ENDSTRUCT

BEGINARRAY (L2_PAG_1_T2_T_ARRAY, 23)
        0x41,
        0x06,
        0x21,
        0x80,
        0x05,
        0xF4, 0x06, 0x22, 0x33, 0x66,
        0x17, 0x05, 0xF4, 0x05, 0x22,
        0x33, 0x66, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B
ENDARRAY

/*
```

0x31	l2 pseudo length (= 12 Bytes)
0x06	Protocol discriminator, transaction identifier
0x21	Message type
0x01	page mode normal, SDCCH
0x09	Mobile identity 1

```
*/
BEGIN_PSTRUCT ("l2_frame", L2_PAG_1_I1_S)
        SET_COMP ("content", L2_PAG_1_I1_S_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_1_I1_S_ARRAY, 23)
        0x31,
        0x06,
        0x21,
        0x10,
        0x08,
        0x09, 0x10, 0x10, 0x83, 0x32,
        0x03, 0x95, 0x54, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B
ENDARRAY
/*
```

0x59	l2 pseudo length (= 22 Bytes)
0x06	Protocol discriminator, transaction identifier
0x21	Message type
0x04	Page mode normal, SDCCH
0x09	Mobile identity 1

```
*/
BEGIN_PSTRUCT ("l2_frame", L2_PAG_1_I2_S)
        SET_COMP ("content", L2_PAG_1_I2_S_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_1_I2_S_ARRAY, 23)
        0x59,
        0x06,
        0x21,
```

```
        0x40,
        0x08,
        0x09, 0x10, 0x10, 0x83, 0x23,
        0x03, 0x95, 0x54, 0x17, 0x08,
        0x09, 0x10, 0x10, 0x83, 0x32,
        0x03, 0x95, 0x54
ENDARRAY

/*
```

0x1D	l2 pseudo length (= 7 Bytes)
0x06	Protocol discriminator, transaction identifier
0x21	Message type
0x30	page mode normal, Dual
0x09	Mobile identity 1

```
*/
BEGIN_PSTRUCT ("l2_frame", L2_PAG_1_T1_D)
        SET_COMP ("content", L2_PAG_1_T1_D_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_1_T1_D_ARRAY, 23)
        0x1D,
        0x06,
        0x21,
        0x30,
        0x05,
        0xF4, 0x05, 0x22, 0x33, 0x66,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B
ENDARRAY

/*
```

0x41	l2 pseudo length (= 16 Bytes)
0x06	Protocol discriminator, transaction identifier
0x21	Message type
0xC0	page mode normal, Dual
0x09	Mobile identity 1

```
*/
BEGIN_PSTRUCT ("l2_frame", L2_PAG_1_T2_D)
        SET_COMP ("content", L2_PAG_1_T2_D_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_1_T2_D_ARRAY, 23)
        0x41,
        0x06,
        0x21,
        0xC0,
        0x05,
        0xF4, 0x06, 0x22, 0x33, 0x66,
        0x17, 0x05, 0xF4, 0x05, 0x22,
        0x33, 0x66, 0x2B, 0x2B, 0x2B,
```

```
        0x2B, 0x2B, 0x2B
ENDARRAY

/*
```

0x31	l2 pseudo length (= 12 Bytes)
0x06	Protocol discriminator, transaction identifier
0x21	Message type
0x01	page mode normal, SDCCH
0x09	Mobile identity 1

```
*/
BEGIN_PSTRUCT ("l2_frame", L2_PAG_1_WI1)
        SET_COMP ("content", L2_PAG_1_WI1_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_1_WI1_ARRAY, 23)
        0x31,
        0x06,
        0x21,
        0x10,
        0x08,
        0x09, 0x12, 0x10, 0x83, 0x32,
        0x03, 0x95, 0x54, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B
ENDARRAY

/*
```

0x59	l2 pseudo length (= 22 Bytes)
0x06	Protocol discriminator, transaction identifier
0x21	Message type
0x04	Page mode normal, SDCCH
0x09	Mobile identity 1

```
*/
BEGIN_PSTRUCT ("l2_frame", L2_PAG_1_WI2)
        SET_COMP ("content", L2_PAG_1_WI2_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_1_WI2_ARRAY, 23)
        0x59,
        0x06,
        0x21,
        0x40,
        0x08,
        0x09, 0x10, 0x10, 0x83, 0x23,
        0x03, 0x95, 0x54, 0x17, 0x08,
        0x09, 0x12, 0x10, 0x83, 0x32,
        0x03, 0x95, 0x54
ENDARRAY

/*
```

0x1D	l2 pseudo length (= 7 Bytes)

0x06	Protocol discriminator, transaction identifier
0x21	Message type
0x30	page mode normal, Dual
0x09	Mobile identity 1

```
*/
BEGIN_PSTRUCT ("l2_frame", L2_PAG_1_WT1)
        SET_COMP ("content", L2_PAG_1_WT1_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_1_WT1_ARRAY, 23)
        0x1D,
        0x06,
        0x21,
        0x30,
        0x05,
        0xF4, 0x06, 0x22, 0x33, 0x66,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B
ENDARRAY

/*
```

0x41	l2 pseudo length (= 16 Bytes)
0x06	Protocol discriminator, transaction identifier
0x21	Message type
0xC0	page mode normal, Dual
0x09	Mobile identity 1

```
*/
BEGIN_PSTRUCT ("l2_frame", L2_PAG_1_WT2)
        SET_COMP ("content", L2_PAG_1_WT2_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_1_WT2_ARRAY, 23)
        0x41,
        0x06,
        0x21,
        0xC0,
        0x05,
        0xF4, 0x06, 0x22, 0x33, 0x66,
        0x17, 0x05, 0xF4, 0x05, 0x23,
        0x33, 0x66, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B
ENDARRAY


/*
```

0x31	l2 pseudo length (= 12 Bytes)
0x06	Protocol discriminator, transaction identifier
0x21	Message type
0x01	page mode normal, SDCCH

0x0B	Mobile identity 1 (unknown type)

```
*/
BEGIN_PSTRUCT ("l2_frame", L2_PAG_1_WTYPE)
        SET_COMP ("content", L2_PAG_1_WTYPE_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_1_WTYPE_ARRAY, 23)
        0x31,
        0x06,
        0x21,
        0x10,
        0x08,
        0x0B, 0x12, 0x10, 0x83, 0x32,
        0x03, 0x95, 0x54, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B
ENDARRAY

/*
```

0x19	l2 pseudo length (= 6 Bytes)
0x06	Protocol discriminator, transaction identifier
0x21	Message type
0xC0	page mode normal, any channel
0x09	Mobile identity 1

```
*/
BEGIN_PSTRUCT ("l2_frame", L2_PAG_1_ST1_A1)
        SET_COMP ("content", L2_PAG_1_ST1_A1_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_1_ST1_A1_ARRAY, 23)
        0x19,
        0x06,
        0x21,
        0x00,
        0x02,
        0xF4, 142, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B
ENDARRAY

/*
```

0x2D	l2 pseudo length (= 11 Bytes)
0x06	Protocol discriminator, transaction identifier
0x21	Message type
0x80	page mode normal, TCH F
0x09	Mobile identity 1

```
*/
BEGIN_PSTRUCT ("l2_frame", L2_PAG_1_ST2_T3)
        SET_COMP ("content", L2_PAG_1_ST2_T3_ARRAY)
ENDSTRUCT
```

```
BEGINARRAY (L2_PAG_1_ST2_T3_ARRAY, 23)
        0x2D,
        0x06,
        0x21,
        0x80,
        0x02,
        0xF4, 143, 0x17, 0x03, 0xF4,
        0x00, 142, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B
ENDARRAY

/*
```

0x29	l2 pseudo length (= 10 Bytes)
0x06	Protocol discriminator, transaction identifier
0x21	Message type
0xC0	page mode normal, Dual
0x09	Mobile identity 1

```
*/
BEGIN_PSTRUCT ("l2_frame", L2_PAG_1_SI1_S)
        SET_COMP ("content", L2_PAG_1_SI1_S_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_1_SI1_S_ARRAY, 23)
        0x29,
        0x06,
        0x21,
        0x10,
        0x06,
        0x01, 0x10, 0x10, 0x83, 0x32,
        0xF3, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B
ENDARRAY

/*
```

0x39	l2 pseudo length (= 14 Bytes)
0x06	Protocol discriminator, transaction identifier
0x21	Message type
0xC0	page mode normal, Dual
0x09	Mobile identity 1

```
*/
BEGIN_PSTRUCT ("l2_frame", L2_PAG_1_SI2_D)
        SET_COMP ("content", L2_PAG_1_SI2_D_ARRAY)
ENDSTRUCT

BEGINARRAY(L2_PAG_1_SI2_D_ARRAY, 23)
        0x39,
        0x06,
        0x21,
```

```
        0xC0,
        0x02,
        0xF4, 143, 0x17, 0x06, 0x01,
        0x10, 0x10, 0x83, 0x32, 0xF3,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B
ENDARRAY

/*
```

0x1D	l2 pseudo length (= 7 Bytes)
0x06	Protocol discriminator, transaction identifier
0x21	Message type
0x00	page mode normal, any channel
0x09	Mobile identity 1

```
*/
BEGIN_PSTRUCT ("l2_frame", L2_PAG_1_ST1_A2)
        SET_COMP ("content", L2_PAG_1_ST1_A2_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_1_ST1_A2_ARRAY, 23)
        0x1D,
        0x06,
        0x21,
        0x00,
        0x03,
        0xF4, 0, 142, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B
ENDARRAY

/*
```

0x35	l2 pseudo length (= 13 Bytes)
0x06	Protocol discriminator, transaction identifier
0x21	Message type
0x80	page mode normal, TCH F
0x09	Mobile identity 1

```
*/
BEGIN_PSTRUCT ("l2_frame", L2_PAG_1_ST2_T4)
        SET_COMP ("content", L2_PAG_1_ST2_T4_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_1_ST2_T4_ARRAY, 23)
        0x35,
        0x06,
        0x21,
        0x80,
        0x02,
        0xF4, 143, 0x17, 0x05, 0xF4,
        0x00, 0x00, 0x00, 142, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
```

```
        0x2B, 0x2B, 0x2B
ENDARRAY

/*
```

0x11	l2 pseudo length (= 4 Byte)
0x06	protocol discriminator, transaction identifier
0x22	message type
0x00	page mode normal
0x00	empty mobile identity

```
*/
BEGIN_PSTRUCT ("l2_frame", L2_PAG_2_EMPTY)
        SET_COMP ("content", L2_PAG_2_EMPTY_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_2_EMPTY_ARRAY, 23)
        0x11,
        0x06,
        0x22,
        0x00,
        0x00,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B
ENDARRAY

/*
```

0x1D	l2 pseudo length (= 7 Byte)
0x06	Protocol discriminator, transaction identifier
0x22	Message type
0x00	page mode normal
0x00	Mobile identity

```
*/
BEGIN_PSTRUCT ("l2_frame", L2_PAG_2_T1_A)
        SET_COMP ("content", L2_PAG_2_T1_A_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_2_T1_A_ARRAY, 23)
        0x1D,
        0x06,
        0x22,
        0x00,
        0x05, 0x22, 0x33, 0x66,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", L2_PAG_2_T1_S)
        SET_COMP ("content", L2_PAG_2_T1_S_ARRAY)
```

```
ENDSTRUCT

BEGINARRAY (L2_PAG_2_T1_S_ARRAY, 23)
        0x1D,
        0x06,
        0x22,
        0x10,
        0x05, 0x22, 0x33, 0x66,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", L2_PAG_2_T1_T)
        SET_COMP ("content", L2_PAG_2_T1_T_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_2_T1_T_ARRAY, 23)
        0x1D,
        0x06,
        0x22,
        0x20,
        0x05, 0x22, 0x33, 0x66,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", L2_PAG_2_T1_D)
        SET_COMP ("content", L2_PAG_2_T1_D_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_2_T1_D_ARRAY, 23)
        0x1D,
        0x06,
        0x22,
        0x30,
        0x05, 0x22, 0x33, 0x66,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B
ENDARRAY

/*
```

0x2D	l2 pseudo length (= 11 Byte)
0x06	Protocol discriminator, transaction identifier
0x22	Message type
0x00	page mode normal
0x00	Mobile identity

```
*/
BEGIN_PSTRUCT ("l2_frame", L2_PAG_2_T2_A)
```

```
        SET_COMP ("content", L2_PAG_2_T2_A_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_2_T2_A_ARRAY, 23)
        0x2D,
        0x06,
        0x22,
        0x00,
        0x06, 0x22, 0x33, 0x66,
        0x05, 0x22, 0x33, 0x66,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", L2_PAG_2_T2_S)
        SET_COMP ("content", L2_PAG_2_T2_S_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_2_T2_S_ARRAY, 23)
        0x2D,
        0x06,
        0x22,
        0x40,
        0x05, 0x23, 0x33, 0x66,
        0x05, 0x22, 0x33, 0x66,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", L2_PAG_2_T2_T)
        SET_COMP ("content", L2_PAG_2_T2_T_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_2_T2_T_ARRAY, 23)
        0x2D,
        0x06,
        0x22,
        0x80,
        0x05, 0x22, 0x31, 0x66,
        0x05, 0x22, 0x33, 0x66,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", L2_PAG_2_T2_D)
        SET_COMP ("content", L2_PAG_2_T2_D_ARRAY)
ENDSTRUCT
```

```
BEGINARRAY (L2_PAG_2_T2_D_ARRAY, 23)
        0x2D,
        0x06,
        0x22,
        0xC0,
        0x05, 0x22, 0x33, 0x65,
        0x05, 0x22, 0x33, 0x66,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", L2_PAG_2_WRONG)
        SET_COMP ("content", L2_PAG_2_WRONG_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_2_WRONG_ARRAY, 23)
        0x2D,
        0x06,
        0x22,
        0x30,
        0x01, 0x22, 0x33, 0x66,
        0x04, 0x22, 0x33, 0x65,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B
ENDARRAY

/*
```

0x55	l2 pseudo length (= 11 Byte)
0x06	Protocol discriminator, transaction identifier
0x22	Message type
0x00	page mode normal
0x00	Mobile identity

```
*/
BEGIN_PSTRUCT ("l2_frame", L2_PAG_2_I3_A)
        SET_COMP ("content", L2_PAG_2_I3_A_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_2_I3_A_ARRAY, 23)
        0x55,
        0x06,
        0x22,
        0x00,
        0x01, 0x22, 0x33, 0x66,
        0x04, 0x22, 0x33, 0x65,
        0x17, 0x08, 0x09, 0x10, 0x10,
        0x83, 0x32, 0x03, 0x95, 0x54,
        0x8B
ENDARRAY
```

```
BEGIN_PSTRUCT ("l2_frame", L2_PAG_2_I3_S)
        SET_COMP ("content", L2_PAG_2_I3_S_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_2_I3_S_ARRAY, 23)
        0x55,
        0x06,
        0x22,
        0x00,
        0x01, 0x22, 0x33, 0x66,
        0x04, 0x22, 0x33, 0x65,
        0x17, 0x08, 0x09, 0x10, 0x10,
        0x83, 0x32, 0x03, 0x95, 0x54,
        0xAB
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", L2_PAG_2_I3_T)
        SET_COMP ("content", L2_PAG_2_I3_T_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_2_I3_T_ARRAY, 23)
        0x55,
        0x06,
        0x22,
        0x00,
        0x01, 0x22, 0x33, 0x66,
        0x04, 0x22, 0x33, 0x65,
        0x17, 0x08, 0x09, 0x10, 0x10,
        0x83, 0x32, 0x03, 0x95, 0x54,
        0xCB
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", L2_PAG_2_I3_D)
        SET_COMP ("content", L2_PAG_2_I3_D_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_2_I3_D_ARRAY, 23)
        0x55,
        0x06,
        0x22,
        0x00,
        0x01, 0x22, 0x33, 0x66,
        0x04, 0x22, 0x33, 0x65,
        0x17, 0x08, 0x09, 0x10, 0x10,
        0x83, 0x32, 0x03, 0x95, 0x54,
        0xEB
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", L2_PAG_2_I3_N)
        SET_COMP ("content", L2_PAG_2_I3_N_ARRAY)
ENDSTRUCT
```

```
BEGINARRAY (L2_PAG_2_I3_N_ARRAY, 23)
        0x55,
        0x06,
        0x22,
        0x00,
        0x01, 0x22, 0x33, 0x66,
        0x04, 0x22, 0x33, 0x65,
        0x17, 0x08, 0x09, 0x10, 0x10,
        0x83, 0x32, 0x03, 0x95, 0x54,
        0x2B
ENDARRAY

/*
```

0x49	l2 pseudo length (= 18 Byte)
0x06	Protocol discriminator, transaction identifier
0x22	Message type
0x00	Page mode normal
0x00	Mobile identity

```
*/
BEGIN_PSTRUCT ("l2_frame", L2_PAG_2_T3_A)
        SET_COMP ("content", L2_PAG_2_T3_A_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_2_T3_A_ARRAY, 23)
        0x49,
        0x06,
        0x22,
        0x00,
        0x01, 0x22, 0x33, 0x66,
        0x04, 0x22, 0x33, 0x65,
        0x17, 0x05, 0xF4, 0x05, 0x22,
        0x33, 0x66, 0x8B, 0x2B, 0x2B,
        0x2B
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", L2_PAG_2_T3_S)
        SET_COMP ("content", L2_PAG_2_T3_S_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_2_T3_S_ARRAY, 23)
        0x49,
        0x06,
        0x22,
        0x00,
        0x01, 0x22, 0x33, 0x66,
        0x04, 0x22, 0x33, 0x65,
        0x17, 0x05, 0xF4, 0x05, 0x22,
        0x33, 0x66, 0xAB, 0x2B, 0x2B,
        0x2B
ENDARRAY
```

```
BEGIN_PSTRUCT ("l2_frame", L2_PAG_2_T3_T)
        SET_COMP ("content", L2_PAG_2_T3_T_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_2_T3_T_ARRAY, 23)
        0x49,
        0x06,
        0x22,
        0x00,
        0x01, 0x22, 0x33, 0x66,
        0x04, 0x22, 0x33, 0x65,
        0x17, 0x05, 0xF4, 0x05, 0x22,
        0x33, 0x66, 0xCB, 0x2B, 0x2B,
        0x2B
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", L2_PAG_2_T3_D)
        SET_COMP ("content", L2_PAG_2_T3_D_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_2_T3_D_ARRAY, 23)
        0x49,
        0x06,
        0x22,
        0x00,
        0x01, 0x22, 0x33, 0x66,
        0x04, 0x22, 0x33, 0x65,
        0x17, 0x05, 0xF4, 0x05, 0x22,
        0x33, 0x66, 0xEB, 0x2B, 0x2B,
        0x2B
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", L2_PAG_2_T3_N)
        SET_COMP ("content", L2_PAG_2_T3_N_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_2_T3_N_ARRAY, 23)
        0x49,
        0x06,
        0x22,
        0x00,
        0x01, 0x22, 0x33, 0x66,
        0x04, 0x22, 0x33, 0x65,
        0x17, 0x05, 0xF4, 0x05, 0x22,
        0x33, 0x66, 0x2B, 0x2B, 0x2B,
        0x2B
ENDARRAY

/*
```

0x4D	l2 pseudo length (= 19 Byte)
0x06	Protocol discriminator, transaction

```
                identifier
0x22            Message type
0x00            page mode normal
0x00            Mobile identity
*/
BEGIN_PSTRUCT ("l2_frame", L2_PAG_2_SI3_A)
        SET_COMP ("content", L2_PAG_2_SI3_A_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_2_SI3_A_ARRAY, 23)
        0x4D,
        0x06,
        0x22,
        0x00,
        0x01, 0x22, 0x33, 0x66,
        0x04, 0x22, 0x33, 0x65,
        0x17, 0x06, 0x01, 0x10, 0x10,
        0x83, 0x32, 0xF3, 0x8B, 0x2B,
        0x2B
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", L2_PAG_2_ST3_S)
        SET_COMP ("content", L2_PAG_2_ST3_S_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_2_ST3_S_ARRAY, 23)
        0x3D,
        0x06,
        0x22,
        0x00,
        0x01, 0x22, 0x33, 0x66,
        0x04, 0x22, 0x33, 0x65,
        0x17, 0x02, 0xF4, 142, 0xAB,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", L2_PAG_2_ST3_T)
        SET_COMP ("content", L2_PAG_2_ST3_T_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_2_ST3_T_ARRAY, 23)
        0x41,
        0x06,
        0x22,
        0x00,
        0x01, 0x22, 0x33, 0x66,
        0x04, 0x22, 0x33, 0x65,
        0x17, 0x03, 0xF4, 0, 142, 0xCB,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B
ENDARRAY
```

```
BEGIN_PSTRUCT ("l2_frame", L2_PAG_2_ST3_D)
        SET_COMP ("content", L2_PAG_2_ST3_D_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_2_ST3_D_ARRAY, 23)
        0x45,
        0x06,
        0x22,
        0x00,
        0x01, 0x22, 0x33, 0x66,
        0x04, 0x22, 0x33, 0x65,
        0x17, 0x04, 0xF4, 0,0,142, 0xEB,
        0x2B, 0x2B, 0x2B, 0x2B
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", L2_PAG_2_ST3_N)
        SET_COMP ("content", L2_PAG_2_ST3_N_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_2_ST3_N_ARRAY, 23)
        0x49,
        0x06,
        0x22,
        0x00,
        0x01, 0x22, 0x33, 0x66,
        0x04, 0x22, 0x33, 0x65,
        0x17, 0x05, 0xF4, 0, 0,0,142, 0x2B,
        0x2B, 0x2B, 0x2B
ENDARRAY

/*
```

0x11	l2 pseudo length (= 4 Byte)
0x06	protocol discriminator, transaction identifier
0x24	message type
0x00	page mode normal
0x00	empty mobile identity

```
*/
BEGIN_PSTRUCT ("l2_frame", L2_PAG_3_EMPTY)
        SET_COMP ("content", L2_PAG_3_EMPTY_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_3_EMPTY_ARRAY, 23)
        0x11,
        0x06,
        0x24,
        0x00,
        0x00,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
        0x2B, 0x2B, 0x2B, 0x2B, 0x2B,
```

```
        0x2B, 0x2B, 0x2B
ENDARRAY

/*
```

0x4D	l2 pseudo length (= 19 Byte)
0x06	Protocol discriminator, transaction identifier
0x24	Message type
0x00	Page mode normal
0x00	Mobile identity

```
*/
BEGIN_PSTRUCT ("l2_frame", L2_PAG_3_T1_A)
        SET_COMP ("content", L2_PAG_3_T1_A_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_3_T1_A_ARRAY, 23)
        0x4D,
        0x06,
        0x24,
        0x00,
        0x05, 0x22, 0x33, 0x66,
        0x04, 0x22, 0x33, 0x65,
        0x03, 0x22, 0x33, 0x65,
        0x02, 0x22, 0x33, 0x65,
        0x2B, 0x2B, 0x2B
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", L2_PAG_3_T1_S)
        SET_COMP ("content", L2_PAG_3_T1_S_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_3_T1_S_ARRAY, 23)
        0x4D,
        0x06,
        0x24,
        0x10,
        0x05, 0x22, 0x33, 0x66,
        0x04, 0x22, 0x33, 0x65,
        0x03, 0x22, 0x33, 0x65,
        0x02, 0x22, 0x33, 0x65,
        0x2B, 0x2B, 0x2B
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", L2_PAG_3_T1_T)
        SET_COMP ("content", L2_PAG_3_T1_T_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_3_T1_T_ARRAY, 23)
        0x4D,
        0x06,
        0x24,
        0x20,
```

```
        0x05, 0x22, 0x33, 0x66,
        0x04, 0x22, 0x33, 0x65,
        0x03, 0x22, 0x33, 0x65,
        0x02, 0x22, 0x33, 0x65,
        0x2B, 0x2B, 0x2B
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", L2_PAG_3_T1_D)
        SET_COMP ("content", L2_PAG_3_T1_D_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_3_T1_D_ARRAY, 23)
        0x4D,
        0x06,
        0x24,
        0x30,
        0x05, 0x22, 0x33, 0x66,
        0x04, 0x22, 0x33, 0x65,
        0x03, 0x22, 0x33, 0x65,
        0x02, 0x22, 0x33, 0x65,
        0x2B, 0x2B, 0x2B
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", L2_PAG_3_T2_A)
        SET_COMP ("content", L2_PAG_3_T2_A_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_3_T2_A_ARRAY, 23)
        0x4D,
        0x06,
        0x24,
        0x00,
        0x04, 0x22, 0x33, 0x66,
        0x05, 0x22, 0x33, 0x66,
        0x03, 0x22, 0x33, 0x65,
        0x02, 0x22, 0x33, 0x65,
        0x2B, 0x2B, 0x2B
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", L2_PAG_3_T2_S)
        SET_COMP ("content", L2_PAG_3_T2_S_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_3_T2_S_ARRAY, 23)
        0x4D,
        0x06,
        0x24,
        0x40,
        0x04, 0x22, 0x33, 0x66,
        0x05, 0x22, 0x33, 0x66,
        0x03, 0x22, 0x33, 0x65,
```

```
        0x02, 0x22, 0x33, 0x65,
        0x2B, 0x2B, 0x2B
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", L2_PAG_3_T2_T)
        SET_COMP ("content", L2_PAG_3_T2_T_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_3_T2_T_ARRAY, 23)
        0x4D,
        0x06,
        0x24,
        0x80,
        0x04, 0x22, 0x33, 0x66,
        0x05, 0x22, 0x33, 0x66,
        0x03, 0x22, 0x33, 0x65,
        0x02, 0x22, 0x33, 0x65,
        0x2B, 0x2B, 0x2B
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", L2_PAG_3_T2_D)
        SET_COMP ("content", L2_PAG_3_T2_D_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_3_T2_D_ARRAY, 23)
        0x4D,
        0x06,
        0x24,
        0xC0,
        0x04, 0x22, 0x33, 0x66,
        0x05, 0x22, 0x33, 0x66,
        0x03, 0x22, 0x33, 0x65,
        0x02, 0x22, 0x33, 0x65,
        0x2B, 0x2B, 0x2B
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", L2_PAG_3_T3_A)
        SET_COMP ("content", L2_PAG_3_T3_A_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_3_T3_A_ARRAY, 23)
        0x4D,
        0x06,
        0x24,
        0x00,
        0x04, 0x22, 0x33, 0x66,
        0x04, 0x22, 0x33, 0x65,
        0x05, 0x22, 0x33, 0x66,
        0x02, 0x22, 0x33, 0x65,
        0x83, 0x2B, 0x2B
ENDARRAY
```

```
BEGIN_PSTRUCT ("l2_frame", L2_PAG_3_T3_S)
        SET_COMP ("content", L2_PAG_3_T3_S_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_3_T3_S_ARRAY, 23)
        0x4D,
        0x06,
        0x24,
        0x00,
        0x04, 0x22, 0x33, 0x66,
        0x04, 0x22, 0x33, 0x65,
        0x05, 0x22, 0x33, 0x66,
        0x02, 0x22, 0x33, 0x65,
        0xA3, 0x2B, 0x2B
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", L2_PAG_3_T3_T)
        SET_COMP ("content", L2_PAG_3_T3_T_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_3_T3_T_ARRAY, 23)
        0x4D,
        0x06,
        0x24,
        0x00,
        0x04, 0x22, 0x33, 0x66,
        0x04, 0x22, 0x33, 0x65,
        0x05, 0x22, 0x33, 0x66,
        0x02, 0x22, 0x33, 0x65,
        0xC3, 0x2B, 0x2B
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", L2_PAG_3_T3_D)
        SET_COMP ("content", L2_PAG_3_T3_D_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_3_T3_D_ARRAY, 23)
        0x4D,
        0x06,
        0x24,
        0x00,
        0x04, 0x22, 0x33, 0x66,
        0x04, 0x22, 0x33, 0x65,
        0x05, 0x22, 0x33, 0x66,
        0x02, 0x22, 0x33, 0x65,
        0xE3, 0x2B, 0x2B
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", L2_PAG_3_T3_N)
```

```
        SET_COMP ("content", L2_PAG_3_T3_N_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_3_T3_N_ARRAY, 23)
        0x4D,
        0x06,
        0x24,
        0x10,
        0x04, 0x22, 0x33, 0x66,
        0x04, 0x22, 0x33, 0x65,
        0x05, 0x22, 0x33, 0x66,
        0x02, 0x22, 0x33, 0x65,
        0x2B, 0x2B, 0x2B
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", L2_PAG_3_T4_A)
        SET_COMP ("content", L2_PAG_3_T4_A_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_3_T4_A_ARRAY, 23)
        0x4D,
        0x06,
        0x24,
        0x00,
        0x04, 0x22, 0x33, 0x66,
        0x04, 0x22, 0x33, 0x65,
        0x04, 0x22, 0x33, 0x67,
        0x05, 0x22, 0x33, 0x66,
        0xA3, 0x2B, 0x2B
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", L2_PAG_3_T4_S)
        SET_COMP ("content", L2_PAG_3_T4_S_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_3_T4_S_ARRAY, 23)
        0x4D,
        0x06,
        0x24,
        0x00,
        0x04, 0x22, 0x33, 0x66,
        0x04, 0x22, 0x33, 0x65,
        0x04, 0x22, 0x33, 0x67,
        0x05, 0x22, 0x33, 0x66,
        0x8B, 0x2B, 0x2B
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", L2_PAG_3_T4_T)
        SET_COMP ("content", L2_PAG_3_T4_T_ARRAY)
ENDSTRUCT
```

```
BEGINARRAY (L2_PAG_3_T4_T_ARRAY, 23)
        0x4D,
        0x06,
        0x24,
        0x00,
        0x04, 0x22, 0x33, 0x66,
        0x04, 0x22, 0x33, 0x65,
        0x04, 0x22, 0x33, 0x67,
        0x05, 0x22, 0x33, 0x66,
        0x93, 0x2B, 0x2B
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", L2_PAG_3_T4_D)
        SET_COMP ("content", L2_PAG_3_T4_D_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_3_T4_D_ARRAY, 23)
        0x4D,
        0x06,
        0x24,
        0x00,
        0x04, 0x22, 0x33, 0x66,
        0x04, 0x22, 0x33, 0x65,
        0x04, 0x22, 0x33, 0x67,
        0x05, 0x22, 0x33, 0x66,
        0x9B, 0x2B, 0x2B
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", L2_PAG_3_T4_N)
        SET_COMP ("content", L2_PAG_3_T4_N_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_3_T4_N_ARRAY, 23)
        0x4D,
        0x06,
        0x24,
        0x50,
        0x04, 0x22, 0x33, 0x66,
        0x04, 0x22, 0x33, 0x65,
        0x04, 0x22, 0x33, 0x67,
        0x05, 0x22, 0x33, 0x66,
        0x2B, 0x2B, 0x2B
ENDARRAY


BEGIN_PSTRUCT ("l2_frame", L2_PAG_3_WRONG)
        SET_COMP ("content", L2_PAG_3_WRONG_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_PAG_3_WRONG_ARRAY, 23)
        0x4D,
        0x06,
```

```
        0x24,
        0x50,
        0x04, 0x22, 0x33, 0x66,
        0x04, 0x22, 0x33, 0x65,
        0x04, 0x22, 0x33, 0x67,
        0x02, 0x22, 0x33, 0x65,
        0x2B, 0x2B, 0x2B
ENDARRAY

/*
```

0x31	l2 pseudo length (= 12 Byte)
0x06	protocol discriminator, transaction identifier
0x3F	message type
0x00	page mode
0x2B, ..	channel description
0xA0	request reference
0x1B	timing advance
0x01, 0x16	mobile allocation

```
*/
BEGIN_PSTRUCT ("l2_frame", L2_IMM_ASS)
        SET_COMP ("content", L2_IMM_ASS_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_IMM_ASS_ARRAY, 13)
        0x31,
        0x06,
        0x3F,
        0x00,
        0x2B, 0x54, 0x94,
        0xFB, 0x21, 0x06,
        0x1B,
        0x01, 0x16
ENDARRAY

/*
```

0x49	l2 pseudo length (= 18 Byte)
0x06	protocol discriminator, transaction identifier
0x39	message type
0x02	page mode
0x20, ..	channel description
0x00	request reference
0x00	timing advance
0x01, 0x16	mobile allocation

```
*/

BEGIN_PSTRUCT ("l2_frame", L2_IMM_ASS_EXT_REO)
        SET_COMP ("content", L2_IMM_ASS_EXT_REO_ARRAY)
ENDSTRUCT
```

```
BEGINARRAY(L2_IMM_ASS_EXT_REO_ARRAY, 23)
        0x49,
        0x06,
        0x39,
        0x02,
        0x20, 0xA0, 0x14,
        0x00, 0x00, 0x00,
        0x00,
        0x20, 0xA0, 0x14,
        0x00, 0x00, 0x00,
        0x00,
        0x00,
        0x2b,0x2b,0x2b,0x2b
ENDARRAY

/*
```

0x31	l2 pseudo length (= 12 Byte)
0x06	protocol discriminator, transaction identifier
0x3F	message type
0x00	page mode
0x40, 0x10, 0x40	channel description (hopping)
0xA0	request reference (???)
0x1E	timing advance (30 bits)
0x01, 0x16	mobile allocation (00010110) (->Freq 1,2,4) (0x01 = length of ma)
0x2B,..	spare bits
0x2B,..	spare bits

```
*/
BEGIN_PSTRUCT ("l2_frame", L2_IMM_ASS_HOP)
        SET_COMP ("content", L2_IMM_ASS_HOP_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_IMM_ASS_HOP_ARRAY, 23)
        0x31,
        0x06,
        0x3F,
        0x00,
        0x40, 0x10, 0x40,
        0xFB, 0x21, 0x06,
        0x1E,
        0x01, 0x16,
        0x2B,0x2B,0x2B,0x2B,0x2B,
        0x2B,0x2B,0x2B,0x2B,0x2B
ENDARRAY

/*
```

0xB0,0x00	length in bits (184/8 = 23 bytes)
0x08, 0x00	offset in bits
0x31	l2 pseudo length (= 12 Byte)

0x06	protocol discriminator, transaction identifier
0x3F	message type
0x00	page mode
0x40, ..	channel description
0xFB, ..	request reference
0x1E	timing advance
0x16	mobile allocation
0x2B,..	spare bits
0x2B,..	spare bits

```
*/
BEGIN_MSTRUCT ("page_mode", PAGE_MODE_1)
        SET_COMP ("pm", PAGING_NORM)
ENDSTRUCT


BEGIN_MSTRUCT ("chan_desc", CHAN_DESC_1)
        SET_COMP ("chan_type", SDCCH_8_S0)
        SET_COMP ("tn", 0)
        SET_COMP ("tsc", 0)
        SET_COMP ("hop", HOP_YES)
        SKIP_COMP ("arfcn")
        SET_COMP ("maio", 1)
        SET_COMP ("hsn", 0)
ENDSTRUCT


BEGIN_MSTRUCT ("pck_chan_desc", PCK_CHAN_DESC_1)
        SET_COMP ("pck_chan_type",1)
        SET_COMP ("tn",0)
        SET_COMP ("tsc",5)
        SET_COMP ("hop", 0)
        SKIP_COMP ("indir")
        SKIP_COMP ("arfcn")
        SKIP_COMP ("maio")
        SKIP_COMP ("ma_num")
        SKIP_COMP("flag")
        SKIP_COMP ("ch_mark1")
        SKIP_COMP ("hsn")
ENDSTRUCT


BEGIN_MSTRUCT ("req_ref", REQ_REF_1)
        SET_COMP ("ra", 0xFB)
        SET_COMP ("t1", 4)
        SET_COMP ("t3", 8)
        SET_COMP ("t2", 6)
ENDSTRUCT


BEGIN_MSTRUCT ("time_advance", TIME_ADVANCE_1)
        SET_COMP ("ta", 0x1E)
ENDSTRUCT
```

```
BEGIN_MSTRUCT ("mob_alloc", MOB_ALLOC_1)
        SET_COMP ("mac", MAC_1)
ENDSTRUCT

BEGINARRAY_PART (MAC_1, 1)
        0x16
ENDARRAY

/*
```

0x31	l2 pseudo length (= 12 Byte)
0x06	protocol discriminator, transaction identifier
0x3F	message type
0x00	page mode
0x2B, ..	any content

```
*/
BEGIN_PSTRUCT ("l2_frame", L2_IMM_ASS_REJ)
        SET_COMP ("content", L2_IMM_ASS_REJ_ARRAY)
ENDSTRUCT

BEGINARRAY (L2_IMM_ASS_REJ_ARRAY, 13)
        0x31,
        0x06,
        0x3F,
        0x00,
        0x2B, 0x54, 0x94,
        0xFB, 0x21, 0x06,
        0x1B,
        0x01, 0x16
ENDARRAY

/*
```

0xB0,0x00	length in bits
0x08, 0x00	offset in bits
0x31	l2 pseudo length (= 12 Byte)
0x06	protocol discriminator, transaction identifier
0x3F	message type
0x00	page mode
0x2B, ..	any content

```
*/
BEGIN_MSTRUCT ("chan_desc", CHAN_DESC_2)
        SET_COMP ("chan_type", SDCCH_4_S1)
        SET_COMP ("tn", 3)
        SET_COMP ("tsc", 2)
        SET_COMP ("hop", HOP_YES)
        SKIP_COMP ("arfcn")
        SET_COMP ("maio", 18)
        SET_COMP ("hsn", 20)
```

```
ENDSTRUCT


BEGIN_MSTRUCT ("time_advance", TIME_ADVANCE_2)
        SET_COMP ("ta", 0x1B)
ENDSTRUCT

/*
```

14, 0	ncell 14
124, 0	ncell 124
0xFF, 0xFF	end of actual description list

```
*/
BEGIN_SHORT_ARRAY (CHLIST_14_124_FFFF, 3)
        14,
        124,
        NOT_PRESENT_16BIT
ENDARRAY

/*
```

0, 2	ncell 512
0x75, 3	ncell 885
0xFF, 0xFF	end of actual description list

```
*/
BEGIN_SHORT_ARRAY (CHLIST_512_885_FFFF, 3)
        ARFCN_512,
        ARFCN_885,
        NOT_PRESENT_16BIT
ENDARRAY

/*
```

0, 2	ncell 512
0x2a, 3	ncell 810
0xFF, 0xFF	end of actual description list

```
*/
BEGIN_SHORT_ARRAY (CHLIST_512_810_FFFF, 3)
        ARFCN_512,
        ARFCN_810,
        NOT_PRESENT_16BIT
ENDARRAY

/*
```

14, 0	ncell 14
0,2	ncell 512
0x7d,2	ncell 637
0x75, 3	ncell 885
0xFF, 0xFF	end of actual description list

```
*/
```

```
BEGIN_SHORT_ARRAY (CHLIST_14_512_637_885_FFFF, 5)
        ARFCN_14,
        ARFCN_512,
        ARFCN_637,
        ARFCN_885,
        NOT_PRESENT_16BIT
ENDARRAY

/*
```

1, 0	ncell 1
14, 0	ncell 14
124, 0	ncell 124
0xFF, 0xFF	end of neighbour cell list

```
*/
BEGIN_SHORT_ARRAY_PART (CHLIST_1_14_124_FFFF, 4)
        ARFCN_1,
        ARFCN_14,
        ARFCN_124,
        NOT_PRESENT_16BIT
ENDARRAY

BEGIN_SHORT_ARRAY_PART (CHLIST_14_124_10_PBCCH, 4)
        ARFCN_14,
        ARFCN_124,
        ARFCN_10,
        NOT_PRESENT_16BIT
ENDARRAY

BEGIN_PSTRUCT ("chan_list", CHLIST_1_14_23_124_FFFF)
        SET_COMP("radio_freq", RF_1_14_23_124_FFFF)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (RF_1_14_23_124_FFFF, 5)
        ARFCN_1,
        ARFCN_14,
        ARFCN_23,
        ARFCN_124,
        NOT_PRESENT_16BIT
ENDARRAY

/*
```

23, 0	serving cell 23
1, 0	ncell 1
14, 0	ncell 14
124,0	ncell 124

```
*/
BEGIN_PSTRUCT ("chan_list", CHLIST_23_1_14_124)
        SET_COMP("radio_freq", RF_23_1_14_124)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (RF_23_1_14_124, 4)
        ARFCN_23,
```

```
        ARFCN_1,
        ARFCN_14,
        ARFCN_124
ENDARRAY

/*
```

23, 0	Ncell 23
1, 0	Ncell 1
124, 0	Ncell 124
0xFF, 0xFF	end of neighbour cell list

```
*/
BEGIN_SHORT_ARRAY_PART (CHLIST_23_1_124_FFFF, 4)
        ARFCN_23,
        ARFCN_1,
        ARFCN_124,
        NOT_PRESENT_16BIT
ENDARRAY

/*
```

0, 2	ncell 512
0x44, 2	ncell 580
0x75, 3	ncell 885
0xFF, 0xFF	end of neighbour cell list

```
*/
BEGIN_SHORT_ARRAY_PART (CHLIST_512_580_885_FFFF, 4)
        ARFCN_512,
        ARFCN_580,
        ARFCN_885,
        NOT_PRESENT_16BIT
ENDARRAY

/*
```

0x7D, 2	serving cell 637
0, 2	ncell 512
0x44, 2	ncell 580
0x75, 3	ncell 885

```
*/
BEGIN_PSTRUCT ("chan_list", CHLIST_637_512_580_885)
        SET_COMP ("radio_freq", RF_637_512_580_885)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (RF_637_512_580_885, 4)
        ARFCN_637,
        ARFCN_512,
        ARFCN_580,
        ARFCN_885
ENDARRAY

/*
```

0,2	ncell 518

0x7d,2	ncell 637
0x75,3	ncell 885
0xFF, 0xFF	end of neighbour cell list

```
*/
BEGIN_SHORT_ARRAY_PART (CHLIST_512_637_885_FFFF, 4)
        ARFCN_512,
        ARFCN_637,
        ARFCN_885,
        NOT_PRESENT_16BIT
ENDARRAY

/*
```

0, 2	ncell 512
0x44, 2	ncell 580
0x2a, 3	ncell 810
0xFF, 0xFF	end of neighbour cell list

```
*/
BEGIN_PSTRUCT ("chan_list", CHLIST_512_580_810_FFFF)
        SET_COMP("radio_freq", RF_512_580_810_FFFF)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (RF_512_580_810_FFFF, 4)
        ARFCN_512,
        ARFCN_580,
        ARFCN_810,
        NOT_PRESENT_16BIT
ENDARRAY

/*
```

0, 2	ncell 512
0x44, 2	ncell 580
0x2a, 3	ncell 810
0x7D, 2	serving cell 637

```
*/
BEGIN_PSTRUCT ("chan_list", CHLIST_512_580_810_637)
        SET_COMP("radio_freq", RF_512_580_810_637)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (RF_512_580_810_637, 4)
        ARFCN_512,
        ARFCN_580,
        ARFCN_810,
        ARFCN_637
ENDARRAY

/*
```

0,2	ncell 518
0x7d,2	ncell 637
0x2a,3	ncell 810
0xFF,	end of neighbour cell list

0xFF	

*/
```
BEGIN_PSTRUCT ("chan_list", CHLIST_512_637_810_FFFF)
        SET_COMP("radio_freq", RF_512_637_810_FFFF)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (RF_512_637_810_FFFF, 4)
        ARFCN_512,
        ARFCN_637,
        ARFCN_810,
        NOT_PRESENT_16BIT
ENDARRAY
```

/*

1, 0	ncell 1
14, 0	ncell 14
124, 0	ncell 124
0,2	ncell 512
0x44, 2	ncell 580
0x7d,2	ncell 637
0x75, 3	ncell 885
0xFF, 0xFF	end of neighbour cell list

*/
```
BEGIN_SHORT_ARRAY_PART (CHLIST_1_14_124_512_580_637_885_FFFF, 8)
        ARFCN_1,
        ARFCN_14,
        ARFCN_124,
        ARFCN_512,
        ARFCN_580,
        ARFCN_637,
        ARFCN_885,
        NOT_PRESENT_16BIT
ENDARRAY


BEGIN_PSTRUCT ("chan_list", CHLIST_1_14_124_512_580_637_1023_FFFF)
        SET_COMP("radio_freq", RF_1_14_124_512_580_637_1023_FFFF)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (RF_1_14_124_512_580_637_1023_FFFF, 8)
        ARFCN_1,
        ARFCN_14,
        ARFCN_124,
        ARFCN_512,
        ARFCN_580,
        ARFCN_637,
        ARFCN_1023,
        NOT_PRESENT_16BIT
ENDARRAY
```

/*

1, 0	ncell 1

14, 0	ncell 14
124, 0	ncell 124
0,2	ncell 512
0x44, 2	ncell 580
0x7d,2	ncell 637
0x75, 3	ncell 885
23,0	serving cell 23

```
*/
BEGIN_PSTRUCT ("chan_list", CHLIST_23_1_14_124_512_580_637_885)
        SET_COMP("radio_freq", RF_23_1_14_124_512_580_637_885)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (RF_23_1_14_124_512_580_637_885, 8)
        ARFCN_23,
        ARFCN_1,
        ARFCN_14,
        ARFCN_124,
        ARFCN_512,
        ARFCN_580,
        ARFCN_637,
        ARFCN_885
ENDARRAY


BEGIN_PSTRUCT ("chan_list", CHLIST_1_14_124_512_580_637_1023_0)
        SET_COMP("radio_freq", RF_1_14_124_512_580_637_1023_0)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (RF_1_14_124_512_580_637_1023_0, 8)
        ARFCN_1,
        ARFCN_14,
        ARFCN_124,
        ARFCN_512,
        ARFCN_580,
        ARFCN_637,
        ARFCN_1023,
        ARFCN_0
ENDARRAY

/*
```

1, 0	ncell 1
14, 0	ncell 14
23, 0	ncell 23
124, 0	ncell 124
0,2	ncell 512
0x44, 2	ncell 580
0x75, 3	ncell 885
0xFF, 0xFF	end of neighbour cell list

```
*/
BEGIN_SHORT_ARRAY_PART (CHLIST_1_14_23_124_512_580_885_FFFF, 8)
        ARFCN_1,
        ARFCN_14,
```

```
        ARFCN_23,
        ARFCN_124,
        ARFCN_512,
        ARFCN_580,
        ARFCN_885,
        NOT_PRESENT_16BIT
ENDARRAY

/*
```

1, 0	ncell 1
14, 0	ncell 14
0, 0	ncell 0
124, 0	ncell 124
0,2	ncell 512
0x44, 2	ncell 580
0xFF, 3	ncell 1023
0xFF, 0xFF	end of neighbour cell list

```
*/
BEGIN_PSTRUCT ("chan_list", CHLIST_1_14_0_124_512_580_1023_FFFF)
        SET_COMP("radio_freq", RF_1_14_0_124_512_580_1023_FFFF)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (RF_1_14_0_124_512_580_1023_FFFF, 8)
        ARFCN_1,
        ARFCN_14,
        ARFCN_0,
        ARFCN_124,
        ARFCN_512,
        ARFCN_580,
        ARFCN_1023,
        NOT_PRESENT_16BIT
ENDARRAY

/*
```

0x7d, 2	serving cell 637
1, 0	ncell 1
14, 0	ncell 14
23, 0	ncell 23
124, 0	ncell 124
0,2	ncell 512
0x44, 2	ncell 580
0x75, 3	ncell 885

```
*/
BEGIN_PSTRUCT ("chan_list", CHLIST_637_1_14_23_124_512_580_885)
        SET_COMP ("radio_freq", RF_637_1_14_23_124_512_580_885)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (RF_637_1_14_23_124_512_580_885, 8)
        ARFCN_637,
        ARFCN_1,
        ARFCN_14,
        ARFCN_23,
```

```
        ARFCN_124,
        ARFCN_512,
        ARFCN_580,
        ARFCN_885
ENDARRAY


BEGIN_PSTRUCT ("chan_list", CHLIST_1_14_0_124_512_580_1023_975)
        SET_COMP("radio_freq", RF_1_14_0_124_512_580_1023_975)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (RF_1_14_0_124_512_580_1023_975, 8)
        ARFCN_1,
        ARFCN_14,
        ARFCN_0,
        ARFCN_124,
        ARFCN_512,
        ARFCN_580,
        ARFCN_1023,
        ARFCN_975
ENDARRAY


BEGIN_SHORT_ARRAY_PART (EMPTY_NCELL_LIST,1)
        NOT_PRESENT_16BIT
ENDARRAY


BEGIN_PSTRUCT ("chan_list", CHLIST_10_20_40_80_90_100_110_120_FFFF)
        SET_COMP("radio_freq", RF_10_20_40_80_90_100_110_120_FFFF)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (RF_10_20_40_80_90_100_110_120_FFFF, 9)
        ARFCN_10,
        ARFCN_20,
        ARFCN_40,
        ARFCN_80,
        ARFCN_90,
        ARFCN_100,
        ARFCN_110,
        ARFCN_120,
        NOT_PRESENT_16BIT
ENDARRAY


BEGIN_SHORT_ARRAY_PART (CHLIST_1_15_FFFF, 3)
        ARFCN_1,
        ARFCN_15,
        NOT_PRESENT_16BIT
ENDARRAY

BEGIN_SHORT_ARRAY_PART (CHLIST_2_30_FFFF, 3)
        ARFCN_2,
        ARFCN_30,
```

```
        NOT_PRESENT_16BIT
ENDARRAY

BEGIN_PSTRUCT ("chan_list", CHLIST_10_20_40_80_90_100_110_120)
        SET_COMP("radio_freq", RF_10_20_40_80_90_100_110_120)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (RF_10_20_40_80_90_100_110_120, 8)
        ARFCN_10,
        ARFCN_20,
        ARFCN_40,
        ARFCN_80,
        ARFCN_90,
        ARFCN_100,
        ARFCN_110,
        ARFCN_120
ENDARRAY


BEGIN_PSTRUCT ("chan_list", CHLIST_1_14_15)
        SET_COMP("radio_freq", RF_1_14_15)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (RF_1_14_15, 3)
        ARFCN_1,
        ARFCN_14,
        ARFCN_15
ENDARRAY


BEGIN_PSTRUCT ("chan_list", CHLIST_23_1_15)
        SET_COMP("radio_freq", RF_23_1_15)
ENDSTRUCT

BEGIN_PSTRUCT ("chan_list", CHLIST_42_2_30)
        SET_COMP("radio_freq", RF_42_2_30)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (RF_23_1_15, 3)
        ARFCN_23,
        ARFCN_1,
        ARFCN_15
ENDARRAY

BEGIN_SHORT_ARRAY_PART (RF_42_2_30, 3)
        ARFCN_42,
        ARFCN_2,
        ARFCN_30
ENDARRAY

BEGIN_PSTRUCT ("chan_list", CHLIST_1_14_124_23)
        SET_COMP("radio_freq", RF_1_14_124_23)
ENDSTRUCT
```

```
BEGIN_SHORT_ARRAY_PART (RF_1_14_124_23, 4)
        ARFCN_1,
        ARFCN_14,
        ARFCN_124,
        ARFCN_23
ENDARRAY

BEGIN_PSTRUCT ("chan_list", CHLIST_10_FFFF)
        SET_COMP("radio_freq", RF_10_FFFF)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (RF_10_FFFF, 2)
        ARFCN_10,
        NOT_PRESENT_16BIT
ENDARRAY


BEGIN_PSTRUCT ("chan_list", CHLIST_23_10)
        SET_COMP("radio_freq", RF_23_10)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (RF_23_10, 2)
        ARFCN_23,
        ARFCN_10
ENDARRAY


BEGIN_PSTRUCT ("chan_list", CHLIST_2_8_FFFF)
        SET_COMP("radio_freq", RF_2_8_FFFF)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (RF_2_8_FFFF, 3)
        ARFCN_2,
        ARFCN_8,
        NOT_PRESENT_16BIT
ENDARRAY


BEGIN_PSTRUCT ("chan_list", CHLIST_14_2_8)
        SET_COMP("radio_freq", RF_14_2_8)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (RF_14_2_8, 3)
        ARFCN_14,
        ARFCN_2,
        ARFCN_8
ENDARRAY


BEGIN_PSTRUCT("chan_list", CHLIST_14_23_1_124)
        SET_COMP("radio_freq", RF_14_23_1_124)
ENDSTRUCT
```

```
BEGIN_SHORT_ARRAY_PART (RF_14_23_1_124, 4)
        ARFCN_14,
        ARFCN_23,
        ARFCN_1,
        ARFCN_124
ENDARRAY



BEGIN_PSTRUCT ("chan_list", CHLIST_14)
        SET_COMP("radio_freq", RF_14)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (RF_14, 1)
        ARFCN_14
ENDARRAY


BEGIN_PSTRUCT ("chan_list", CHLIST_975)
        SET_COMP("radio_freq", RF_975)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (RF_975, 1)
        ARFCN_975
ENDARRAY

/*
```

0,2	ncell 512
0x7d, 2	ncell 637
0x75, 3	ncell 885
0x44, 2	serving cell 580

```
*/
BEGIN_PSTRUCT ("chan_list", CHLIST_580_512_637_885)
        SET_COMP ("radio_freq", RF_580_512_637_885)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (RF_580_512_637_885, 4)
        ARFCN_580,
        ARFCN_512,
        ARFCN_637,
        ARFCN_885
ENDARRAY

/*
```

0x44, 2	serving cell 580
0,2	ncell 512
0x7d, 2	ncell 637
0x2a, 3	ncell 810

```
*/
BEGIN_PSTRUCT ("chan_list", CHLIST_580_512_637_810)
        SET_COMP("radio_freq", RF_580_512_637_810)
ENDSTRUCT
```

```
BEGIN_SHORT_ARRAY_PART (RF_580_512_637_810, 4)
        ARFCN_580,
        ARFCN_512,
        ARFCN_637,
        ARFCN_810
ENDARRAY


BEGIN_PSTRUCT ("chan_list", CHLIST_580)
        SET_COMP ("radio_freq", RF_580)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (RF_580, 1)
        ARFCN_580
ENDARRAY


BEGIN_PSTRUCT ("chan_list", CHLIST_23)
        SET_COMP ("radio_freq", RF_23)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (RF_23, 1)
        ARFCN_23
ENDARRAY


BEGIN_PSTRUCT ("chan_list", CHLIST_637)
        SET_COMP ("radio_freq", RF_637)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (RF_637, 1)
        ARFCN_637
ENDARRAY


BEGIN_SHORT_ARRAY_PART (CHLIST_23_1_14_124_FFFF, 5)
        ARFCN_23,
        ARFCN_1,
        ARFCN_14,
        ARFCN_124,
        NOT_PRESENT_16BIT
ENDARRAY

/*
```

1, 0	ncell 1
14, 0	ncell 14
25, 0	ncell 25
124, 0	ncell 124
0, 2	ncell 512
0x44, 2	ncell 580
0x7D, 2	ncell 637
0x75, 3	ncell 885
0xFF,	end of neighbour cell list

0xFF	

*/

```
BEGIN_SHORT_ARRAY (CHLIST_1_14_25_124_512_580_637_885_FFFF, 9)
        ARFCN_1,
        ARFCN_14,
        ARFCN_25,
        ARFCN_124,
        ARFCN_512,
        ARFCN_580,
        ARFCN_637,
        ARFCN_885,
        NOT_PRESENT_16BIT
ENDARRAY


BEGIN_PSTRUCT ("chan_list", CHLIST_23_1_14_25_124_512_580_637_885)
        SET_COMP ("radio_freq", RF_23_1_14_25_124_512_580_637_885)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (RF_23_1_14_25_124_512_580_637_885, 9)
        ARFCN_23,
        ARFCN_1,
        ARFCN_14,
        ARFCN_25,
        ARFCN_124,
        ARFCN_512,
        ARFCN_580,
        ARFCN_637,
        ARFCN_885
ENDARRAY


BEGIN_PSTRUCT("result", NCELL_RES_23a)
        SET_COMP("radio_freq", ARFCN_23)
        SET_COMP("rxlev", 30)
ENDSTRUCT


BEGIN_PSTRUCT("result", NCELL_RES_14a)
        SET_COMP("radio_freq", ARFCN_14)
        SET_COMP("rxlev", 44)
ENDSTRUCT


BEGIN_PSTRUCT("result", NCELL_RES_25a)
        SET_COMP("radio_freq", ARFCN_25)
        SET_COMP("rxlev", 55)
ENDSTRUCT


BEGIN_PSTRUCT("result", NCELL_RES_124a)
        SET_COMP("radio_freq", ARFCN_124)
        SET_COMP("rxlev", 12)
ENDSTRUCT
```

```
BEGIN_PSTRUCT("result", NCELL_RES_512a)
        SET_COMP("radio_freq", ARFCN_512)
        SET_COMP("rxlev", 43)
ENDSTRUCT


BEGIN_PSTRUCT("result", NCELL_RES_580a)
        SET_COMP("radio_freq", ARFCN_580)
        SET_COMP("rxlev", 25)
ENDSTRUCT


BEGIN_PSTRUCT("result", NCELL_RES_637a)
        SET_COMP("radio_freq", ARFCN_637)
        SET_COMP("rxlev", 56)
ENDSTRUCT


BEGIN_PSTRUCT("result", NCELL_RES_885a)
        SET_COMP("radio_freq", ARFCN_885)
        SET_COMP("rxlev", 25)
ENDSTRUCT


BEGIN_PSTRUCT_ARRAY (NCELL_RES_SC_23_8, 8)
        NCELL_RES_23a,
        NCELL_RES_14a,
        NCELL_RES_25a,
        NCELL_RES_124a,
        NCELL_RES_512a,
        NCELL_RES_580a,
        NCELL_RES_637a,
        NCELL_RES_885a
ENDARRAY


BEGIN_SHORT_ARRAY (CHLIST_14_25_512_580_637_885, 6)
        ARFCN_14,
        ARFCN_25,
        ARFCN_512,
        ARFCN_580,
        ARFCN_637,
        ARFCN_885
ENDARRAY


BEGINARRAY(NCELLS_SC_900_8_RXLEVS, 6)
        44, 55, 43, 25, 56, 25
ENDARRAY
```

```
BEGINARRAY(NCELLS_SC_900_8_BSICS, 6)
        1, 1, 1, 1, 1, 1
ENDARRAY


BEGIN_LONG_ARRAY(NCELLS_SC_900_8_TA,6)
        TIME_ALIGNMT_14,
        TIME_ALIGNMT_14,
        TIME_ALIGNMT_14,
        TIME_ALIGNMT_14,
        TIME_ALIGNMT_14,
        TIME_ALIGNMT_14
ENDARRAY


BEGIN_LONG_ARRAY(NCELLS_SC_900_8_FO,6)
        FN_OFFSET_14,
        FN_OFFSET_14,
        FN_OFFSET_14,
        FN_OFFSET_14,
        FN_OFFSET_14,
        FN_OFFSET_14
ENDARRAY


BEGIN_PSTRUCT("ncells", NCELLS_SC_900_8)
        SET_COMP("no_of_ncells", 6)
        SET_COMP("arfcn", CHLIST_14_25_512_580_637_885)
        SET_COMP("rx_lev", NCELLS_SC_900_8_RXLEVS)
        SET_COMP("bsic", NCELLS_SC_900_8_BSICS)
        SET_COMP("time_alignmt", NCELLS_SC_900_8_TA)
        SET_COMP("frame_offset", NCELLS_SC_900_8_FO)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (CHLIST_1_11_14_25_87_124_512_885_FFFF, 9)
        ARFCN_1,
        ARFCN_11,
        ARFCN_14,
        ARFCN_25,
        ARFCN_87,
        ARFCN_124,
        ARFCN_512,
        ARFCN_885,
        NOT_PRESENT_16BIT
ENDARRAY


BEGIN_PSTRUCT ("chan_list", CHLIST_23_1_11_14_25_87_124_512_885)
        SET_COMP ("radio_freq", RF_23_1_11_14_25_87_124_512_885)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (RF_23_1_11_14_25_87_124_512_885, 9)
        ARFCN_23,
        ARFCN_1,
```

```
        ARFCN_11,
        ARFCN_14,
        ARFCN_25,
        ARFCN_87,
        ARFCN_124,
        ARFCN_512,
        ARFCN_885
ENDARRAY


BEGIN_PSTRUCT("result", ARFCN_14b)
        SET_COMP("radio_freq", ARFCN_14)
        SET_COMP("rxlev", 44)
ENDSTRUCT


BEGIN_PSTRUCT("result", ARFCN_1b)
        SET_COMP("radio_freq", ARFCN_1)
        SET_COMP("rxlev", 11)
ENDSTRUCT


BEGIN_PSTRUCT("result", ARFCN_11b)
        SET_COMP("radio_freq", ARFCN_11)
        SET_COMP("rxlev", 22)
ENDSTRUCT



BEGIN_PSTRUCT("result", ARFCN_25b)
        SET_COMP("radio_freq", ARFCN_25)
        SET_COMP("rxlev", 15)
ENDSTRUCT


BEGIN_PSTRUCT("result", ARFCN_87b)
        SET_COMP("radio_freq", ARFCN_87)
        SET_COMP("rxlev", 21)
ENDSTRUCT


BEGIN_PSTRUCT("result", ARFCN_124b)
        SET_COMP("radio_freq", ARFCN_124)
        SET_COMP("rxlev", 3)
ENDSTRUCT


BEGIN_PSTRUCT("result", ARFCN_512b)
        SET_COMP("radio_freq", ARFCN_512)
        SET_COMP("rxlev", 43)
ENDSTRUCT
```

```
BEGIN_PSTRUCT("result", ARFCN_885b)
        SET_COMP("radio_freq", ARFCN_885)
        SET_COMP("rxlev", 23)
ENDSTRUCT


BEGIN_PSTRUCT_ARRAY(NCELL_RES_SC_23_8_1, 8)
        ARFCN_14b,
        ARFCN_1b,
        ARFCN_11b,
        ARFCN_25b,
        ARFCN_87b,
        ARFCN_124b,
        ARFCN_512b,
        ARFCN_885b
ENDARRAY


BEGIN_SHORT_ARRAY(CHLIST_1_11_14_25_87_512, 6)
        ARFCN_1,
        ARFCN_11,
        ARFCN_14,
        ARFCN_25,
        ARFCN_87,
        ARFCN_512
ENDARRAY

BEGINARRAY(NCELLS_SC_900_8_1_RXLEVS, 6)
        11, 22, 44, 15, 21, 43
ENDARRAY


BEGINARRAY(NCELLS_SC_900_8_1_BSICS, 6)
        1, 1, 1, 1, 1, 1
ENDARRAY


BEGIN_LONG_ARRAY(NCELLS_SC_900_8_1_TA,6)
        TIME_ALIGNMT_14,
        TIME_ALIGNMT_14,
        TIME_ALIGNMT_14,
        TIME_ALIGNMT_14,
        TIME_ALIGNMT_14,
        TIME_ALIGNMT_14
ENDARRAY


BEGIN_LONG_ARRAY(NCELLS_SC_900_8_1_FO,6)
        FN_OFFSET_14,
        FN_OFFSET_14,
        FN_OFFSET_14,
        FN_OFFSET_14,
        FN_OFFSET_14,
```

```
        FN_OFFSET_14
ENDARRAY


BEGIN_PSTRUCT("ncells", NCELLS_SC_900_8_1)
        SET_COMP("no_of_ncells", 6)
        SET_COMP("arfcn", CHLIST_1_11_14_25_87_512)
        SET_COMP("rx_lev", NCELLS_SC_900_8_1_RXLEVS)
        SET_COMP("bsic", NCELLS_SC_900_8_1_BSICS)
        SET_COMP("time_alignmt", NCELLS_SC_900_8_1_TA)
        SET_COMP("frame_offset", NCELLS_SC_900_8_1_FO)
ENDSTRUCT


BEGIN_SHORT_ARRAY (CHLIST_1_14_512_885_FFFF, 5)
        ARFCN_1,
        ARFCN_14,
        ARFCN_512,
        ARFCN_885,
        NOT_PRESENT_16BIT
ENDARRAY


BEGIN_PSTRUCT ("chan_list", CHLIST_23_1_14_512_885)
        SET_COMP ("radio_freq", RF_23_1_14_512_885)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (RF_23_1_14_512_885, 5)
        ARFCN_23,
        ARFCN_1,
        ARFCN_14,
        ARFCN_512,
        ARFCN_885
ENDARRAY



BEGIN_PSTRUCT("result", NCELL_RES_1c)
        SET_COMP("radio_freq", ARFCN_1)
        SET_COMP("rxlev", 11)
ENDSTRUCT


BEGIN_PSTRUCT("result", NCELL_RES_14c)
        SET_COMP("radio_freq", ARFCN_14)
        SET_COMP("rxlev", 44)
ENDSTRUCT


BEGIN_PSTRUCT("result", NCELL_RES_512c)
        SET_COMP("radio_freq", ARFCN_512)
        SET_COMP("rxlev", 43)
ENDSTRUCT
```

```
BEGIN_PSTRUCT("result", NCELL_RES_885c)
        SET_COMP("radio_freq", ARFCN_885)
        SET_COMP("rxlev", 23)
ENDSTRUCT


BEGIN_PSTRUCT_ARRAY (NCELL_RES_SC_23_4_1, 8)
        NCELL_RES_1c,
        NCELL_RES_14c,
        NCELL_RES_512c,
        NCELL_RES_885c,
        NCELL_RESULT_NO_CONTENT_1,
        NCELL_RESULT_NO_CONTENT_1,
        NCELL_RESULT_NO_CONTENT_1,
        NCELL_RESULT_NO_CONTENT_1
ENDARRAY



BEGIN_SHORT_ARRAY_PART (CHLIST_1_14_512_885, 4)
        ARFCN_1,
        ARFCN_14,
        ARFCN_512,
        ARFCN_885
ENDARRAY


BEGINARRAY_PART (NCELLS_SC_900_4_1_RXLEVS, 4)
        11, 44, 43, 23
ENDARRAY


BEGINARRAY_PART (NCELLS_SC_900_4_1_BSICS, 4)
        1, 1, 1, 1, 1, 1
ENDARRAY


BEGIN_LONG_ARRAY_PART (NCELLS_SC_900_4_1_TA,4)
        TIME_ALIGNMT_14,
        TIME_ALIGNMT_14,
        TIME_ALIGNMT_14,
        TIME_ALIGNMT_14
ENDARRAY


BEGIN_LONG_ARRAY_PART (NCELLS_SC_900_4_1_FO,4)
        FN_OFFSET_14,
        FN_OFFSET_14,
        FN_OFFSET_14,
        FN_OFFSET_14
ENDARRAY
```

```
BEGIN_PSTRUCT("ncells", NCELLS_SC_900_4_1)
        SET_COMP("no_of_ncells", 4)
        SET_COMP("arfcn", CHLIST_1_14_512_885)
        SET_COMP("rx_lev", NCELLS_SC_900_4_1_RXLEVS)
        SET_COMP("bsic", NCELLS_SC_900_4_1_BSICS)
        SET_COMP("time_alignmt", NCELLS_SC_900_4_1_TA)
        SET_COMP("frame_offset", NCELLS_SC_900_4_1_FO)
ENDSTRUCT


BEGIN_SHORT_ARRAY (CHLIST_1_14_512_513_600_700_810_885_FFFF, 9)
        ARFCN_1,
        ARFCN_14,
        ARFCN_512,
        ARFCN_513,
        ARFCN_600,
        ARFCN_700,
        ARFCN_810,
        ARFCN_885,
        NOT_PRESENT_16BIT
ENDARRAY


BEGIN_PSTRUCT ("chan_list", CHLIST_637_1_14_512_513_600_700_810_885)
        SET_COMP ("radio_freq", RF_637_1_14_512_513_600_700_810_885)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (RF_637_1_14_512_513_600_700_810_885, 9)
        ARFCN_637,
        ARFCN_1,
        ARFCN_14,
        ARFCN_512,
        ARFCN_513,
        ARFCN_600,
        ARFCN_700,
        ARFCN_810,
        ARFCN_885
ENDARRAY


BEGIN_PSTRUCT("result", NCELL_RES_1d)
        SET_COMP("radio_freq", ARFCN_1)
        SET_COMP("rxlev", 33)
ENDSTRUCT


BEGIN_PSTRUCT("result", NCELL_RES_14d)
        SET_COMP("radio_freq", ARFCN_14)
        SET_COMP("rxlev", 44)
ENDSTRUCT


BEGIN_PSTRUCT("result", NCELL_RES_512d)
        SET_COMP("radio_freq", ARFCN_512)
```

```
        SET_COMP("rxlev", 12)
ENDSTRUCT


BEGIN_PSTRUCT("result", NCELL_RES_513d)
        SET_COMP("radio_freq", ARFCN_513)
        SET_COMP("rxlev", 21)
ENDSTRUCT


BEGIN_PSTRUCT("result", NCELL_RES_600d)
        SET_COMP("radio_freq", ARFCN_600)
        SET_COMP("rxlev", 24)
ENDSTRUCT


BEGIN_PSTRUCT("result", NCELL_RES_700d)
        SET_COMP("radio_freq", ARFCN_700)
        SET_COMP("rxlev", 27)
ENDSTRUCT


BEGIN_PSTRUCT("result", NCELL_RES_810d)
        SET_COMP("radio_freq", ARFCN_810)
        SET_COMP("rxlev", 18)
ENDSTRUCT


BEGIN_PSTRUCT("result", NCELL_RES_885d)
        SET_COMP("radio_freq", ARFCN_885)
        SET_COMP("rxlev", 15)
ENDSTRUCT


BEGIN_PSTRUCT_ARRAY(NCELL_RES_SC_637_8_1, 8)
        NCELL_RES_1d,
        NCELL_RES_14d,
        NCELL_RES_512d,
        NCELL_RES_513d,
        NCELL_RES_600d,
        NCELL_RES_700d,
        NCELL_RES_810d,
        NCELL_RES_885d
ENDARRAY


BEGIN_SHORT_ARRAY(CHLIST_14_513_600_700_810_885,6)
        ARFCN_14,
        ARFCN_513,
        ARFCN_600,
        ARFCN_700,
        ARFCN_810,
        ARFCN_885
ENDARRAY
```

```
BEGINARRAY(NCELLS_SC_1800_8_1_RXLEVS,6)
        44,21,24,27,18,15
ENDARRAY


BEGINARRAY(NCELLS_SC_1800_8_1_BSICS,6)
        1,1,1,1,1,1
ENDARRAY


BEGIN_LONG_ARRAY(NCELLS_SC_1800_8_1_TA,6)
        TIME_ALIGNMT_14,
        TIME_ALIGNMT_14,
        TIME_ALIGNMT_14,
        TIME_ALIGNMT_14,
        TIME_ALIGNMT_14,
        TIME_ALIGNMT_14
ENDARRAY


BEGIN_LONG_ARRAY(NCELLS_SC_1800_8_1_FO,6)
        FN_OFFSET_14,
        FN_OFFSET_14,
        FN_OFFSET_14,
        FN_OFFSET_14,
        FN_OFFSET_14,
        FN_OFFSET_14
ENDARRAY


BEGIN_PSTRUCT("ncells", NCELLS_SC_1800_8_1)
        SET_COMP("no_of_ncells", 6)
        SET_COMP("arfcn",CHLIST_14_513_600_700_810_885)
        SET_COMP("rx_lev", NCELLS_SC_1800_8_1_RXLEVS)
        SET_COMP("bsic",NCELLS_SC_1800_8_1_BSICS)
        SET_COMP("time_alignmt",NCELLS_SC_1800_8_1_TA)
        SET_COMP("frame_offset",NCELLS_SC_1800_8_1_FO)
ENDSTRUCT


BEGIN_PSTRUCT ("chan_list", CHLIST_637_1_14_512_885)
        SET_COMP ("radio_freq", RF_637_1_14_512_885)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (RF_637_1_14_512_885,5)
        ARFCN_637,
        ARFCN_1,
        ARFCN_14,
        ARFCN_512,
        ARFCN_885
ENDARRAY
```

/*

14, 0	ncell 14
44	rxlev 44
1, 0	ncell 1
11	rxlev 11
0, 2	ncell 512
43	rxlev 43
0x75, 3	ncell 885
23	rxlev 23
0, 0, ...	not used

*/

```
BEGIN_PSTRUCT("result", NCELL_RES_14z)
        SET_COMP("radio_freq", ARFCN_14)
        SET_COMP("rxlev", 44)
ENDSTRUCT


BEGIN_PSTRUCT("result", NCELL_RES_1z)
        SET_COMP("radio_freq", ARFCN_1)
        SET_COMP("rxlev", 11)
ENDSTRUCT


BEGIN_PSTRUCT("result", NCELL_RES_512z)
        SET_COMP("radio_freq", ARFCN_512)
        SET_COMP("rxlev", 43)
ENDSTRUCT


BEGIN_PSTRUCT("result", NCELL_RES_885z)
        SET_COMP("radio_freq", ARFCN_885)
        SET_COMP("rxlev", 23)
ENDSTRUCT


BEGIN_PSTRUCT_ARRAY (NCELL_RES_SC_637_4_1, 8)
        NCELL_RES_14z,
        NCELL_RES_1z,
        NCELL_RES_512z,
        NCELL_RES_885z,
        NCELL_RESULT_NO_CONTENT_1,
        NCELL_RESULT_NO_CONTENT_1,
        NCELL_RESULT_NO_CONTENT_1,
        NCELL_RESULT_NO_CONTENT_1
ENDARRAY



BEGINARRAY_PART (NCELLS_SC_1800_4_1_RXLEVS, 4)
        11,44,43,23
ENDARRAY
```

```
BEGINARRAY_PART (NCELLS_SC_1800_4_1_BSICS, 4)
        1,1,1,1
ENDARRAY


BEGIN_LONG_ARRAY_PART (NCELLS_SC_1800_4_1_TA, 4)
        TIME_ALIGNMT_14,
        TIME_ALIGNMT_14,
        TIME_ALIGNMT_14,
        TIME_ALIGNMT_14
ENDARRAY


BEGIN_LONG_ARRAY_PART (NCELLS_SC_1800_4_1_FO, 4)
        FN_OFFSET_14,
        FN_OFFSET_14,
        FN_OFFSET_14,
        FN_OFFSET_14
ENDARRAY


BEGIN_PSTRUCT("ncells", NCELLS_SC_1800_4_1)
        SET_COMP("no_of_ncells", 4)
        SET_COMP("arfcn", CHLIST_1_14_512_885)
        SET_COMP("rx_lev", NCELLS_SC_1800_4_1_RXLEVS)
        SET_COMP("bsic", NCELLS_SC_1800_4_1_BSICS)
        SET_COMP("time_alignmt", NCELLS_SC_1800_4_1_TA)
        SET_COMP("frame_offset", NCELLS_SC_1800_4_1_FO)
ENDSTRUCT


BEGIN_PSTRUCT ("chan_list", CHLIST_578_1_14_25_124_512_580_637_885)
        SET_COMP("radio_freq", RF_578_1_14_25_124_512_580_637_885)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (RF_578_1_14_25_124_512_580_637_885, 9)
        ARFCN_578,
        ARFCN_1,
        ARFCN_14,
        ARFCN_25,
        ARFCN_124,
        ARFCN_512,
        ARFCN_580,
        ARFCN_637,
        ARFCN_885
ENDARRAY

/*
```

0x42, 2	serving cell 578
30	rxlev 30
14, 0	ncell 14
44	rxlev 44
25, 0	ncell 25

55	rxlev 55
124, 0	ncell 124
12	rxlev 12
0, 2	ncell 512
43	rxlev 43
0x44, 2	ncell 580
25	rxlev 25
0x7d, 2	ncell 637
56	rxlev 56
0x75, 3	ncell 885
25	rxlev 25

*/

```
BEGIN_PSTRUCT("result", NCELL_RES_578y)
        SET_COMP("radio_freq", ARFCN_578)
        SET_COMP("rxlev", 30)
ENDSTRUCT


BEGIN_PSTRUCT("result", NCELL_RES_14y)
        SET_COMP("radio_freq", ARFCN_14)
        SET_COMP("rxlev", 44)
ENDSTRUCT


BEGIN_PSTRUCT("result", NCELL_RES_25y)
        SET_COMP("radio_freq", ARFCN_25)
        SET_COMP("rxlev", 55)
ENDSTRUCT


BEGIN_PSTRUCT("result", NCELL_RES_124y)
        SET_COMP("radio_freq", ARFCN_124)
        SET_COMP("rxlev", 12)
ENDSTRUCT


BEGIN_PSTRUCT("result", NCELL_RES_512y)
        SET_COMP("radio_freq", ARFCN_512)
        SET_COMP("rxlev", 43)
ENDSTRUCT


BEGIN_PSTRUCT("result", NCELL_RES_580y)
        SET_COMP("radio_freq", ARFCN_580)
        SET_COMP("rxlev", 25)
ENDSTRUCT


BEGIN_PSTRUCT("result", NCELL_RES_637y)
        SET_COMP("radio_freq", ARFCN_637)
        SET_COMP("rxlev", 56)
ENDSTRUCT
```

```
BEGIN_PSTRUCT("result", NCELL_RES_885y)
        SET_COMP("radio_freq", ARFCN_885)
        SET_COMP("rxlev", 25)
ENDSTRUCT


BEGIN_PSTRUCT_ARRAY(NCELL_RES_SC_578_8,8)
        NCELL_RES_578y,
        NCELL_RES_14y,
        NCELL_RES_25y,
        NCELL_RES_124y,
        NCELL_RES_512y,
        NCELL_RES_580y,
        NCELL_RES_637y,
        NCELL_RES_885y
ENDARRAY

/*
```

0	status inactive

```
*/
BEGIN_PSTRUCT ("cbch", NO_CBCH)
        SKIP_COMP ("stat")
        SKIP_COMP ("ch")
        SKIP_COMP ("tn")
        SKIP_COMP ("tsc")
        SKIP_COMP ("h")
        SKIP_COMP ("arfcn")
        SKIP_COMP ("maio")
        SKIP_COMP ("hsn")
        SKIP_COMP ("ma")
ENDSTRUCT

/*
```

1	status active
8	channel type SDCCH/8(5)
3	timeslot number
3	training sequence code
1	hopping
0,0	channel number (only h=0)
1	mobile allocation index offset
0	hopping sequence number
0E,00,...	mobile allocation list

```
*/
BEGIN_PSTRUCT ("cbch", CBCH_DESCRIPTION_8)
        SET_COMP ("stat", STAT_ACT)
        SET_COMP ("ch", CH_SDCCH_8_0)
        SET_COMP ("tn", 3)
        SET_COMP ("tsc", 3)
        SET_COMP ("h", H_FREQ)
        SET_COMP ("arfcn", 0)
        SET_COMP ("maio", 1)
        SET_COMP ("hsn", 0)
```

```
        SET_COMP ("ma", CBCH_DESCRIPTION_8_MA)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (CBCH_DESCRIPTION_8_MA, 5)
        0x0E,
        0x17,
        0x45,
        0x73,
        NOT_PRESENT_16BIT
ENDARRAY

/*
```

1	status active
4	channel type SDCCH/4(3)
0	timeslot number
3	training sequence code
1	hopping
0,0	channel number (only h=0)
1	mobile allocation index offset
0	hopping sequence number
0E,00,...	mobile allocation list

```
*/
BEGIN_PSTRUCT ("cbch", CBCH_DESCRIPTION_4)
        SET_COMP ("stat", STAT_ACT)
        SET_COMP ("ch", 4 )    /*CH_SDCCH_4_0) */
        SET_COMP ("tn", 0)
        SET_COMP ("tsc", 3)
        SET_COMP ("h", H_FREQ)
        SET_COMP ("arfcn", 0)
        SET_COMP ("maio", 1)
        SET_COMP ("hsn", 0)
        SET_COMP ("ma", CBCH_DESCRIPTION_4_MA)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (CBCH_DESCRIPTION_4_MA, 5)
        0x0E, 0x17, 0x45, 0x73, NOT_PRESENT_16BIT
ENDARRAY

/*
```

0	empty neighbour cell results

```
*/
BEGIN_PSTRUCT ("l2_frame", L2_NO_CONTENT)
        SET_COMP ("content", EMPTY_FRAME)
ENDSTRUCT

BEGINARRAY_PART (EMPTY_FRAME, 1)
        0
ENDARRAY


BEGIN_PSTRUCT ("ncells", NCELLS_NO_CONTENT)
        SKIP_COMP("no_of_ncells")
        SKIP_COMP("arfcn")
```

```
        SKIP_COMP("rx_lev")
        SKIP_COMP("bsic")
        SKIP_COMP("time_alignmt")
        SKIP_COMP("frame_offset")
ENDSTRUCT

/*
```

23, 0	serving cell 23
56	rxlev 56
1, 0	ncell 1
12	rxlev 12
14, 0	ncell 14
44	rxlev 44
124, 0	ncell 124
25	rxlev 25
23, 0	serving cell 23
56	rxlev 56
1, 0	ncell 1
12	rxlev 12
14, 0	ncell 14
44	rxlev 44
124, 0	ncell 124
25	rxlev 25

```
*/
BEGIN_PSTRUCT("result", NCELL_RESULT_NO_CONTENT_1)
        SKIP_COMP("radio_freq")
        SKIP_COMP("rxlev")
ENDSTRUCT

BEGIN_PSTRUCT_ARRAY (NCELL_RESULT_NO_CONTENT, 8)
        NCELL_RESULT_NO_CONTENT_1,
        NCELL_RESULT_NO_CONTENT_1,
        NCELL_RESULT_NO_CONTENT_1,
        NCELL_RESULT_NO_CONTENT_1,
        NCELL_RESULT_NO_CONTENT_1,
        NCELL_RESULT_NO_CONTENT_1,
        NCELL_RESULT_NO_CONTENT_1,
        NCELL_RESULT_NO_CONTENT_1
ENDARRAY


BEGIN_PSTRUCT("result", NCELL_RESULT_23a)
        SET_COMP("radio_freq", ARFCN_23)
        SET_COMP("rxlev", 56)
ENDSTRUCT


BEGIN_PSTRUCT("result", NCELL_RESULT_1a)
        SET_COMP("radio_freq", ARFCN_1)
        SET_COMP("rxlev", 12)
ENDSTRUCT
```

```
BEGIN_PSTRUCT("result", NCELL_RESULT_14a)
        SET_COMP("radio_freq", ARFCN_14)
        SET_COMP("rxlev", 44)
ENDSTRUCT


BEGIN_PSTRUCT("result", NCELL_RESULT_124a)
        SET_COMP("radio_freq", ARFCN_124)
        SET_COMP("rxlev", 25)
ENDSTRUCT


BEGIN_PSTRUCT_ARRAY (NCELL_RESULT_1, 8)
        NCELL_RESULT_23a,
        NCELL_RESULT_1a,
        NCELL_RESULT_14a,
        NCELL_RESULT_124a,
        NCELL_RESULT_23a,
        NCELL_RESULT_1a,
        NCELL_RESULT_14a,
        NCELL_RESULT_124a
ENDARRAY

/*
```

3	number of neighbour cells
1, 0	ncell 1
14, 0	ncell 14
124, 0	ncell 124
0, 0, ...	not used (three channel numbers)
12, 44, 25	rxlev ncell 1, 14, 124
0, 0, 0	not used (rxlev three channel numbers)
1, 1, 1	bsic ncell 1, 14, 124
0, 0, 0	not used (bsic three channel numbers)
1, 0, 14, 0, 124, 0	timing advance ncell 1, 14, 124
0, 0, 0, 0, 0, 0	not used (timing advance three channel numbers)

```
*/
BEGIN_SHORT_ARRAY_PART (CHLIST_1_14_124, 3)
        ARFCN_1,
        ARFCN_14,
        ARFCN_124
ENDARRAY


BEGINARRAY_PART(NCELLS_1_14_124_RXLEVS, 3)
        12,44,25
ENDARRAY
```

```
BEGINARRAY_PART(NCELLS_1_14_124_BSICS, 3)
        1,1,1
ENDARRAY


BEGIN_LONG_ARRAY(NCELLS_1_14_124_TA, 6)
        1,14,124,0,0,0
ENDARRAY


BEGIN_LONG_ARRAY(NCELLS_1_14_124_FO, 6)
        0x65,0x72,0xE0,0x00,0x00,0x00
ENDARRAY

BEGIN_PSTRUCT("ncells", NCELLS_1_14_124)
        SET_COMP("no_of_ncells", NO_OF_CELLS_3)
        SET_COMP("arfcn", CHLIST_1_14_124)
        SET_COMP("rx_lev", NCELLS_1_14_124_RXLEVS)
        SET_COMP("bsic", NCELLS_1_14_124_BSICS)
        SET_COMP("time_alignmt", NCELLS_1_14_124_TA)
        SET_COMP("frame_offset", NCELLS_1_14_124_FO)
ENDSTRUCT

BEGINARRAY_PART(NCELLS_14_BSIC_PBCCH, 1)
        BSIC_1
ENDARRAY
BEGINARRAY_PART(NCELLS_124_BSIC_PBCCH, 1)
        NOT_PRESENT_8BIT
ENDARRAY
BEGINARRAY_PART(NCELLS_10_BSIC_PBCCH, 1)
        BSIC_2
ENDARRAY
BEGIN_SHORT_ARRAY_PART (CHLIST_14_PBCCH, 1)
        ARFCN_14
ENDARRAY
BEGIN_SHORT_ARRAY_PART (CHLIST_124_PBCCH, 1)
        ARFCN_124
ENDARRAY
BEGIN_SHORT_ARRAY_PART (CHLIST_10_PBCCH, 1)
        ARFCN_10
ENDARRAY

BEGIN_PSTRUCT("ncells", NCELLS_14_PBCCH)
        SET_COMP("no_of_ncells", 1)
        SET_COMP("arfcn", CHLIST_14_PBCCH)
        SKIP_COMP("rx_lev")
        SET_COMP("bsic", NCELLS_14_BSIC_PBCCH)
        SKIP_COMP("time_alignmt")
        SKIP_COMP("frame_offset")
ENDSTRUCT

BEGIN_PSTRUCT("ncells", NCELLS_124_PBCCH)
        SET_COMP("no_of_ncells", 1)
        SET_COMP("arfcn", CHLIST_124_PBCCH)
```

```
        SKIP_COMP("rx_lev")
        SET_COMP("bsic", NCELLS_124_BSIC_PBCCH)
        SKIP_COMP("time_alignmt")
        SKIP_COMP("frame_offset")
ENDSTRUCT

BEGIN_PSTRUCT("ncells", NCELLS_10_PBCCH)
        SET_COMP("no_of_ncells", 1)
        SET_COMP("arfcn", CHLIST_10_PBCCH)
        SKIP_COMP("rx_lev")
        SET_COMP("bsic", NCELLS_10_BSIC_PBCCH)
        SKIP_COMP("time_alignmt")
        SKIP_COMP("frame_offset")
ENDSTRUCT

BEGIN_PSTRUCT("ncells", NO_NCELLS)
        SET_COMP("no_of_ncells", 0)
        SKIP_COMP("arfcn")
        SKIP_COMP("rx_lev")
        SKIP_COMP("bsic")
        SKIP_COMP("time_alignmt")
        SKIP_COMP("frame_offset")
ENDSTRUCT

/*
```

2	number of neighbour cells
1, 0	ncell 1
14, 0	ncell 14
0, 0, ...	not used (four channel numbers)
12, 44	rxlev ncell 1, 14
0, 0, 0, 0	not used (rxlev four channel numbers)
16, 16	bsic ncell 1, 14
0, 0, 0, 0	not used (bsic four channel numbers)
1, 0, 14, 0	timing advance ncell 1, 14
0, 0, ...	not used (timing advance four channel numbers)

```
*/
BEGIN_SHORT_ARRAY_PART(CHLIST_1_14, 2)
        ARFCN_1,
        ARFCN_14
ENDARRAY


BEGINARRAY_PART(NCELLS_1_14_NCC_RXLEVS, 2)
        12, 44
ENDARRAY


BEGINARRAY_PART(NCELLS_1_14_NCC_BSICS, 2)
        16,16
ENDARRAY
```

```
BEGIN_LONG_ARRAY_PART(NCELLS_1_14_NCC_TA, 2)
        1, 14
ENDARRAY


BEGIN_LONG_ARRAY_PART(NCELLS_1_14_NCC_FO, 2)
        101, 114      /* not interpreted in old TAP  */
ENDARRAY


BEGIN_PSTRUCT("ncells", NCELLS_1_14_NCC)
        SET_COMP("no_of_ncells", 2)
        SET_COMP("arfcn", CHLIST_1_14)
        SET_COMP("rx_lev", NCELLS_1_14_NCC_RXLEVS)
        SET_COMP("bsic", NCELLS_1_14_NCC_BSICS)
        SET_COMP("time_alignmt", NCELLS_1_14_NCC_TA)
        SET_COMP("frame_offset", NCELLS_1_14_NCC_FO)
ENDSTRUCT

/*
```

2	number of neighbour cells
1, 0, 124, 0	ncell 1 and 124
0, 0, ...	not used (four channel numbers)
12, 25	rxlev ncell 1 and 124
0, 0, ...	not used (rxlev four channel numbers)
1,1	bsic ncell 1 and 124
0, 0, ...	not used (bsic four channel numbers)
1, 0, 124, 0	timing advance ncell 1 and 124
0, 0, ...	not used (timing advance four channel numbers)

```
*/
BEGIN_SHORT_ARRAY_PART(CHLIST_1_124, 2)
        ARFCN_1,
        ARFCN_124
ENDARRAY


BEGINARRAY_PART(NCELLS_1_124_RXLEVS, 2)
        12, 25
ENDARRAY


BEGINARRAY_PART(NCELLS_1_124_BSICS, 2)
        1,1
ENDARRAY


BEGIN_LONG_ARRAY_PART(NCELLS_1_124_TA, 2)
        1, 124
ENDARRAY
```

```
BEGIN_LONG_ARRAY_PART(NCELLS_1_124_FO, 2)
        101, 224        /* not interpreted in old tap → wrong field length */
ENDARRAY


BEGIN_PSTRUCT("ncells", NCELLS_1_124)
        SET_COMP("no_of_ncells", 2)
        SET_COMP("arfcn", CHLIST_1_124)
        SET_COMP("rx_lev", NCELLS_1_124_RXLEVS)
        SET_COMP("bsic", NCELLS_1_124_BSICS)
        SET_COMP("time_alignmt", NCELLS_1_124_TA)
        SET_COMP("frame_offset", NCELLS_1_124_FO)
ENDSTRUCT

/*
```

0	not continous
2	2 random bursts
5, 7	delta (two random bursts)
0, 0, ...	not used (six random bursts)
0xA0, 0xA3	channel request content (two random bursts)
0, 0, ...	not used (six random bursts)

```
*/
BEGIN_PSTRUCT ("send_mode", TWO_BURSTS)
        SKIP_COMP ("c")
        SET_COMP ("no", RAND_BURSTS_2)
        SET_COMP ("delta", BURST_DELTA)
        SET_COMP ("rach", BURST_RACH)
ENDSTRUCT

BEGINARRAY (BURST_DELTA, 8)
        5,7,0,0,0,0,0,0
ENDARRAY

BEGINARRAY (BURST_RACH, 8)
        0xA0,0xA3,0,0,0,0,0,0
ENDARRAY

/*
```

0	no starting time present
0	n32
0	n51
0	n26

```
*/
BEGIN_PSTRUCT ("starting_time", NO_STARTING_TIME)
        SET_COMP ("start_time_present", 0)
        SKIP_COMP ("start_time")
ENDSTRUCT

/*
```

1	starting time present

11	t1
22	t2
33	t3

```
*/
BEGIN_PSTRUCT ("start", STARTING_TIME)
        SET_COMP ("v_start", 1)
        SET_COMP ("t1", 11)
        SET_COMP ("t2", 22)
        SET_COMP ("t3", 33)
ENDSTRUCT

/*
```

1	starting time present
11	n32
33	n51
22	n26

```
*/
BEGIN_PSTRUCT ("starting_time", S_TIME_MPHC)
        SET_COMP ("start_time_present", 1)
        SET_COMP ("start_time", S_TIME_MPHC_ST)
ENDSTRUCT


BEGIN_PSTRUCT ("start_time", S_TIME_MPHC_ST)
        SET_COMP ("t1", 11)
        SET_COMP ("t3", 33)
        SET_COMP ("t2", 22)
ENDSTRUCT

/*
```

1	starting time present
11	t1
22	t2
33	t3

```
*/
BEGIN_PSTRUCT ("start", STARTING_TIME_T1)
        SET_COMP ("v_start", 1)
        SET_COMP ("t1", 11)
        SET_COMP ("t2", 22)
        SET_COMP ("t3", 33)
ENDSTRUCT

/*
```

1	starting time present
11	n32
33	n51
22	n26

```
*/
BEGIN_PSTRUCT ("starting_time", S_TIME_T1)
        SET_COMP ("start_time_present", 1)
        SET_COMP ("start_time", S_TIME_T1_ST)
ENDSTRUCT
```

```
BEGIN_PSTRUCT ("start_time", S_TIME_T1_ST)
        SET_COMP ("t1", 11)
        SET_COMP ("t3", 33)
        SET_COMP ("t2", 22)
ENDSTRUCT

/*
```

1	starting time present
45	t1
22	t2
33	t3

```
*/
BEGIN_PSTRUCT ("start", STARTING_TIME_T2)
        SET_COMP ("v_start", 1)
        SET_COMP ("t1", 45)
        SET_COMP ("t2", 22)
        SET_COMP ("t3", 33)
ENDSTRUCT

/*
```

1	starting time present
45	n32
33	n51
22	n26

```
*/
BEGIN_PSTRUCT ("starting_time", S_TIME_T2)
        SET_COMP ("start_time_present", 1)
        SET_COMP ("start_time", S_TIME_T2_ST)
ENDSTRUCT

BEGIN_PSTRUCT ("start_time", S_TIME_T2_ST)
        SET_COMP ("t1", 45)
        SET_COMP ("t3", 33)
        SET_COMP ("t2", 22)
ENDSTRUCT

/*
```

0	not continous
0	0 random bursts (equal stop burst sending)
0, 0, ...	not used (eight random bursts)
0, 0, ...	not used (eight random bursts)

```
*/
BEGIN_PSTRUCT ("send_mode", STOP_BURSTS)
        SKIP_COMP ("c")
        SKIP_COMP ("no")
        SKIP_COMP ("delta")
        SKIP_COMP ("rach")
ENDSTRUCT

/*
```

14	T1

22	T2
30	T3

*/
```
BEGIN_PSTRUCT ("frame_no", T123_BURST_1)
        SET_COMP ("t1", 14)
        SET_COMP ("t2", 22)
        SET_COMP ("t3", 30)
ENDSTRUCT

/*
```

0x0D	channel type SDCCH/8(5) → SDCCH/8(0) used
0	timeslot number
0	training sequence code
1	hopping
0,0	channel number (only h=0)
1	mobile allocation index offset
0	hopping sequence number
0E,00,...	mobile allocation list

*/
```
BEGIN_PSTRUCT ("ch_type", CH_TYPE_HOP)
        SET_COMP ("ch", CH_SDCCH_8_0)        /* see TABLE */
        SET_COMP ("tn", 0)
        SET_COMP ("tsc", 0)
        SET_COMP ("h", 1)
        SET_COMP ("arfcn", 0)
        SET_COMP ("maio", 1)
        SET_COMP ("hsn", 0)
        SET_COMP ("ma", CHLIST_14_23_69_115_FFFF)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (CHLIST_14_23_69_115_FFFF, 5)
        ARFCN_14,
        ARFCN_23,
        ARFCN_69,
        ARFCN_115,
        NOT_PRESENT_16BIT
ENDARRAY

/*
```

0x0D	channel type SDCCH/8(5)
1	timeslot number
0	training sequence code
1	hopping
0,0	channel number (only h=0)
1	mobile allocation index offset
0	hopping sequence number
0E,00,...	mobile allocation list

*/
```
BEGINARRAY (CH_TYPE_SDCCH2, 138)
        8,1,0,1,0,0,1,0,
        0x0E,0x00,
```

```
        0x17,0x00,
        0x45,0x00,
        0x73,0x00,
        0xFF,0xFF,
        0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
        0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
        0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
        0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
        0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
        0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
        0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
        0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
        0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
        0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
        0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00
ENDARRAY

/*
```

0x0D	channel type SDCCH/8(5)
3	timeslot number
0	training sequence code
1	hopping
0,0	channel number (only h=0)
1	mobile allocation index offset
0	hopping sequence number
0E,00,...	mobile allocation list

```
*/
BEGINARRAY (CH_TYPE_SDCCH3, 138)
        8,3,0,1,0,0,1,0,
        0x0E,0x00,
        0x17,0x00,
        0x45,0x00,
        0x73,0x00,
        0xFF,0xFF,
        0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
        0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
        0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
        0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
        0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
        0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
        0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
        0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
        0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
        0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
        0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,
        0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00,0x00
ENDARRAY

/*
```

8	channel type SDCCH/8
4	timeslot number
0	training sequence code

1	hopping
0,0	channel number (only h=0)
1	mobile allocation index offset
0	hopping sequence number
0E,00,...	mobile allocation list

```
*/
BEGIN_PSTRUCT ("ch_type", CH_TYPE_SDCCH4)
        SET_COMP ("ch", CH_SDCCH_8_0)        /* see TABLE */
        SET_COMP ("tn", 4)
        SET_COMP ("tsc", 0)
        SET_COMP ("h", 1)
        SET_COMP ("arfcn", 0)
        SET_COMP ("maio", 1)
        SET_COMP ("hsn", 0)
        SET_COMP ("ma", CHLIST_14_23_69_115_FFFF)
ENDSTRUCT


/*
```

0x01	channel type TCH
1	timeslot number
0	training sequence code
1	hopping
0,0	channel number (only h=0)
1	mobile allocation index offset
0	hopping sequence number
0E,00,...	mobile allocation list

```
*/
BEGIN_PSTRUCT ("ch_type", CH_TYPE_TCH2)
        SET_COMP ("ch", 0x01)
        SET_COMP ("tn", 1)
        SET_COMP ("tsc", 0)
        SET_COMP ("h", 1)
        SET_COMP ("arfcn", 0)
        SET_COMP ("maio", 1)
        SET_COMP ("hsn", 0)
        SET_COMP ("ma", CHLIST_14_23_69_115_FFFF)
ENDSTRUCT

/*
```

0x1	channel type TCH
3	timeslot number
0	training sequence code
1	hopping
0,0	channel number (only h=0)
1	mobile allocation index offset
0	hopping sequence number
0E,00,...	mobile allocation list

```
*/
BEGIN_PSTRUCT ("ch_type", CH_TYPE_TCH3)
        SET_COMP ("ch", 0x01)
        SET_COMP ("tn", 3)
```

```
        SET_COMP ("tsc", 0)
        SET_COMP ("h", 1)
        SET_COMP ("arfcn", 0)
        SET_COMP ("maio", 1)
        SET_COMP ("hsn", 0)
        SET_COMP ("ma", CHLIST_14_23_69_115_FFFF)
ENDSTRUCT

/*
```

0x0	channel type
3	timeslot number
6	training sequence code
0	hopping
0	channel number (only h=0)
0	mobile allocation index offset
0	hopping sequence number
00,00,...	mobile allocation list

```
*/
BEGIN_PSTRUCT ("ch_type", CH_TYPE2)
        SET_COMP ("ch", 0x00)
        SET_COMP ("tn", 3)
        SET_COMP ("tsc", 6)
        SET_COMP ("h", 0)
        SET_COMP ("arfcn", 0)
        SET_COMP ("maio", 0)
        SET_COMP ("hsn", 0)
        SET_COMP ("ma", CHLIST_0)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (CHLIST_0, 1)
        0x00
ENDARRAY

/*
```

1	channel type TCH
1	timeslot number
5	training sequence code
1	hopping
0,0	channel number (only h=0)
0	mobile allocation index offset
1	hopping sequence number
....	mobile allocation list

```
*/
BEGIN_PSTRUCT ("ch_type", CH_TYPE_IMM_ASS)
        SET_COMP ("ch", CH_TCH_F)
        SET_COMP ("tn", 1)
        SET_COMP ("tsc", 5)
        SET_COMP ("h", H_FREQ)
        SET_COMP ("arfcn", 0)
        SET_COMP ("maio", 0)
        SET_COMP ("hsn", 1)
        SET_COMP ("ma", CHLIST_26_34_42_52_59_FFFF)
ENDSTRUCT
```

```
BEGIN_SHORT_ARRAY_PART (CHLIST_26_34_42_52_59_FFFF, 6)
        ARFCN_26,
        ARFCN_34,
        ARFCN_42,
        ARFCN_52,
        ARFCN_59,
        NOT_PRESENT_16BIT
ENDARRAY

/*
```

1	channel type TCH
1	timeslot number
5	training sequence code
1	hopping
0,0	channel number (only h=0)
1	mobile allocation index offset
1	hopping sequence number
....	mobile allocation list

```
*/
BEGIN_PSTRUCT ("ch_type", CH_TYPE_FREQ_REDEF)
        SET_COMP ("ch", CH_TCH_F)
        SET_COMP ("tn", 1)
        SET_COMP ("tsc", 5)
        SET_COMP ("h", H_FREQ)
        SET_COMP ("arfcn", 0)
        SET_COMP ("maio", 1)
        SET_COMP ("hsn", 1)
        SET_COMP ("ma", CHLIST_10_52_59_73_108_114_FFFF)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (CHLIST_10_52_59_73_108_114_FFFF, 7)
        ARFCN_10,
        ARFCN_52,
        ARFCN_59,
        ARFCN_73,
        ARFCN_108,
        ARFCN_114,
        NOT_PRESENT_16BIT
ENDARRAY

/*
```

1	channel type TCH
0	timeslot number
5	training sequence code
1	hopping
0,0	channel number (only h=0)
0	mobile allocation index offset
1	hopping sequence number
....	mobile allocation list

```
*/
BEGIN_PSTRUCT ("ch_type", CH_TYPE_ASS_AFTER)
        SET_COMP ("ch", CH_TCH_F)
```

```
        SET_COMP ("tn", 0)
        SET_COMP ("tsc", 5)
        SET_COMP ("h", H_FREQ)
        SET_COMP ("arfcn", 0)
        SET_COMP ("maio", 0)
        SET_COMP ("hsn", 1)
        SET_COMP ("ma", CHLIST_73_74_75_76_FFFF)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (CHLIST_73_74_75_76_FFFF, 5)
        ARFCN_73,
        ARFCN_74,
        ARFCN_75,
        ARFCN_76,
        NOT_PRESENT_16BIT
ENDARRAY

/*
```

1	channel type TCH
0	timeslot number
5	training sequence code
1	hopping
0,0	channel number (only h=0)
1	mobile allocation index offset
7	hopping sequence number
....	mobile allocation list

```
*/
BEGIN_PSTRUCT ("ch_type", CH_TYPE_ASS_BEFORE)
        SET_COMP ("ch", CH_TCH_F)
        SET_COMP ("tn", 0)
        SET_COMP ("tsc", 5)
        SET_COMP ("h", H_FREQ)
        SET_COMP ("arfcn", 0)
        SET_COMP ("maio", 1)
        SET_COMP ("hsn", 7)
        SET_COMP ("ma", CHLIST_46_52_59_66_73_74_FFFF)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (CHLIST_46_52_59_66_73_74_FFFF, 7)
        ARFCN_46,
        ARFCN_52,
        ARFCN_59,
        ARFCN_66,
        ARFCN_73,
        ARFCN_74,
        NOT_PRESENT_16BIT
ENDARRAY


/*
```

0	ho_ref
0	ho_pow
0	ho_acc_type

0	ho_nci

```
*/
BEGIN_PSTRUCT ("ho_param", HO_PARAM)
        SET_COMP ("ho_ref", NCI_TA_OUT_OF_RANGE_OK)
        SET_COMP ("ho_pow", 0)
        SET_COMP ("ho_acc_type", 0)
        SET_COMP ("ho_nci", 0)
ENDSTRUCT

/*
```

23	ho_ref
10	ho_pow
0	ho_acc_type
0	ho_nci

```
*/
BEGIN_PSTRUCT ("ho_param", HO_PARAM_1)
        SET_COMP ("ho_ref", HO_REF)
        SET_COMP ("ho_pow", HO_POW)
        SET_COMP ("ho_acc_type", 0)
        SET_COMP ("ho_nci", 0)
ENDSTRUCT

/*
```

10	power
0	dtx
5	rlt
30	tav
0	pwrc
MODE_SPEECH_VER1	mode

```
*/
BEGIN_PSTRUCT ("tr_para", TR_PARAM)
        SET_COMP ("power", 10)
        SET_COMP ("dtx", DTX_NOT_USED)
        SET_COMP ("rlt", 5)
        SET_COMP ("tav", 30)
        SET_COMP ("pwrc", PWRC_NOT_SET)
        SET_COMP ("mode", MODE_SPEECH_VER1)
ENDSTRUCT

/*
```

0	stat
0	algo
0,1,2,3,4,5,6,7	kc

```
*/
BEGIN_PSTRUCT ("ciph", CIPH_PARAM)
        SET_COMP ("stat", STAT_CIPH_OFF)
        SET_COMP ("algo", ALGO_A5_1)
        SET_COMP ("kc", CIPH_PARAM_KC)
ENDSTRUCT
```

```
BEGINARRAY (CIPH_PARAM_KC, 8)
        0,1,2,3,4,5,6,7
ENDARRAY

/*
```

0x01	h
0x01	maio
0x00	hsn
0x04	channel_type (SDCCH/8)
0x05	sub_channel 5
0x03	timeslot_no
0x06	tsc

```
*/
BEGIN_PSTRUCT ("channel_desc", CHANNEL_DESC_1)
        SET_COMP ("chan_sel", CHAN_SEL_1)
        SET_COMP ("channel_type",  0x04)
        SET_COMP ("sub_channel", 0)
        SET_COMP ("timeslot_no", 0)
        SET_COMP ("tsc", 0)
ENDSTRUCT

BEGIN_PSTRUCT ("chan_sel", CHAN_SEL_1)
        SET_COMP ("h", 1)
        SET_COMP ("rf_channel", RF_CHANNEL_1)
ENDSTRUCT

BEGIN_PSTRUCT ("rf_channel", RF_CHANNEL_1)
        SET_COMP ("maio", 1)
        SET_COMP ("hsn", 0)
ENDSTRUCT

/*
```

0x01	h
0x01	maio
0x00	hsn
0x04	channel_type (SDCCH/8)
0x00	sub_channel 0
0x01	timeslot_no
0x00	tsc

```
*/
BEGIN_PSTRUCT ("channel_desc", CHANNEL_DESC_2)
        SET_COMP ("chan_sel", CHAN_SEL_10)
        SET_COMP ("channel_type",  0x04)
        SET_COMP ("sub_channel", 0)
        SET_COMP ("timeslot_no", 1)
        SET_COMP ("tsc", 0)
ENDSTRUCT

BEGIN_PSTRUCT ("chan_sel", CHAN_SEL_10)
        SET_COMP ("h", 1)
        SET_COMP ("rf_channel", RF_CHANNEL_10)
```

```
ENDSTRUCT

BEGIN_PSTRUCT ("rf_channel", RF_CHANNEL_10)
        SET_COMP ("maio", 1)
        SET_COMP ("hsn", 0)
ENDSTRUCT

/*
```

0x01	h
0x01	maio
0x00	hsn
0x04	channel_type (SDCCH/8)
0x00	sub_channel 0
0x03	timeslot_no
0x00	tsc

```
*/
BEGIN_PSTRUCT ("channel_desc", CHANNEL_DESC_3)
        SET_COMP ("chan_sel", CHAN_SEL_9)
        SET_COMP ("channel_type",  0x04)
        SET_COMP ("sub_channel", 0)
        SET_COMP ("timeslot_no", 3)
        SET_COMP ("tsc", 0)
ENDSTRUCT

BEGIN_PSTRUCT ("chan_sel", CHAN_SEL_9)
        SET_COMP ("h", 1)
        SET_COMP ("rf_channel", RF_CHANNEL_9)
ENDSTRUCT

BEGIN_PSTRUCT ("rf_channel", RF_CHANNEL_9)
        SET_COMP ("maio", 1)
        SET_COMP ("hsn", 0)
ENDSTRUCT

/*
```

0x01	h
0x01	maio
0x00	hsn
0x04	channel_type (SDCCH/8)
0x00	sub_channel 0
0x04	timeslot_no
0x00	tsc

```
*/
BEGIN_PSTRUCT ("channel_desc", CHANNEL_DESC_4)
        SET_COMP ("chan_sel", CHAN_SEL_8)
        SET_COMP ("channel_type",  0x04)
        SET_COMP ("sub_channel", 0)
        SET_COMP ("timeslot_no", 4)
        SET_COMP ("tsc", 0)
ENDSTRUCT
```

```
BEGIN_PSTRUCT ("chan_sel", CHAN_SEL_8)
        SET_COMP ("h", 1)
        SET_COMP ("rf_channel", RF_CHANNEL_8)
ENDSTRUCT

BEGIN_PSTRUCT ("rf_channel", RF_CHANNEL_8)
        SET_COMP ("maio", 1)
        SET_COMP ("hsn", 0)
ENDSTRUCT

/*
```

0x01	h
0x01	maio
0x00	hsn
0x01	channel_type (TCH)
0x00	sub_channel 0
0x01	timeslot_no
0x00	tsc

```
*/
BEGIN_PSTRUCT ("channel_desc", CHANNEL_DESC_2_TCH)
        SET_COMP ("chan_sel", CHAN_SEL_7)
        SET_COMP ("channel_type",  0x01)
        SET_COMP ("sub_channel", 0)
        SET_COMP ("timeslot_no", 1)
        SET_COMP ("tsc", 0)
ENDSTRUCT

BEGIN_PSTRUCT ("chan_sel", CHAN_SEL_7)
        SET_COMP ("h", 1)
        SET_COMP ("rf_channel", RF_CHANNEL_7)
ENDSTRUCT

BEGIN_PSTRUCT ("rf_channel", RF_CHANNEL_7)
        SET_COMP ("maio", 1)
        SET_COMP ("hsn", 0)
ENDSTRUCT

/*
```

0x01	h
0x01	maio
0x00	hsn
0x01	channel_type (TCH)
0x00	sub_channel 0
0x03	timeslot_no
0x00	tsc

```
*/
BEGIN_PSTRUCT ("channel_desc", CHANNEL_DESC_3_TCH)
        SET_COMP ("chan_sel", CHAN_SEL_11)
        SET_COMP ("channel_type",  0x01)
```

```
        SET_COMP ("sub_channel", 0)
        SET_COMP ("timeslot_no", 3)
        SET_COMP ("tsc", 0)
ENDSTRUCT

BEGIN_PSTRUCT ("chan_sel", CHAN_SEL_11)
        SET_COMP ("h", 1)
        SET_COMP ("rf_channel", RF_CHANNEL_11)
ENDSTRUCT

BEGIN_PSTRUCT ("rf_channel", RF_CHANNEL_11)
        SET_COMP ("maio", 1)
        SET_COMP ("hsn", 0)
ENDSTRUCT

/*
```

0x01	h
0x01	maio
0x00	hsn
0x04	channel_type (SDCCH/8)
0x00	sub_channel 0
0x03	timeslot_no
0x03	tsc

```
*/
BEGIN_PSTRUCT ("cbch_desc", CHANNEL_DESC_CBCH_8)
        SET_COMP ("chan_sel", CHAN_SEL_4 )
        SET_COMP ("channel_type", 0x04)
        SET_COMP ("sub_channel", 0)
        SET_COMP ("timeslot_no", 3)
        SET_COMP ("tsc", 3)
ENDSTRUCT

BEGIN_PSTRUCT ("chan_sel", CHAN_SEL_4)
        SET_COMP ("h", 1)
        SET_COMP ("rf_channel", RF_CHANNEL_4)
ENDSTRUCT

BEGIN_PSTRUCT ("rf_channel", RF_CHANNEL_4)
        SET_COMP ("maio", 1)
        SET_COMP ("hsn", 0)
ENDSTRUCT

/*
```

0x01	h
0x01	maio
0x00	hsn
0x03	channel_type (SDCCH/4)
0x00	sub_channel 0
0x00	timeslot_no
0x03	tsc

```
*/
BEGIN_PSTRUCT ("cbch_desc", CHANNEL_DESC_CBCH_4)
        SET_COMP ("chan_sel", CHAN_SEL_5)
        SET_COMP ("channel_type", 0x03)
        SET_COMP ("sub_channel", 0)
        SET_COMP ("timeslot_no", 0)
        SET_COMP ("tsc", 3)
ENDSTRUCT

BEGIN_PSTRUCT ("chan_sel", CHAN_SEL_5)
        SET_COMP ("h", 1)
        SET_COMP ("rf_channel", RF_CHANNEL_5)
ENDSTRUCT

BEGIN_PSTRUCT ("rf_channel", RF_CHANNEL_5)
        SET_COMP ("maio", 1)
        SET_COMP ("hsn", 0)
ENDSTRUCT

/*
```

0	ncc
1	mcc
14, 0	arfcn

```
*/
BEGIN_PSTRUCT ("cell_description", CELL_DESCRIPTION_2)
        SET_COMP ("ncc", 0)
        SET_COMP ("bcc", 1)
        SET_COMP ("bcch_carrier", 14)
ENDSTRUCT

BEGIN_PSTRUCT ("cell_description", CELL_DESCRIPTION_3)
        SET_COMP ("ncc", 0)
        SET_COMP ("bcc", 1)
        SET_COMP ("bcch_carrier", 30)
ENDSTRUCT

/*
```

0x01	h
0x00	maio
0x01	hsn
0x01	channel_type (TCH)
0x00	sub_channel 0
0x01	timeslot_no
0x05	tsc

```
*/
BEGIN_PSTRUCT ("channel_desc", CHANNEL_DESC_IA)
        SET_COMP ("chan_sel", CHAN_SEL_2)
        SET_COMP ("channel_type", CH_TCH_F)
        SET_COMP ("sub_channel", 0)
        SET_COMP ("timeslot_no", 1)
        SET_COMP ("tsc", 5)
```

```
ENDSTRUCT

BEGIN_PSTRUCT ("chan_sel", CHAN_SEL_2)
        SET_COMP ("h", 1)
        SET_COMP ("rf_channel", RF_CHANNEL_2)
ENDSTRUCT

BEGIN_PSTRUCT ("rf_channel", RF_CHANNEL_2)
        SET_COMP ("maio", 0)
        SET_COMP ("hsn", 1)
ENDSTRUCT

/*
```

5	# channels
26, 0	1st hopping channel
34 ,0	2nd hopping channel
42, 0	3rd hopping channel
52, 0	4th hopping channel
59, 0	5th hopping channel
0, ...	rest of list

```
*/
BEGIN_PSTRUCT ("frequency_list", FREQ_LIST_IA)
        SET_COMP ("rf_chan_cnt", 5)
        SET_COMP ("rf_chan_no", FREQ_LIST_IA_NO)
ENDSTRUCT

BEGIN_PSTRUCT ("rf_chan_no", FREQ_LIST_IA_NO)
        SET_COMP ("radio_freq", FREQ_LIST_IA_FREQ)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (FREQ_LIST_IA_FREQ, 5)
        26, 34,         42, 52,         59
ENDARRAY

/*
```

0x01	h
0x01	maio
0x01	hsn
0x01	channel_type (TCH)
0x00	sub_channel 0
0x01	timeslot_no
0x05	tsc

```
*/
BEGIN_PSTRUCT ("channel_desc", CHANNEL_DESC_FR)
        SET_COMP ("chan_sel", CHAN_SEL_3)
        SET_COMP ("channel_type", CH_TCH_F)
        SET_COMP ("sub_channel", 0)
```

```
        SET_COMP ("timeslot_no", 1)
        SET_COMP ("tsc", 5)
ENDSTRUCT

BEGIN_PSTRUCT ("chan_sel", CHAN_SEL_3)
        SET_COMP ("h", 1)
        SET_COMP ("rf_channel", RF_CHANNEL_3)
ENDSTRUCT

BEGIN_PSTRUCT ("rf_channel", RF_CHANNEL_3)
        SET_COMP ("maio", 1)
        SET_COMP ("hsn", 1)
ENDSTRUCT

/*
```

6	# channels
10, 0	1st hopping channel
52 ,0	2nd hopping channel
59, 0	3rd hopping channel
73, 0	4th hopping channel
108, 0	5th hopping channel
114, 0	6th hopping channel
0, ...	rest of list

```
*/
BEGIN_PSTRUCT ("frequency_list", FREQ_LIST_FR)
        SET_COMP ("rf_chan_cnt", 6)
        SET_COMP ("rf_chan_no", FREQ_LIST_FR_NO)
ENDSTRUCT

BEGIN_PSTRUCT ("rf_chan_no", FREQ_LIST_FR_NO)
        SET_COMP ("radio_freq", CHLIST_10_52_59_73_108_114)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (CHLIST_10_52_59_73_108_114, 6)
        ARFCN_10,
        ARFCN_52,
        ARFCN_59,
        ARFCN_73,
        ARFCN_108,
        ARFCN_114
ENDARRAY

/*
```

0x01	h
0x00	maio
0x01	hsn
0x01	channel_type

	(TCH)
0x00	sub_channel 0
0x00	timeslot_no
0x05	tsc

*/
```
BEGIN_PSTRUCT ("cbch_desc", CHANNEL_DESC_ASS_AFTER)
        SET_COMP ("chan_sel", CHAN_SEL_6 )
        SET_COMP ("channel_type", CH_TCH_F)
        SET_COMP ("sub_channel", 0)
        SET_COMP ("timeslot_no", 0)
        SET_COMP ("tsc", 5)
ENDSTRUCT

BEGIN_PSTRUCT ("chan_sel", CHAN_SEL_6)
        SET_COMP ("h", 1)
        SET_COMP ("rf_channel", RF_CHANNEL_6)
ENDSTRUCT

BEGIN_PSTRUCT ("rf_channel", RF_CHANNEL_6)
        SET_COMP ("maio", 0)
        SET_COMP ("hsn", 1)
ENDSTRUCT

/*
```

4	# channels
73, 0	1st hopping channel
74 ,0	2nd hopping channel
75, 0	3rd hopping channel
76, 0	4th hopping channel
0, ...	rest of list

*/
```
BEGIN_PSTRUCT ("frequency_list", FREQ_LIST_ASS_AFTER)
        SET_COMP ("rf_chan_cnt", 4)
        SET_COMP ("rf_chan_no", FREQ_LIST_ASS_AFTER_NO)
ENDSTRUCT

BEGIN_PSTRUCT ("rf_chan_no", FREQ_LIST_ASS_AFTER_NO)
        SET_COMP ("radio_freq", CHLIST_73_74_75_76)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (CHLIST_73_74_75_76, 4)
        ARFCN_73,
        ARFCN_74,
        ARFCN_75,
        ARFCN_76
ENDARRAY

/*
```

0x01	h

0x01	maio
0x07	hsn
0x01	channel_type (TCH)
0x00	sub_channel 0
0x00	timeslot_no
0x05	tsc

```
*/
BEGIN_PSTRUCT ("channel_desc", CHANNEL_DESC_ASS_BEFORE)
        SET_COMP ("chan_sel", CHAN_SEL_12)
        SET_COMP ("channel_type", CH_TCH_F)
        SET_COMP ("sub_channel", 0)
        SET_COMP ("timeslot_no", 0)
        SET_COMP ("tsc", 5)
ENDSTRUCT

BEGIN_PSTRUCT ("chan_sel", CHAN_SEL_12)
        SET_COMP ("h", 1)
        SET_COMP ("rf_channel", RF_CHANNEL_12)
ENDSTRUCT

BEGIN_PSTRUCT ("rf_channel", RF_CHANNEL_12)
        SET_COMP ("maio", 1)
        SET_COMP ("hsn", 7)
ENDSTRUCT

/*
```

6	# channels
46, 0	1st hopping channel
52 ,0	2nd hopping channel
59, 0	3rd hopping channel
66, 0	4th hopping channel
73, 0	5th hopping channel
74, 0	6th hopping channel
0, ...	rest of list

```
*/
BEGIN_PSTRUCT ("frequency_list", FREQ_LIST_ASS_BEFORE)
        SET_COMP ("rf_chan_cnt", 6)
        SET_COMP ("rf_chan_no", FREQ_LIST_ASS_BEFORE_NO)
ENDSTRUCT

BEGIN_PSTRUCT ("rf_chan_no", FREQ_LIST_ASS_BEFORE_NO)
        SET_COMP ("radio_freq", CHLIST_46_52_59_66_73_74)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (CHLIST_46_52_59_66_73_74, 6)
        ARFCN_46,
```

```
        ARFCN_52,
        ARFCN_59,
        ARFCN_66,
        ARFCN_73,
        ARFCN_74
ENDARRAY

/*
```

0x04	# channels
0x01,0x00	1st hopping channel
0x17,0x00	2nd hopping channel
0x45,0x00	3rd hopping channel
0x73,0x00	4th hopping channel
0x00,...	rest of list

```
*/
BEGIN_PSTRUCT ("frequency_list", FREQ_LIST)
        SET_COMP ("rf_chan_cnt", 0x04)
        SET_COMP ("rf_chan_no", FREQ_LIST_NO)
ENDSTRUCT

BEGIN_PSTRUCT ("rf_chan_no", FREQ_LIST_NO)
        SET_COMP ("radio_freq", CHLIST_14_23_69_115)
ENDSTRUCT

BEGIN_SHORT_ARRAY_PART (CHLIST_14_23_69_115, 4)
        ARFCN_14,
        ARFCN_23,
        ARFCN_69,
        ARFCN_115
ENDARRAY


BEGIN_PSTRUCT ("handover_command", ASYNC_HO_CMD)
        SET_COMP  ("cell_description",    CELL_DESCRIPTION_2     )
        SET_COMP  ("channel_desc_1",      CHANNEL_DESC_2_TCH     )
        SET_COMP  ("channel_mode_1",      MODE_SPEECH_VER1       )
        SKIP_COMP ("starting_time"                               )
        SET_COMP  ("ho_acc",              HO_REF                 )
        SET_COMP  ("txpwr",               HO_POW                 )
        SKIP_COMP ("report_time_diff"                            )
        SET_COMP  ("frequency_list",      FREQ_LIST              )
        SKIP_COMP ("channel_desc_2"                              )
        SKIP_COMP ("channel_mode_2"                              )
        SKIP_COMP ("frequency_list_bef_sti"                      )
        SKIP_COMP ("channel_desc_1_bef_sti"                      )
        SKIP_COMP ("channel_desc_2_bef_sti"                      )
        SKIP_COMP ("cipher_mode"                                 )
        SKIP_COMP ("a5_algorithm"                                )
ENDSTRUCT
```

```
BEGIN_PSTRUCT ("handover_command", ASYNC_HO_CMD_2)
        SET_COMP ("cell_description", CELL_DESCRIPTION_2)
        SET_COMP ("channel_desc_1", CHANNEL_DESC_2_TCH)
        SET_COMP ("channel_mode_1", MODE_SPEECH_VER1)
        SET_COMP ("starting_time",      S_TIME_MPHC)
        SET_COMP ("ho_acc",     HO_REF)
        SET_COMP ("txpwr",      HO_POW)
        SKIP_COMP ("report_time_diff")
        SET_COMP ("frequency_list", FREQ_LIST)
        SKIP_COMP ("channel_desc_2")
        SKIP_COMP ("channel_mode_2")
        SET_COMP ("frequency_list_bef_sti", FREQ_LIST)
        SET_COMP ("channel_desc_1_bef_sti", CHANNEL_DESC_3_TCH)
        SKIP_COMP ("channel_desc_2_bef_sti")
        SKIP_COMP ("cipher_mode")
        SKIP_COMP ("a5_algorithm")
ENDSTRUCT


BEGIN_PSTRUCT ("handover_command", ASYNC_HO_CMD_3)
        SET_COMP ("cell_description", CELL_DESCRIPTION_3)
        SET_COMP ("channel_desc_1", CHANNEL_DESC_2_TCH)
        SET_COMP ("channel_mode_1", MODE_SPEECH_VER1)
        SET_COMP ("starting_time",S_TIME_MPHC)
        SET_COMP ("ho_acc",     HO_REF)
        SET_COMP ("txpwr", HO_POW)
        SKIP_COMP ("report_time_diff")
        SET_COMP ("frequency_list", FREQ_LIST)
        SKIP_COMP ("channel_desc_2")
        SKIP_COMP ("channel_mode_2")
        SET_COMP ("frequency_list_bef_sti", FREQ_LIST)
        SET_COMP ("channel_desc_1_bef_sti", CHANNEL_DESC_3_TCH)
        SKIP_COMP ("channel_desc_2_bef_sti")
        SKIP_COMP ("cipher_mode")
        SKIP_COMP ("a5_algorithm")
ENDSTRUCT


BEGIN_PSTRUCT ("classmark", CLASS_DCS_1800)
        SET_COMP ("pclass", CLASS_1)
        SET_COMP ("pclass2", CLASS_1)
ENDSTRUCT
```

4 TEST CASES

4.1 Configuration

4.1.1 ALR000: Filter and Routings (GSM 900)

Description: The ALR is configured.
Preamble: None

```
     RR/DL                              ALR                              PL
      |                                  |                                |
COMMAND (TAP RESET)
COMMAND (MMI RESET)
COMMAND (CC RESET)
COMMAND (SS RESET)
COMMAND (SMS RESET)
COMMAND (MM RESET)
COMMAND (RR RESET)
COMMAND (DL RESET)
COMMAND (SIM RESET)
COMMAND (PL RESET)
      |                                  |                                |
COMMAND (TAP REDIRECT CLEAR)
COMMAND (MMI REDIRECT CLEAR)
COMMAND (CC REDIRECT CLEAR)
COMMAND (SS REDIRECT CLEAR)
COMMAND (SMS REDIRECT CLEAR)
COMMAND (MM REDIRECT CLEAR)
COMMAND (RR REDIRECT CLEAR)
COMMAND (DL REDIRECT CLEAR)
COMMAND (SIM REDIRECT CLEAR)
COMMAND (PL REDIRECT CLEAR)
      |                                  |                                |
COMMAND (MMI REDIRECT MM NULL)
COMMAND (MMI REDIRECT CC NULL)
COMMAND (MMI REDIRECT SS NULL)
COMMAND (MMI REDIRECT SMS NULL)
COMMAND (MMI REDIRECT PL NULL)
      |                                  |                                |
COMMAND (CC REDIRECT MMI NULL)
COMMAND (CC REDIRECT MM NULL)
      |                                  |                                |
COMMAND (SS REDIRECT MMI NULL)
COMMAND (SS REDIRECT MM NULL)
      |                                  |                                |
COMMAND (SMS REDIRECT MMI NULL)
COMMAND (SMS REDIRECT MM NULL)
      |                                  |                                |
COMMAND (MM REDIRECT MMI NULL)
COMMAND (MM REDIRECT CC NULL)
COMMAND (MM REDIRECT SS NULL)
COMMAND (MM REDIRECT SMS NULL)
COMMAND (MM REDIRECT SIM NULL)
COMMAND (MM REDIRECT RR NULL)
COMMAND (MM REDIRECT DL NULL)
      |                                  |                                |
COMMAND (RR REDIRECT PL NULL)
COMMAND (RR REDIRECT DL NULL)
COMMAND (RR REDIRECT MM NULL)
```

```
      |                                   |                                   |
COMMAND (DL REDIRECT RR NULL)
COMMAND (DL REDIRECT MM NULL)
COMMAND (DL REDIRECT PL NULL)
      |                                   |                                   |
COMMAND (PL REDIRECT RR TAP)
COMMAND (PL REDIRECT DL TAP)
COMMAND (PL REDIRECT MMI TAP)
COMMAND (PL REDIRECT L1 TAP)
      |                                   |                                   |
COMMAND (SIM REDIRECT MM NULL)
      |                                   |                                   |
COMMAND (TAP REDIRECT TAP PL)
      |                                   |                                   |
```

Parametrization

Primitive	Parameter	Value

History: 22.09.99 MPA Initial

4.1.2 ALR200: Filter and Routings (DCS 1800)

Description: The ALR is configured for DCS 1800.
Preamble: None

```
     RR/DL                              ALR                                  PL
      |                                   |                                   |
COMMAND (TAP RESET)
COMMAND (MMI RESET)
COMMAND (CC RESET)
COMMAND (SS RESET)
COMMAND (SMS RESET)
COMMAND (MM RESET)
COMMAND (RR RESET)
COMMAND (DL RESET)
COMMAND (SIM RESET)
COMMAND (PL RESET)
      |                                   |                                   |
COMMAND (TAP REDIRECT CLEAR)
COMMAND (MMI REDIRECT CLEAR)
COMMAND (CC REDIRECT CLEAR)
COMMAND (SS REDIRECT CLEAR)
COMMAND (SMS REDIRECT CLEAR)
COMMAND (MM REDIRECT CLEAR)
COMMAND (RR REDIRECT CLEAR)
COMMAND (DL REDIRECT CLEAR)
COMMAND (SIM REDIRECT CLEAR)
COMMAND (PL REDIRECT CLEAR)
      |                                   |                                   |
COMMAND (MMI REDIRECT MM NULL)
COMMAND (MMI REDIRECT CC NULL)
COMMAND (MMI REDIRECT SS NULL)
COMMAND (MMI REDIRECT SMS NULL)
COMMAND (MMI REDIRECT PL NULL)
      |                                   |                                   |
COMMAND (CC REDIRECT MMI NULL)
COMMAND (CC REDIRECT MM NULL)
      |                                   |                                   |
COMMAND (SS REDIRECT MMI NULL)
COMMAND (SS REDIRECT MM NULL)
```

```
      |                                   |                                   |
COMMAND (SMS REDIRECT MMI NULL)
COMMAND (SMS REDIRECT MM NULL)
      |                                   |                                   |
COMMAND (MM REDIRECT MMI NULL)
COMMAND (MM REDIRECT CC NULL)
COMMAND (MM REDIRECT SS NULL)
COMMAND (MM REDIRECT SMS NULL)
COMMAND (MM REDIRECT SIM NULL)
COMMAND (MM REDIRECT RR NULL)
COMMAND (MM REDIRECT DL NULL)
      |                                   |                                   |
COMMAND (RR REDIRECT PL NULL)
COMMAND (RR REDIRECT DL NULL)
COMMAND (RR REDIRECT MM NULL)
      |                                   |                                   |
COMMAND (DL REDIRECT RR NULL)
COMMAND (DL REDIRECT MM NULL)
COMMAND (DL REDIRECT PL NULL)
      |                                   |                                   |
COMMAND (PL REDIRECT RR TAP)
COMMAND (PL REDIRECT DL TAP)
COMMAND (PL REDIRECT MMI TAP)
COMMAND (PL REDIRECT L1 TAP)
      |                                   |                                   |
COMMAND (SIM REDIRECT MM NULL)
      |                                   |                                   |
COMMAND (TAP REDIRECT TAP PL)
      |                                   |                                   |
COMMAND (PL CONFIG STD=4)
      |                                   |                                   |
```

Parametrization

Primitive	Parameter	Value

History: 22.09.99 MPA Initial

4.1.3 ALR400: Filter and Routings (PCS 1900)

Description: The ALR is configured for PCS 1900.
Preamble: None

```
     RR/DL                              ALR                                 PL
      |                                   |                                   |
COMMAND (TAP RESET)
COMMAND (MMI RESET)
COMMAND (CC RESET)
COMMAND (SS RESET)
COMMAND (SMS RESET)
COMMAND (MM RESET)
COMMAND (RR RESET)
COMMAND (DL RESET)
COMMAND (SIM RESET)
COMMAND (PL RESET)
      |                                   |                                   |
COMMAND (TAP REDIRECT CLEAR)
COMMAND (MMI REDIRECT CLEAR)
COMMAND (CC REDIRECT CLEAR)
COMMAND (SS REDIRECT CLEAR)
COMMAND (SMS REDIRECT CLEAR)
COMMAND (MM REDIRECT CLEAR)
```

```
COMMAND (RR REDIRECT CLEAR)
COMMAND (DL REDIRECT CLEAR)
COMMAND (SIM REDIRECT CLEAR)
COMMAND (PL REDIRECT CLEAR)
      |                                 |                                 |
COMMAND (MMI REDIRECT MM NULL)
COMMAND (MMI REDIRECT CC NULL)
COMMAND (MMI REDIRECT SS NULL)
COMMAND (MMI REDIRECT SMS NULL)
COMMAND (MMI REDIRECT PL NULL)
      |                                 |                                 |
COMMAND (CC REDIRECT MMI NULL)
COMMAND (CC REDIRECT MM NULL)
      |                                 |                                 |
COMMAND (SS REDIRECT MMI NULL)
COMMAND (SS REDIRECT MM NULL)
      |                                 |                                 |
COMMAND (SMS REDIRECT MMI NULL)
COMMAND (SMS REDIRECT MM NULL)
      |                                 |                                 |
COMMAND (MM REDIRECT MMI NULL)
COMMAND (MM REDIRECT CC NULL)
COMMAND (MM REDIRECT SS NULL)
COMMAND (MM REDIRECT SMS NULL)
COMMAND (MM REDIRECT SIM NULL)
COMMAND (MM REDIRECT RR NULL)
COMMAND (MM REDIRECT DL NULL)
      |                                 |                                 |
COMMAND (RR REDIRECT PL NULL)
COMMAND (RR REDIRECT DL NULL)
COMMAND (RR REDIRECT MM NULL)
      |                                 |                                 |
COMMAND (DL REDIRECT RR NULL)
COMMAND (DL REDIRECT MM NULL)
COMMAND (DL REDIRECT PL NULL)
      |                                 |                                 |
COMMAND (PL REDIRECT RR TAP)
COMMAND (PL REDIRECT DL TAP)
COMMAND (PL REDIRECT MMI TAP)
COMMAND (PL REDIRECT L1 TAP)
      |                                 |                                 |
COMMAND (SIM REDIRECT MM NULL)
      |                                 |                                 |
COMMAND (TAP REDIRECT TAP PL)
      |                                 |                                 |
COMMAND (PL CONFIG STD=3)
      |                                 |                                 |
```

Parametrization

Primitive	Parameter	Value

History: 22.09.99 MPA Initial

4.1.4 ALR600: Filter and Routings (Dualband GSM 900 / DCS 1800)

Description: The ALR is configured for Dualband GSM 900 / DCS 1800.
Preamble: None

```
     RR/DL                           ALR                             PL
      |                               |                               |
COMMAND (TAP RESET)
```

```
COMMAND (MMI RESET)
COMMAND (CC RESET)
COMMAND (SS RESET)
COMMAND (SMS RESET)
COMMAND (MM RESET)
COMMAND (RR RESET)
COMMAND (DL RESET)
COMMAND (SIM RESET)
COMMAND (PL RESET)
      |                                 |                                 |
COMMAND (TAP REDIRECT CLEAR)
COMMAND (MMI REDIRECT CLEAR)
COMMAND (CC REDIRECT CLEAR)
COMMAND (SS REDIRECT CLEAR)
COMMAND (SMS REDIRECT CLEAR)
COMMAND (MM REDIRECT CLEAR)
COMMAND (RR REDIRECT CLEAR)
COMMAND (DL REDIRECT CLEAR)
COMMAND (SIM REDIRECT CLEAR)
COMMAND (PL REDIRECT CLEAR)
      |                                 |                                 |
COMMAND (MMI REDIRECT MM NULL)
COMMAND (MMI REDIRECT CC NULL)
COMMAND (MMI REDIRECT SS NULL)
COMMAND (MMI REDIRECT SMS NULL)
COMMAND (MMI REDIRECT PL NULL)
      |                                 |                                 |
COMMAND (CC REDIRECT MMI NULL)
COMMAND (CC REDIRECT MM NULL)
      |                                 |                                 |
COMMAND (SS REDIRECT MMI NULL)
COMMAND (SS REDIRECT MM NULL)
      |                                 |                                 |
COMMAND (SMS REDIRECT MMI NULL)
COMMAND (SMS REDIRECT MM NULL)
      |                                 |                                 |
COMMAND (MM REDIRECT MMI NULL)
COMMAND (MM REDIRECT CC NULL)
COMMAND (MM REDIRECT SS NULL)
COMMAND (MM REDIRECT SMS NULL)
COMMAND (MM REDIRECT SIM NULL)
COMMAND (MM REDIRECT RR NULL)
COMMAND (MM REDIRECT DL NULL)
      |                                 |                                 |
COMMAND (RR REDIRECT PL NULL)
COMMAND (RR REDIRECT DL NULL)
COMMAND (RR REDIRECT MM NULL)
      |                                 |                                 |
COMMAND (DL REDIRECT RR NULL)
COMMAND (DL REDIRECT MM NULL)
COMMAND (DL REDIRECT PL NULL)
      |                                 |                                 |
COMMAND (PL REDIRECT RR TAP)
COMMAND (PL REDIRECT DL TAP)
COMMAND (PL REDIRECT MMI TAP)
COMMAND (PL REDIRECT L1 TAP)
      |                                 |                                 |
COMMAND (SIM REDIRECT MM NULL)
      |                                 |                                 |
COMMAND (TAP REDIRECT TAP PL)
```

```
      |                                   |                                   |
COMMAND (PL CONFIG STD=5)
      |                                   |                                   |
```

Parametrization

Primitive	Parameter	Value

History: 22.09.99 MPA Initial

4.1.5 ALR849: Filter and Routings (Dualband GSM 900 / E-GSM / DCS 1800)

Description: The ALR is configured for Dualband GSM 900 / E-GSM / DCS 1800.
Preamble: None

```
     RR/DL                              ALR                                PL
      |                                   |                                   |
COMMAND (TAP RESET)
COMMAND (MMI RESET)
COMMAND (CC RESET)
COMMAND (SS RESET)
COMMAND (SMS RESET)
COMMAND (MM RESET)
COMMAND (RR RESET)
COMMAND (DL RESET)
COMMAND (SIM RESET)
COMMAND (PL RESET)
      |                                   |                                   |
COMMAND (TAP REDIRECT CLEAR)
COMMAND (MMI REDIRECT CLEAR)
COMMAND (CC REDIRECT CLEAR)
COMMAND (SS REDIRECT CLEAR)
COMMAND (SMS REDIRECT CLEAR)
COMMAND (MM REDIRECT CLEAR)
COMMAND (RR REDIRECT CLEAR)
COMMAND (DL REDIRECT CLEAR)
COMMAND (SIM REDIRECT CLEAR)
COMMAND (PL REDIRECT CLEAR)
      |                                   |                                   |
COMMAND (MMI REDIRECT MM NULL)
COMMAND (MMI REDIRECT CC NULL)
COMMAND (MMI REDIRECT SS NULL)
COMMAND (MMI REDIRECT SMS NULL)
COMMAND (MMI REDIRECT PL NULL)
      |                                   |                                   |
COMMAND (CC REDIRECT MMI NULL)
COMMAND (CC REDIRECT MM NULL)
      |                                   |                                   |
COMMAND (SS REDIRECT MMI NULL)
COMMAND (SS REDIRECT MM NULL)
      |                                   |                                   |
COMMAND (SMS REDIRECT MMI NULL)
COMMAND (SMS REDIRECT MM NULL)
      |                                   |                                   |
COMMAND (MM REDIRECT MMI NULL)
COMMAND (MM REDIRECT CC NULL)
COMMAND (MM REDIRECT SS NULL)
COMMAND (MM REDIRECT SMS NULL)
COMMAND (MM REDIRECT SIM NULL)
COMMAND (MM REDIRECT RR NULL)
COMMAND (MM REDIRECT DL NULL)
      |                                   |                                   |
```

```
COMMAND (RR REDIRECT PL NULL)
COMMAND (RR REDIRECT DL NULL)
COMMAND (RR REDIRECT MM NULL)
      |                                   |                                   |
COMMAND (DL REDIRECT RR NULL)
COMMAND (DL REDIRECT MM NULL)
COMMAND (DL REDIRECT PL NULL)
      |                                   |                                   |
COMMAND (PL REDIRECT RR TAP)
COMMAND (PL REDIRECT DL TAP)
COMMAND (PL REDIRECT MMI TAP)
COMMAND (PL REDIRECT L1 TAP)
      |                                   |                                   |
COMMAND (SIM REDIRECT MM NULL)
      |                                   |                                   |
COMMAND (TAP REDIRECT TAP PL)
      |                                   |                                   |
COMMAND (PL CONFIG STD=6)
      |                                   |                                   |
```

Parametrization

Primitive	Parameter	Value

History: 22.09.99 MPA Initial

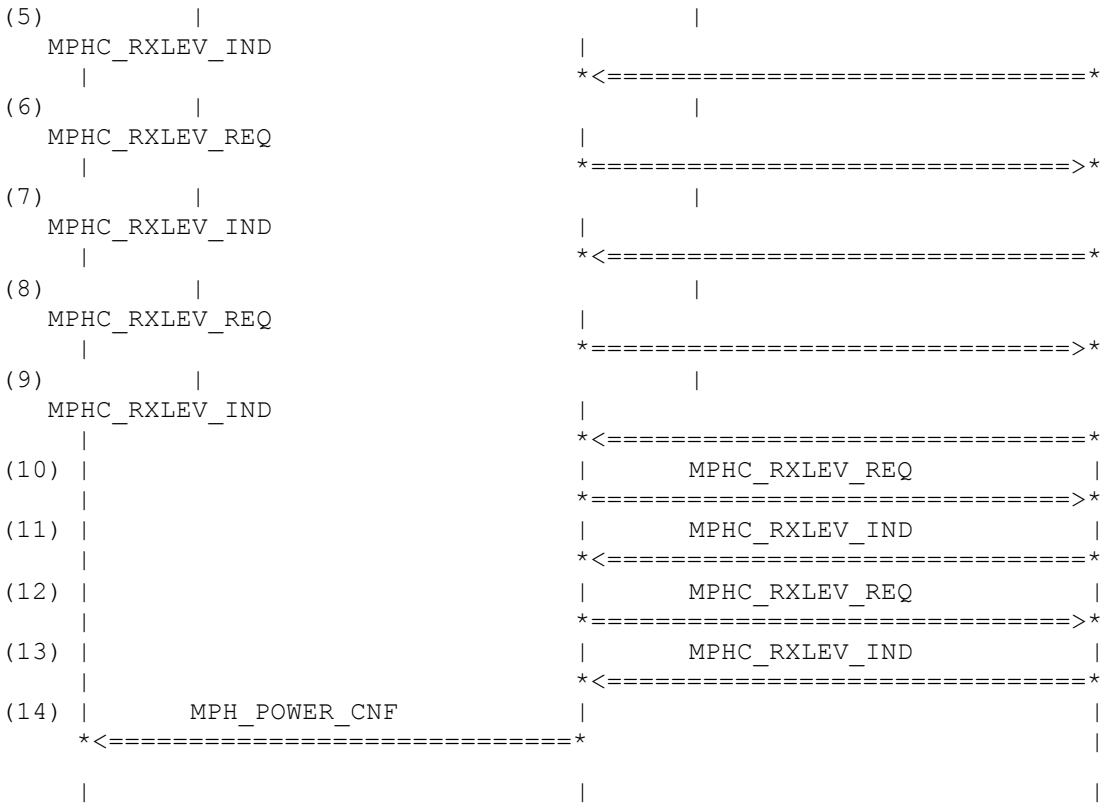
4.2 Cell Selection (GSM 900)

4.2.1 ALR001: Initiation by RR, 4 channels available

Description: RR starts a cell selection with power measurements with interruption. Four channels in the order 23, 14, 124, 1 have acceptable fieldstrength values.

Preamble: ALR000

```
     RR/DL                             ALR                               PL
      |                                |                                 |
(1)          |                        MPH_POWER_REQ                     |
   |
      *============================>*                                    |
(2)          |                              |
   MPHC_INIT_L1_REQ                  |
      |                                *==============================>*
(3)          |                              |
   MPHC_INIT_L1_CON                  |
      |                                *<==============================*
(4)          |                              |
   MPHC_RXLEV_REQ                    |
      |                                *==============================>*
```



Parametrization

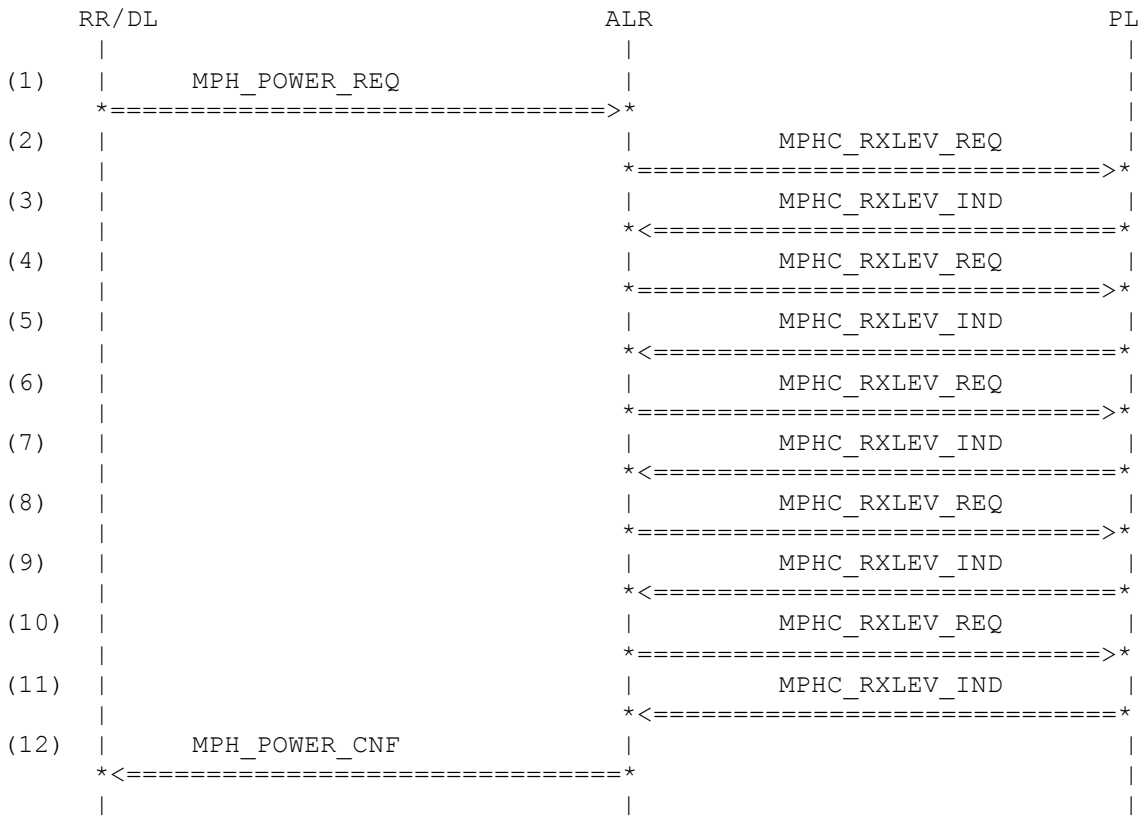
	Primitive	Parameter	Value
(1)	MPH_POWER_REQ		
		pch_interrupt	PCH_INTERRUPT
		freq_bands	BAND_GSM_900
(2)	MPHC_INIT_L1_REQ		
		radio_band_config	BAND_GSM_900
(3)	MPHC_INIT_L1_CON		
		param	NOT_USED
(4)	MPHC_RXLEV_REQ		
		shared_ptr	NOT_USED
(5)	MPHC_RXLEV_IND		
		shared_ptr	RXLEV_IDX_1
(6)	MPHC_RXLEV_REQ		
		shared_ptr	NOT_USED
(7)	MPHC_RXLEV_IND		
		shared_ptr	RXLEV_IDX_1
(8)	MPHC_RXLEV_REQ		
		shared_ptr	NOT_USED
(9)	MPHC_RXLEV_IND		
		shared_ptr	RXLEV_IDX_1
(10)	MPHC_RXLEV_REQ		
		shared_ptr	NOT_USED
(11)	MPHC_RXLEV_IND		
		shared_ptr	RXLEV_IDX_1

(12)	MPHC_RXLEV_REQ		
		shared_ptr	NOT_USED
(13)	MPHC_RXLEV_IND		
		shared_ptr	RXLEV_IDX_1
(14)	MPH_POWER_CNF		
		num_of_chan	CHANNELS_4
		arfcn	NOT_USED
		rx_lev	NOT_USED

History: 22.09.99 MPA Initial

4.2.2 ALR002: Initiation by RR, no channels available

Description: RR starts a cell selection. No suitable channel is available.
Preamble: ALR000



Parametrization

Primitive	Parameter	Value
(1) MPH_POWER_REQ		
	pch_interrupt	PCH_INTERRUPT
	freq_bands	BAND_GSM_1800
(2) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(3) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_2
(4) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED

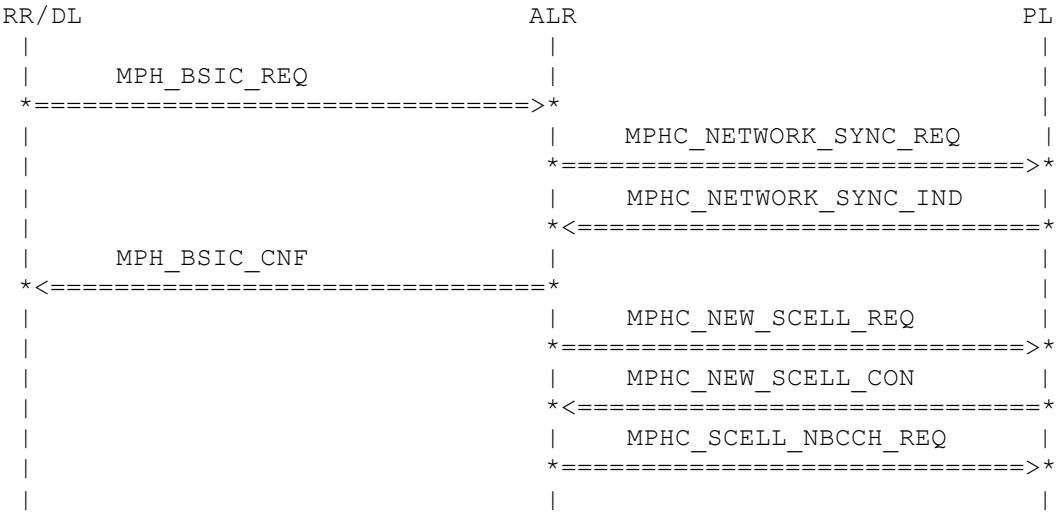
(5) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_2
(6) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(7) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_2
(8) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(9) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_2
(10) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(11) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_2
(12) MPH_POWER_CNF		
	num_of_chan	CHANNELS_0
	arfcn	NOT_USED
	rx_lev	NOT_USED

History: 22.09.99 MPA Initial

4.2.3 ALR003: Find BCCH carrier, first channel

Description: The carrier with the highest fieldstrength (channel 23) is selected for synchronizing to frequency correction burst and synchron burst.

Preamble: ALR001



Parametrization

Primitive	Parameter	Value
(1) MPH_BSIC_REQ		
	arfcn	ARFCN_23
(2) MPHC_NETWORK_SYNC_REQ		
	radio_freq	ARFCN_23
	fn_offset	NOT_USED

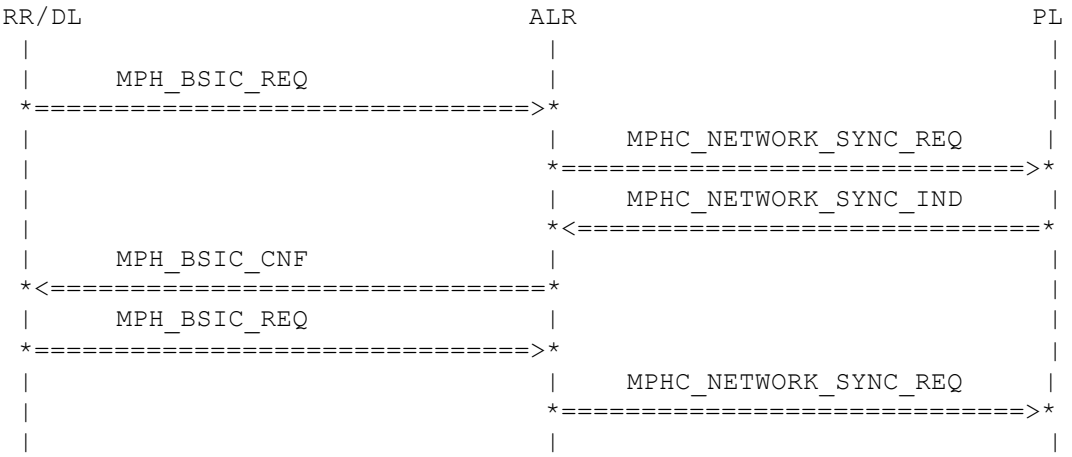
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
	search_mode	SM_WIDE_MODE
(3) MPHC_NETWORK_SYNC_IND		
	radio_freq	ARFCN_23
	sb_flag	SB_FOUND
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	bsic	BSIC_1
(4) MPH_BSIC_CNF		
	arfcn	ARFCN_X817
	bsic	BSIC_1
	cs	CS_NO_ERROR
(5) MPHC_NEW_SCELL_REQ		
	radio_freq	ARFCN_23
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	tsc	BSIC_1
(6) MPHC_NEW_SCELL_CON		
	param	NOT_USED
(7) MPHC_SCELL_NBCCH_REQ		
	schedule_array_size	SCHED_SIZE_1
	schedule_array	FULL_READ

History:	22.09.99	MPA	Initial

4.2.4 ALR004: Find BCCH carrier, first channel failed, then second channel

Description: The carrier with the highest fieldstrength (channel 23) is selected for synchronizing to frequency correction burst and synchron burst. The attempt failed. A second request is started for the next strongest channel (channel 14).

Preamble: ALR001



Parametrization

Primitive	Parameter	Value
(1) MPH_BSIC_REQ		
	arfcn	ARFCN_23

(2) MPHC_NETWORK_SYNC_REQ

radio_freq	ARFCN_23
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_INVALID_TIMING_INFO
search_mode	SM_WIDE_MODE

(3) MPHC_NETWORK_SYNC_IND

radio_freq	ARFCN_23
sb_flag	NO_SB_FOUND
fn_offset	FN_OFFSET_0
time_alignment	TIME_ALIGNMT_0
bsic	BSIC_1

(4) MPH_BSIC_CNF

arfcn	ARFCN_23
bsic	BSIC_1
cs	CS_NO_BCCH_AVAIL

(5) MPH_BSIC_REQ

arfcn	ARFCN_14

(6) MPHC_NETWORK_SYNC_REQ

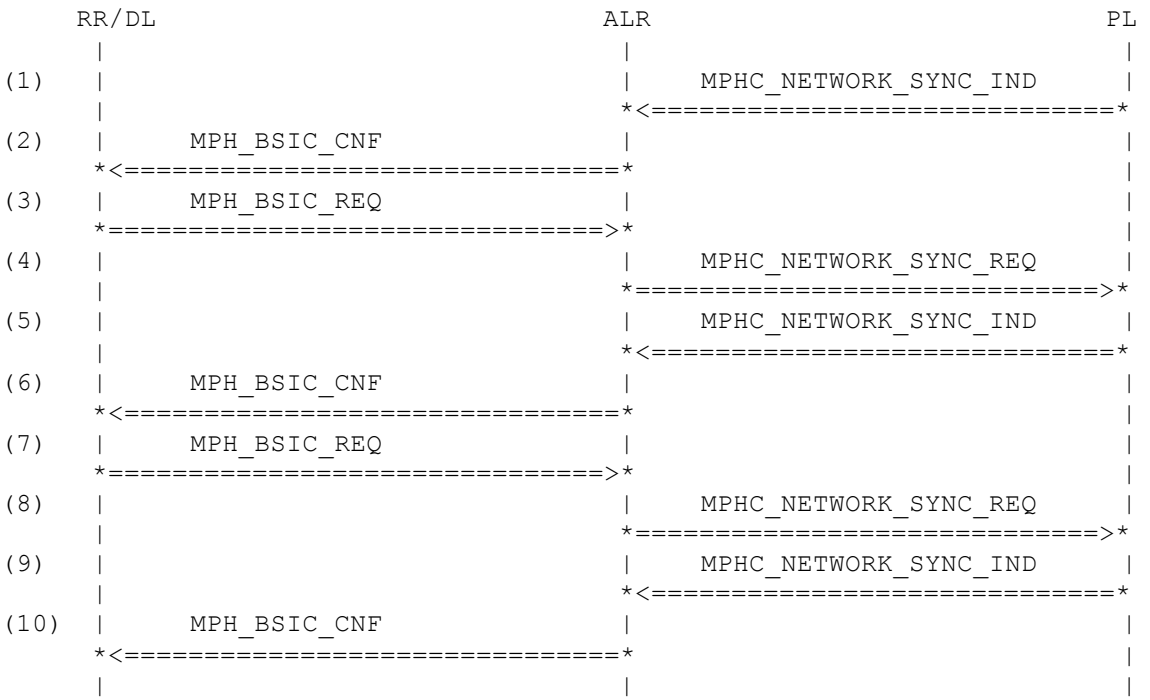
radio_freq	ARFCN_14
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_INVALID_TIMING_INFO
search_mode	SM_WIDE_MODE

History: 22.09.99 MPA Initial

4.2.5 ALR005: Find BCCH carrier, all channels failed, then error indication

Description: All synchronization attempts to the available channels are failed. RR is informed by an error indication with the cause no BCCH available.

Preamble: ALR004



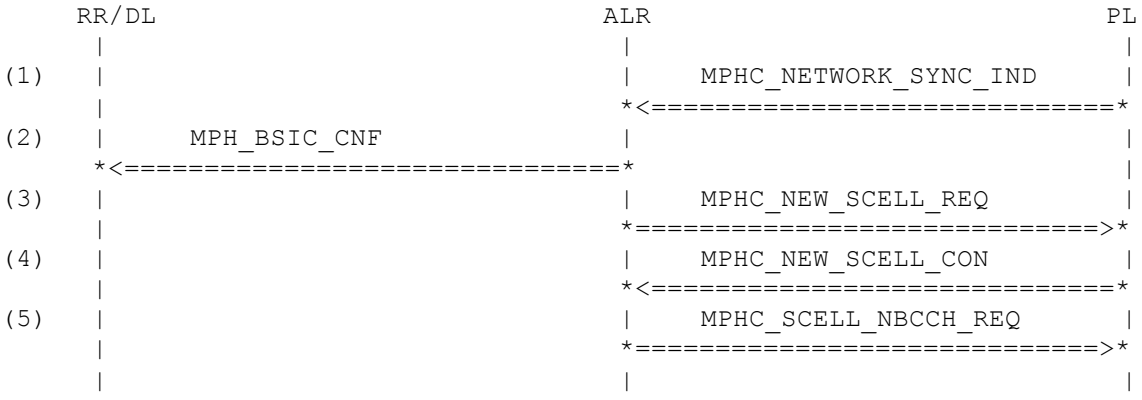
Parametrization

Primitive	Parameter	Value
(1) MPHC_NETWORK_SYNC_IND		
	radio_freq	ARFCN_14
	sb_flag	NO_SB_FOUND
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	bsic	BSIC_0
(2) MPH_BSIC_CNF		
	arfcn	ARFCN_14
	bsic	NOT_USED
	cs	CS_NO_BCCH_AVAIL
(3) MPH_BSIC_REQ		
	arfcn	ARFCN_124
(4) MPHC_NETWORK_SYNC_REQ		
	radio_freq	ARFCN_124
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
	search_mode	SM_WIDE_MODE
(5) MPHC_NETWORK_SYNC_IND		
	radio_freq	ARFCN_124
	sb_flag	NO_SB_FOUND
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	bsic	BSIC_0
(6) MPH_BSIC_CNF		
	arfcn	ARFCN_124
	bsic	NOT_USED
	cs	CS_NO_BCCH_AVAIL
(7) MPH_BSIC_REQ		
	arfcn	ARFCN_1
(8) MPHC_NETWORK_SYNC_REQ		
	radio_freq	ARFCN_1
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
	search_mode	SM_WIDE_MODE
(9) MPHC_NETWORK_SYNC_IND		
	radio_freq	ARFCN_1
	sb_flag	NO_SB_FOUND
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	bsic	BSIC_0
(10) MPH_BSIC_CNF		
	arfcn	ARFCN_1
	bsic	NOT_USED
	cs	CS_NO_BCCH_AVAIL

History: 22.09.99 MPA Initial

4.2.6 ALR006: Find BCCH carrier, second channel

Description: The next best channel (channel 14) is selected for synchronizing to frequency correction burst and synchron burst.
Preamble: ALR004



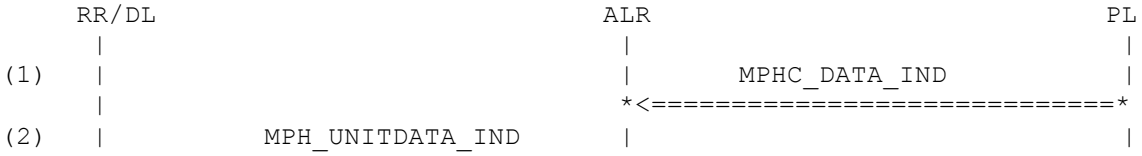
Parametrization

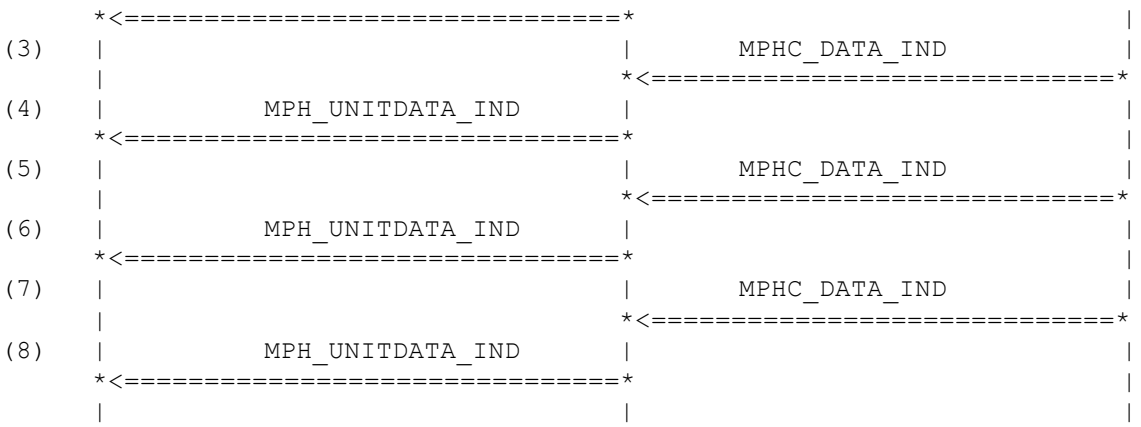
Primitive	Parameter	Value
(1) MPHC_NETWORK_SYNC_IND		
	radio_freq	ARFCN_14
	sb_flag	SB_FOUND
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	bsic	BSIC_0
(2) MPH_BSIC_CNF		
	arfcn	ARFCN_14
	bsic	BSIC_0
	cs	CS_NO_ERROR
(3) MPHC_NEW_SCELL_REQ		
	radio_freq	ARFCN_14
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	tsc	BSIC_0
(4) MPHC_NEW_SCELL_CON		
	param	NOT_USED
(5) MPHC_SCELL_NBCCH_REQ		
	schedule_array_size	SCHED_SIZE_1
	schedule_array	FULL_READ

History: 23.09.99 MPA Initial

4.2.7 ALR007: Read BCCH data

Description: The BCCH data blocks are read for the channel 23.
Preamble: ALR003





Parametrization

Primitive	Parameter	Value
(1) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_1
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(2) MPH_UNITDATA_IND		
	arfcn	ARFCN_23
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_1
	ti	TI_0
	cell_chan_desc	CELL_CHAN_DESC_1
	rach_ctrl	RACH_CTRL_1
	}	
(3) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_2
	tc	TC_1
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(4) MPH_UNITDATA_IND		
	arfcn	ARFCN_23
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_2
	ti	TI_0
	neigh_cell_desc	NEIGH_CELL_DESC_1
	ncc_permit	NCC_PERMIT_1
	rach_ctrl	RACH_CTRL_1
	}	

(5) MPHC_DATA_IND

radio_freq	ARFCN_23
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
ccch_lev	NOT_USED
fn	FN_OFFSET_0

(6) MPH_UNITDATA_IND

arfcn	ARFCN_23
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(7) MPHC_DATA_IND

radio_freq	ARFCN_23
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_4
tc	TC_3
ccch_lev	NOT_USED
fn	FN_OFFSET_0

(8) MPH_UNITDATA_IND

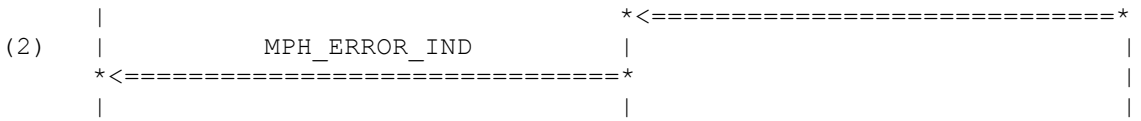
arfcn	ARFCN_23
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_4
ti	TI_0
loc_area_ident	LOC_AREA_IDENT_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

History:	23.09.99	MPA	Initial

4.2.8 ALR008: Read failed BCCH data

Description: A failed BCCH data block is read.
Preamble: ALR007

```
     RR/DL                          ALR                            PL
      |                              |                              |
(1)   |                              |       MPHC_DATA_IND          |
```



Parametrization

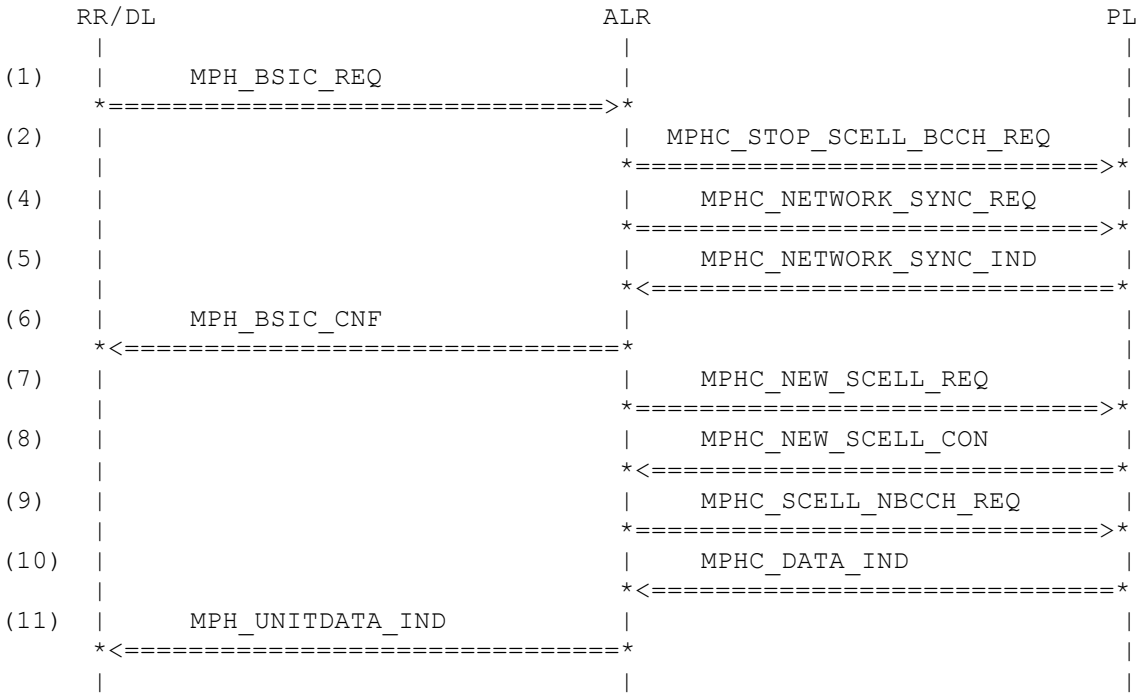
Primitive	Parameter	Value
(1) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	INVALID_BLOCK
	l2_frame	L2_NO_CONTENT
	tc	TC_3
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(2) MPH_ERROR_IND		
	cs	CS_BCCH_READ_ERROR
	arfcn	ARFCN_23

History: 23.09.99 MPA Initial

4.2.9 ALR009: RR rejects BCCH carrier, try third channel

Description: RR rejects the BCCH carrier. The next best channel (channel 124) is selected for synchronizing to frequency correction burst and synchron burst.

Preamble: ALR006



Parametrization

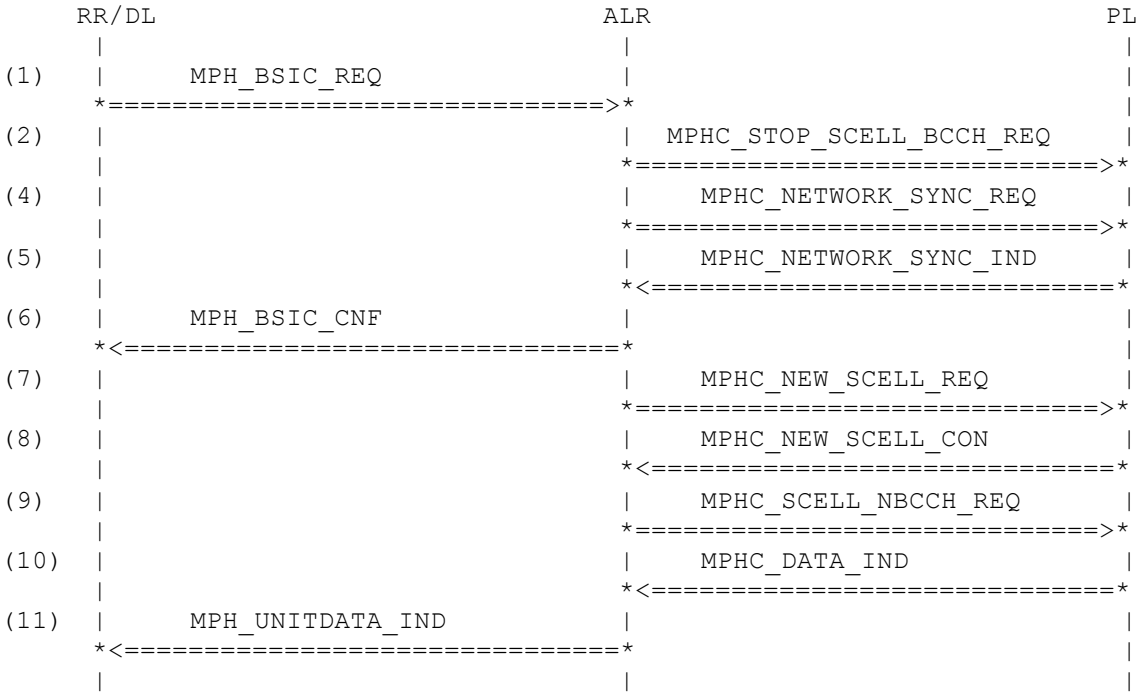
Primitive	Parameter	Value
(1) MPH_BSIC_REQ		
	arfcn	ARFCN_124
(2) MPHC_STOP_SCELL_BCCH_REQ		
	param	NOT_USED

(3) MPHC_NETWORK_SYNC_REQ		
	radio_freq	ARFCN_124
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
	search_mode	SM_WIDE_MODE
(4) MPHC_NETWORK_SYNC_IND		
	radio_freq	ARFCN_124
	sb_flag	SB_FOUND
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	bsic	BSIC_0
(5) MPH_BSIC_CNF		
	arfcn	ARFCN_124
	bsic	BSIC_0
	cs	CS_NO_ERROR
(6) MPHC_NEW_SCELL_REQ		
	radio_freq	ARFCN_124
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	tsc	BSIC_0
(7) MPHC_NEW_SCELL_CON		
	param	NOT_USED
(8) MPHC_SCELL_NBCCH_REQ		
	schedule_array_size	SCHED_SIZE_1
	schedule_array	FULL_READ
(9) MPHC_DATA_IND		
	radio_freq	ARFCN_124
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_1
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(9) MPH_UNITDATA_IND		
	arfcn	ARFCN_124
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_1
	ti	TI_0
	cell_chan_desc	CELL_CHAN_DESC_1
	rach_ctrl	RACH_CTRL_1
	}	
History:	23.09.9	MPA Initial

4.2.10 ALR010: RR rejects BCCH carrier, try fourth channel

Description: RR rejects the BCCH carrier. The next best channel (channel 1) is selected for synchronising to frequency correction burst and synchron burst.

Preamble: ALR009



Parametrization

Primitive	Parameter	Value
(1) MPH_BSIC_REQ		
	arfcn	ARFCN_1
(2) MPHC_STOP_SCELL_BCCH_REQ		
	param	NOT_USED
(3) MPHC_NETWORK_SYNC_REQ		
	radio_freq	ARFCN_1
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
	search_mode	SM_WIDE_MODE
(4) MPHC_NETWORK_SYNC_IND		
	radio_freq	ARFCN_1
	sb_flag	SB_FOUND
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	bsic	BSIC_0
(5) MPH_BSIC_CNF		
	arfcn	ARFCN_1
	bsic	BSIC_0
	cs	CS_NO_ERROR
(6) MPHC_NEW_SCELL_REQ		
	radio_freq	ARFCN_1
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	tsc	BSIC_0
(7) MPHC_NEW_SCELL_CON		
	param	NOT_USED

(8) MPHC_SCELL_NBCCH_REQ

schedule_array_size	SCHED_SIZE_1
schedule_array	NOT_USED

(9) MPHC_DATA_IND

radio_freq	ARFCN_1
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_1
tc	TC_0
ccch_lev	NOT_USED
fn	FN_OFFSET_0

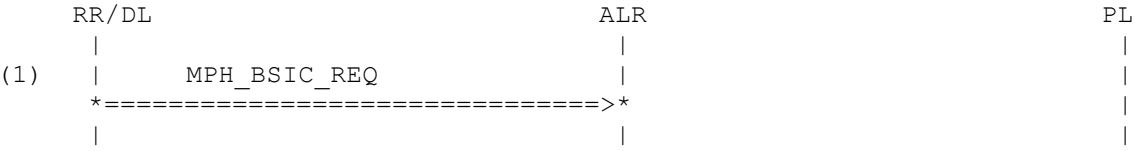
(10) MPH_UNITDATA_IND

arfcn	ARFCN_1
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_1
ti	TI_0
cell_chan_desc	CELL_CHAN_DESC_1
rach_ctrl	RACH_CTRL_1
}	

History: 23.09.99 MPA Initial

4.2.11 ALR011: RR rejects BCCH carrier, no further channel available

Description: RR rejects the BCCH carrier. No further channel is available.
Preamble: ALR010



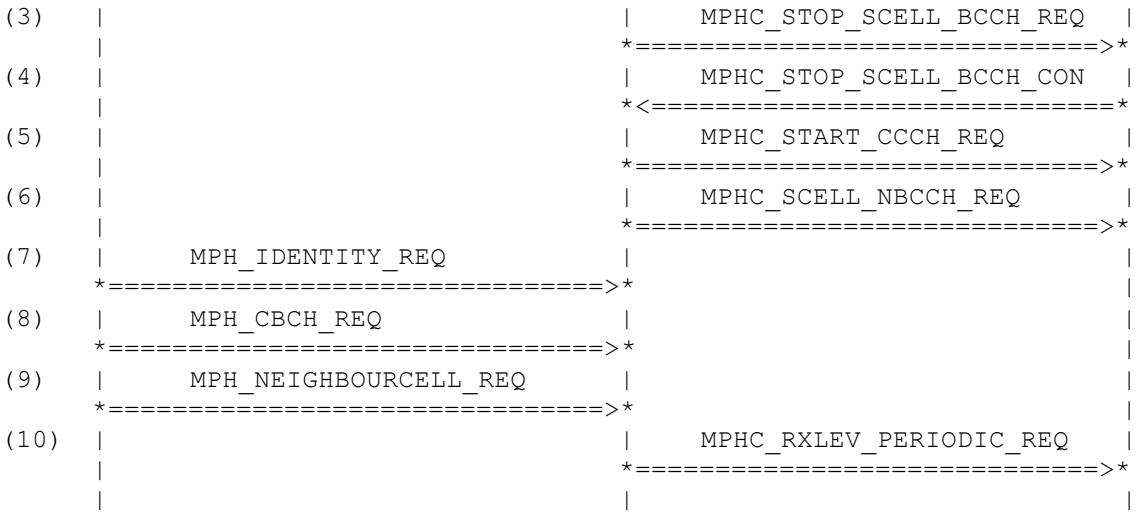
Parametrization

Primitive	Parameter	Value
(1) MPH_BSIC_REQ		
	arfcn	NOT_PRESENT_16BIT

History: 23.09.99 MPA Initial

4.2.12 ALR012: RR select second channel

Description: RR selects the channel 14 after reading the BCCH carrier.
Variant A: with neighbourcell list
Variant B: with empty neighbour cell list
Variant C: like A, but non-combined CCCH
Preamble: ALR006
Variants: <A> .. <C>



Parametrization

Primitive	Parameter	Value
(1) MPH_CLASSMARK_REQ		
	classmark	CLASS_GSM_900
(2) MPH_IDLE_REQ		
	mod	MODE_CELL_SELECTION
	arfcn	ARFCN_14
	ext_bcch	NOT_USED
<A>	comb_ccch	COMB_CCCH_COMB
<B>	comb_ccch	COMB_CCCH_COMB
<C>	comb_ccch	COMB_CCCH_NOT_COMB
	tn	TN_0
	dlt	DLT_10
	pg	PG_20
	bs_ag_blocks_res	BS_AG_BLKS_RES_3
	bs_pa_mfrms	BS_PA_MFRMS_6
	power	POWER_12
	ncc_permitted	NOT_PRESENT_8BIT
	reorg_only	NOT_USED
(3) MPHC_STOP_SCELL_BCCH_REQ		
	param	NOT_USED
(4) MPHC_STOP_SCELL_BCCH_CON		
	param	NOT_USED
(5) MPHC_START_CCCH_REQ		
	bs_pa_mfrms	BS_PA_MFRMS_8
	bs_ag_blks_res	BS_AG_BLKS_RES_3
<A>	bcch_combined	COMB_CCCH_COMB
<B>	bcch_combined	COMB_CCCH_COMB
<C>	bcch_combined	COMB_CCCH_NOT_COMB
	ccch_group	CCCH_GROUP_0
	page_group	PG_20
<A>	page_block_index	PBI_0
<B>	page_block_index	PBI_0
<C>	page_block_index	PBI_2
	page_mode	PGM_REORG

(6) MPHC_SCELL_NBCCH_REQ

	schedule_array_size	SCHED_SIZE_1
	schedule_array	NOT_USED

(7) MPH_IDENTITY_REQ

	mid	MS_ID_IMSI_TMSI

(8) MPH_CBCH_REQ

	cbch	NO_CBCH

(9) MPH_NEIGHBOURCELL_REQ

	multi_band	MULTI_BAND_0
<A>	arfcn	CHLIST_23_1_124_FFFF
<B>	arfcn	EMPTY_NCELL_LIST
<C>	arfcn	CHLIST_23_1_124_FFFF
	sync_only	NOT_USED

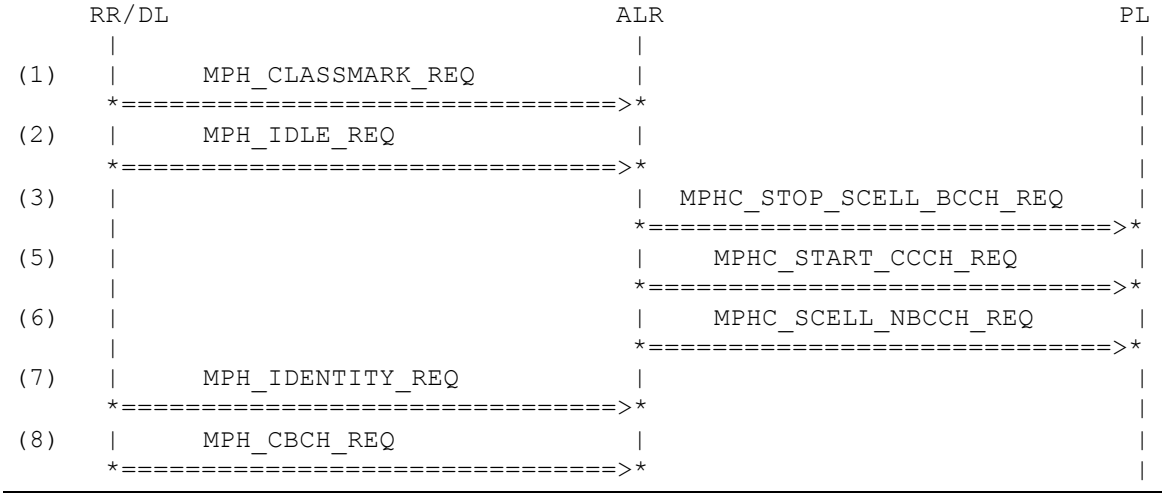
(10) MPHC_RXLEV_PERIODIC_REQ

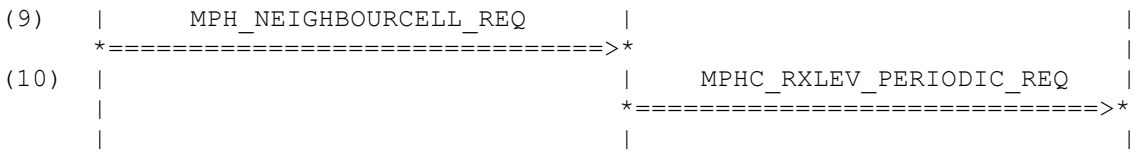
<A>	chan_list	CHLIST_14_23_1_124
<B>	chan_list	CHLIST_14
<C>	chan_list	CHLIST_14_23_1_124
<A>	num_of_chans	CHANNELS_4
<B>	num_of_chans	CHANNELS_1
<C>	num_of_chans	CHANNELS_4
	ba_id	BA_ID_1
	next_radio_freq_measured	CHAN_LIST_IDX_0

History:	23.09.99	MPA	Initial
	12.07.00	DG	MPH_CLASSMARK_REQ: class changed into classmark (Forum G23M / No 0057)
	19.07.01	MSB	MPHC_SCELL_NBCCH_REQ after MPHC_START_CCCH_REQ included. MPHC_STOP_SCELL_BCCH_CON included.
	07.02.02	LG	changed value for ba_id

4.2.13 ALR013: RR select first channel

Description: RR selects the channel 23 after reading the BCCH carrier.
Preamble: ALR007





Parametrization

Primitive	Parameter	Value
(1) MPH_CLASSMARK_REQ		
	classmark	CLASS_GSM_900
(2) MPH_IDLE_REQ		
	mod	MODE_CELL_SELECTION
	arfcn	ARFCN_23
	ext_bcch	NOT_USED
	comb_ccch	COMB_CCCH_COMB
	tn	TN_0
	dlt	DLT_10
	pg	PG_20
	bs_ag_blocks_res	BS_AG_BLKS_RES_3
	bs_pa_mfrms	BS_PA_MFRMS_6
	power	POWER_12
	ncc_permitted	NOT_PRESENT_8BIT
	reorg_only	NOT_USED
(3) MPHC_STOP_SCELL_BCCH_REQ		
	param	NOT_USED
(4) MPHC_START_CCCH_REQ		
	bs_pa_mfrms	BS_PA_MFRMS_8
	bs_ag_blks_res	BS_AG_BLKS_RES_3
	bcch_combined	COMB_CCCH_COMB
	ccch_group	CCCH_GROUP_0
	page_group	PG_20
	page_block_index	PBI_0
	page_mode	PGM_REORG
(5) MPHC_SCELL_NBCCH_REQ		
	schedule_array_size	SCHED_SIZE_1
	schedule_array	FULL_READ
(6) MPH_IDENTITY_REQ		
	mid	MS_ID_IMSI_TMSI
(7) MPH_CBCH_REQ		
	cbch	NO_CBCH
(8) MPH_NEIGHBOURCELL_REQ		
	multi_band	MULTI_BAND_0
	arfcn	CHLIST_1_14_124_FFFF
	sync_only	NOT_USED
(9) MPHC_RXLEV_PERIODIC_REQ		
	chan_list	CHLIST_23_1_14_124
	num_of_chans	CHANNELS_4
	ba_id	BA_ID_1
	next_radio_freq_measured	CHAN_LIST_IDX_0

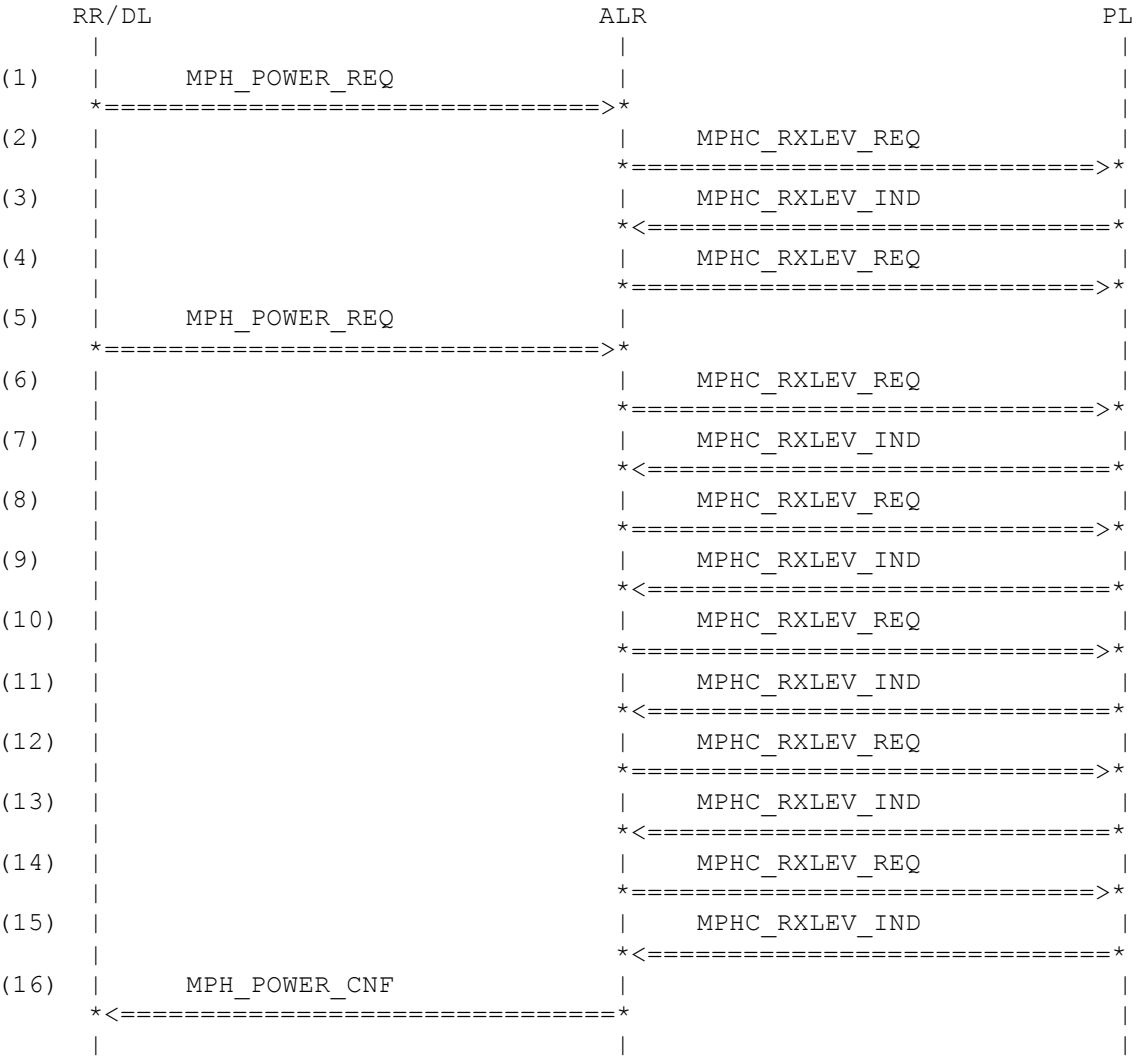
History: 23.09.99 MPA Initial

12.07.00	**DG**	**MPH_CLASSMARK_REQ: class changed into class-mark**
21.06.01	**MSB**	**(Forum G23M / No 0057) sequence and parameter changed for MPHC_SCELL_NBCCH_REQ: after pagemode set to REORG, full read is neces-sary**
19.07.01	MSB	CHLIST_23_1_14_124 changed
07.02.02	**LG**	**changed value for ba_id**

4.2.14 ALR015: Re-Initiation of Cell Selection during measurements

Description: RR has started a cell selection. During power measurements a new activation of cell selection is started by RR. The power measurement is restarted.

Preamble: ALR000



Parametrization

Primitive	Parameter	Value

(1) MPH_POWER_REQ		
	pch_interrupt	PCH_INTERRUPT
	freq_bands	NOT_USED
(2) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(3) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_1
(4) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(5) MPH_POWER_REQ		
	pch_interrupt	PCH_INTERRUPT
	freq_bands	NOT_USED
(6) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(7) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_1
(8) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(9) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_1
(10) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(11) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_1
(12) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(13) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_1
(14) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(15) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_1
(16) MPH_POWER_CNF		
	num_of_chan	CHANNELS_4
	arfcn	ARFCN_23_14_124_1
	rx_lev	RXLEV_23_14_124_1

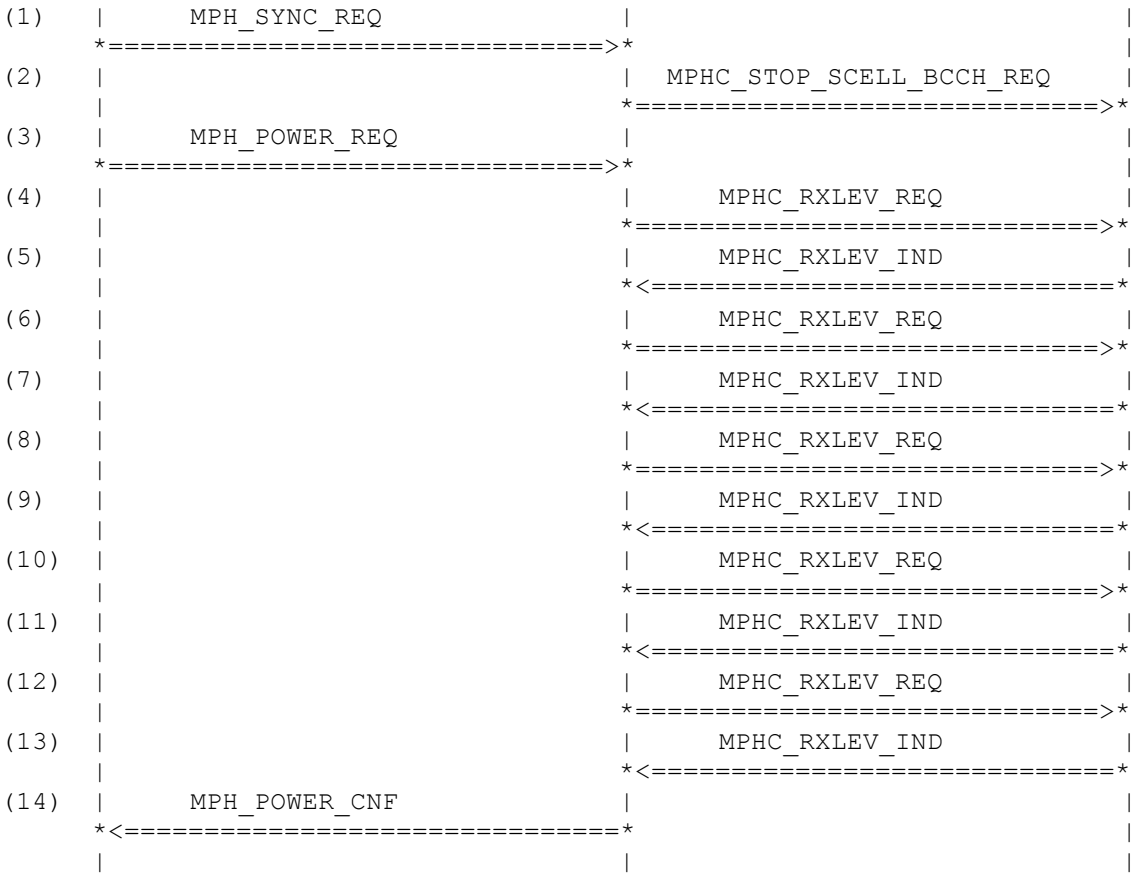
History:	23.09.99	MPA	Initial

4.2.15 ALR017: Re-Initiation of Cell Selection during BCCH reading

Description: During BCCH reading RR restarts a cell selection. This leads to a new full power measurement cycle.

Preamble: ALR007

```
RR/DL                    ALR                    PL
  |                       |                      |
```



Parametrization

Primitive	Parameter	Value
(1) MPH_SYNC_REQ		
	cs	CS_STOP_BCCH_READING
(2) MPHC_STOP_SCELL_BCCH_REQ		
	param	NOT_USED
(3) MPH_POWER_REQ		
	pch_interrupt	PCH_INTERRUPT
	freq_bands	NOT_USED
(4) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(5) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_1
(6) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(7) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_1
(8) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(9) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_1
(10) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED

(11) MPHC_RXLEV_IND

shared_ptr	RXLEV_IDX_1

(12) MPHC_RXLEV_REQ

shared_ptr	NOT_USED

(13) MPHC_RXLEV_IND

shared_ptr	RXLEV_IDX_1

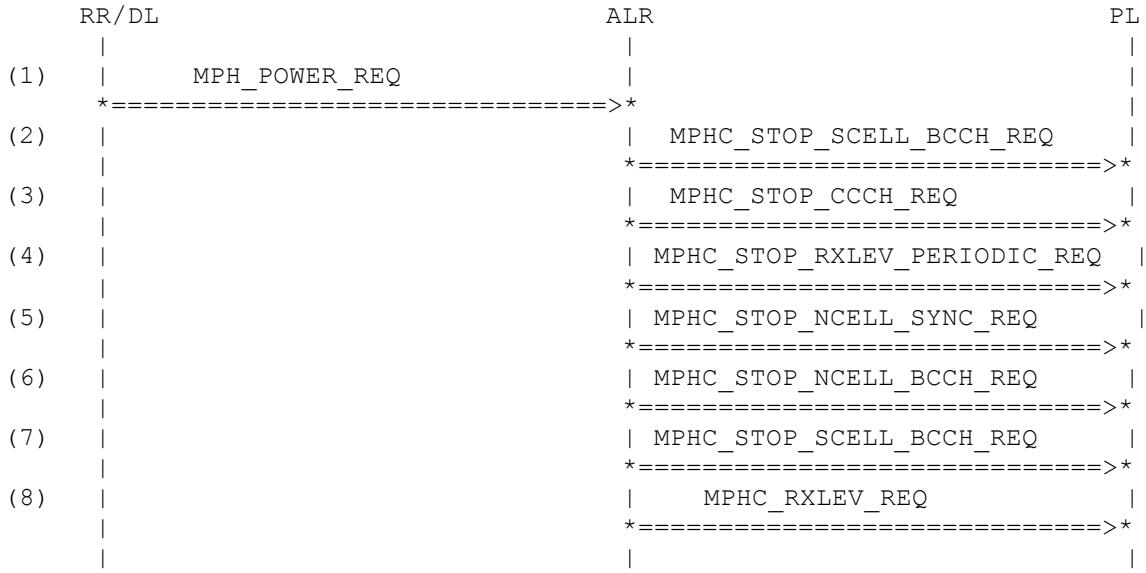
(14) MPH_POWER_CNF

num_of_chan	CHANNELS_4
arfcn	ARFCN_23_14_124_1
rx_lev	RXLEV_23_14_124_1

History: 23.09.99 MPA Initial

4.2.16 ALR044: Stop Idle Mode by Normal Cell Selection

Description: The idle mode is stopped if a normal cell selection is initiated.
Preamble: ALR013



Parametrization

Primitive	Parameter	Value
(1) MPH_POWER_REQ		
	pch_interrupt	PCH_INTERRUPT
	freq_bands	NOT_USED
(2) MPHC_STOP_SCELL_BCCH_REQ		
	param	NOT_USED
(3) MPHC_STOP_CCCH_REQ		
	param	NOT_USED
(4) MPHC_STOP_RXLEV_PERIODIC_REQ		
	param	NOT_USED
(5) MPHC_STOP_NCELL_SYNC_REQ		
	radio_freq_array_size	STOP_SIZE_0
	radio_freq_array	NOT_USED

(6) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	STOP_SIZE_0
radio_freq_array	NOT_USED

(7) MPHC_STOP_SCELL_BCCH_REQ

param	NOT_USED

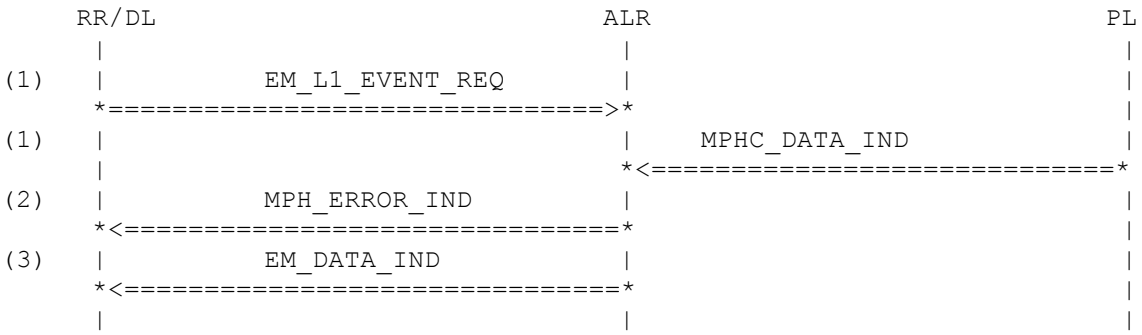
(8) MPHC_RXLEV_REQ

shared_ptr	NOT_USED

History: 23.09.99 MPA Initial

4.2.17 ALR018: ALR008 - Engineering mode

Description: A failed BCCH data block is read.
Preamble: ALR007



Parametrization

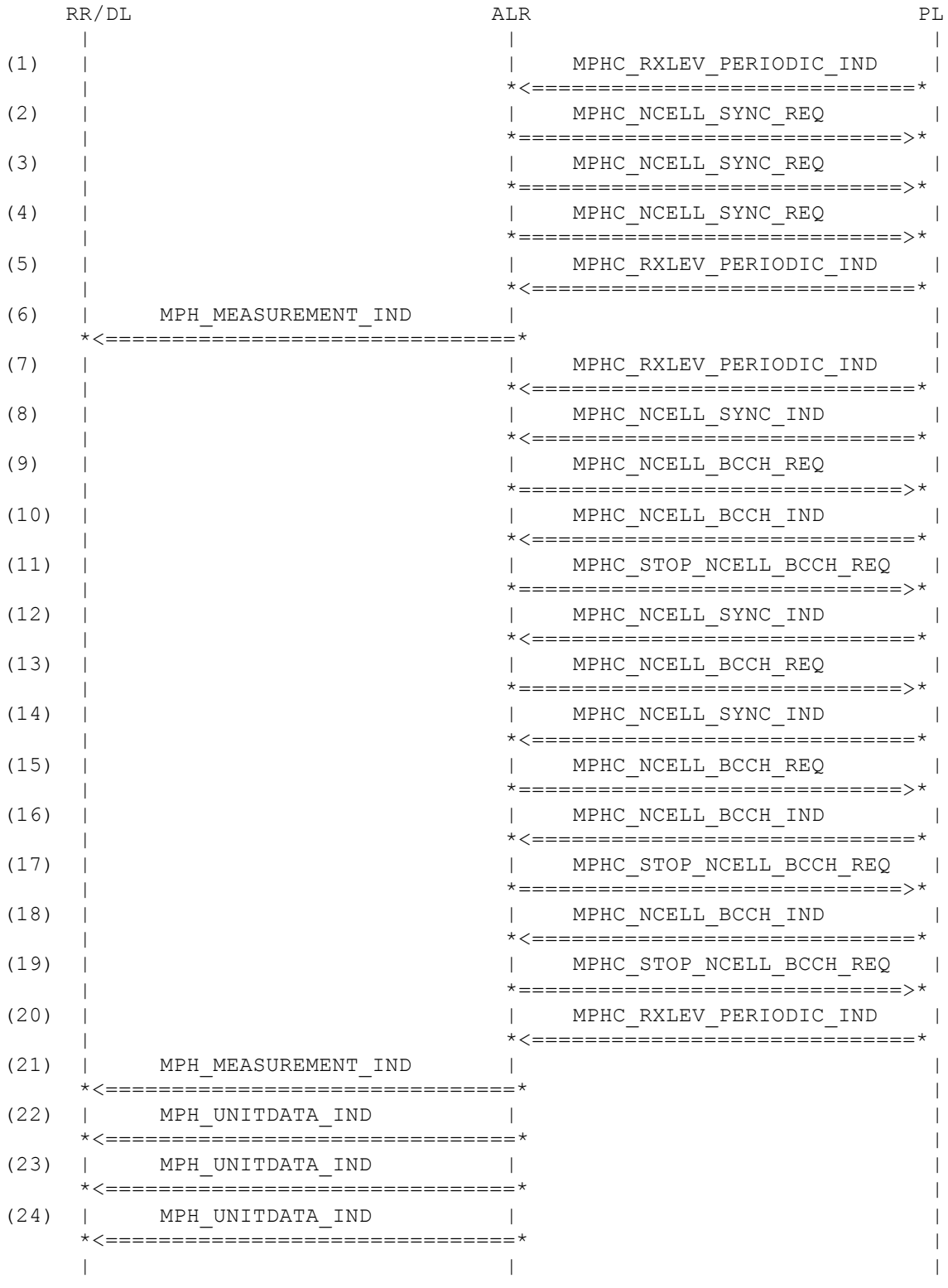
Primitive	Parameter	Value
(1) EM_L1_EVENT_REQ		
	bitmask_l1_h	Bitm_H
	bitmask_l1_l	Bitm_L
(2) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	INVALID_BLOCK
	l2_frame	L2_NO_CONTENT
	tc	TC_3
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(3) MPH_ERROR_IND		
	cs	CS_BCCH_READ_ERROR
	arfcn	ARFCN_23
(4) EM_DATA_IND		
	entity	ENTITY

History: 23-Oct-01 OT Initial

4.3 PLMN Selection(GSM 900)

4.3.1 ALR084: Init Ncell data, 4 channels available

Description: RR starts ncell measurements for cells 23, 14, 124, 1.
Preamble: ALR013



Parametrization

Primitive	Parameter	Value
(1) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1

(2) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_14
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_INVALID_TIMING_INFO

(3) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_124
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_INVALID_TIMING_INFO

(4) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_1
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_INVALID_TIMING_INFO

(5) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(6) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_816
ncells	NCELLS_NO_CONTENT
gprs_sync	NOT_USED

(7) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(8) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_14
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
bsic	BSIC_1

(9) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_14
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(10) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_14
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK

	l2_frame	L2_SYS_INFO_3
	tc	TC_2
	fn	FN_OFFSET_14
(11) MPHC_STOP_NCELL_BCCH_REQ		
	radio_freq_array_size	ONE_ELEM
	radio_freq_array	STOP_ARRAY_14
(12) MPHC_NCELL_SYNC_IND		
	radio_freq	ARFCN_124
	sb_flag	SB_FOUND
	fn_offset	FN_OFFSET_124
	time_alignment	TIME_ALIGNMT_124
	bsic	BSIC_1
(13) MPHC_NCELL_BCCH_REQ		
	radio_freq	ARFCN_124
	fn_offset	FN_OFFSET_124
	time_alignment	TIME_ALIGNMT_124
	tsc	BSIC_1
	bcch_blocks_required	NCELL_BCCH_SI_3_4
	gprs_prio	NOT_USED
(14) MPHC_NCELL_SYNC_IND		
	radio_freq	ARFCN_1
	sb_flag	SB_FOUND
	fn_offset	FN_OFFSET_1
	time_alignment	TIME_ALIGNMT_1
	bsic	BSIC_1
(15) MPHC_NCELL_BCCH_REQ		
	radio_freq	ARFCN_1
	fn_offset	FN_OFFSET_1
	time_alignment	TIME_ALIGNMT_1
	tsc	BSIC_1
	bcch_blocks_required	NCELL_BCCH_SI_3_4
	gprs_prio	NOT_USED
(16) MPHC_NCELL_BCCH_IND		
	radio_freq	ARFCN_124
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_3
	tc	TC_2
	fn	FN_OFFSET_124
(17) MPHC_STOP_NCELL_BCCH_REQ		
	radio_freq_array_size	ONE_ELEM
	radio_freq_array	STOP_ARRAY_124
(18) MPHC_NCELL_BCCH_IND		
	radio_freq	ARFCN_1
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_3
	tc	TC_2
	fn	FN_OFFSET_1
(19) MPHC_STOP_NCELL_BCCH_REQ		
	radio_freq_array_size	ONE_ELEM
	radio_freq_array	STOP_ARRAY_1

(20) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(21) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_408
ncells	NCELLS_1_14_124
gprs_sync	NOT_USED

(22) MPH_UNITDATA_IND

arfcn	ARFCN_1
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(23) MPH_UNITDATA_IND

arfcn	ARFCN_14
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(24) MPH_UNITDATA_IND

arfcn	ARFCN_124
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK

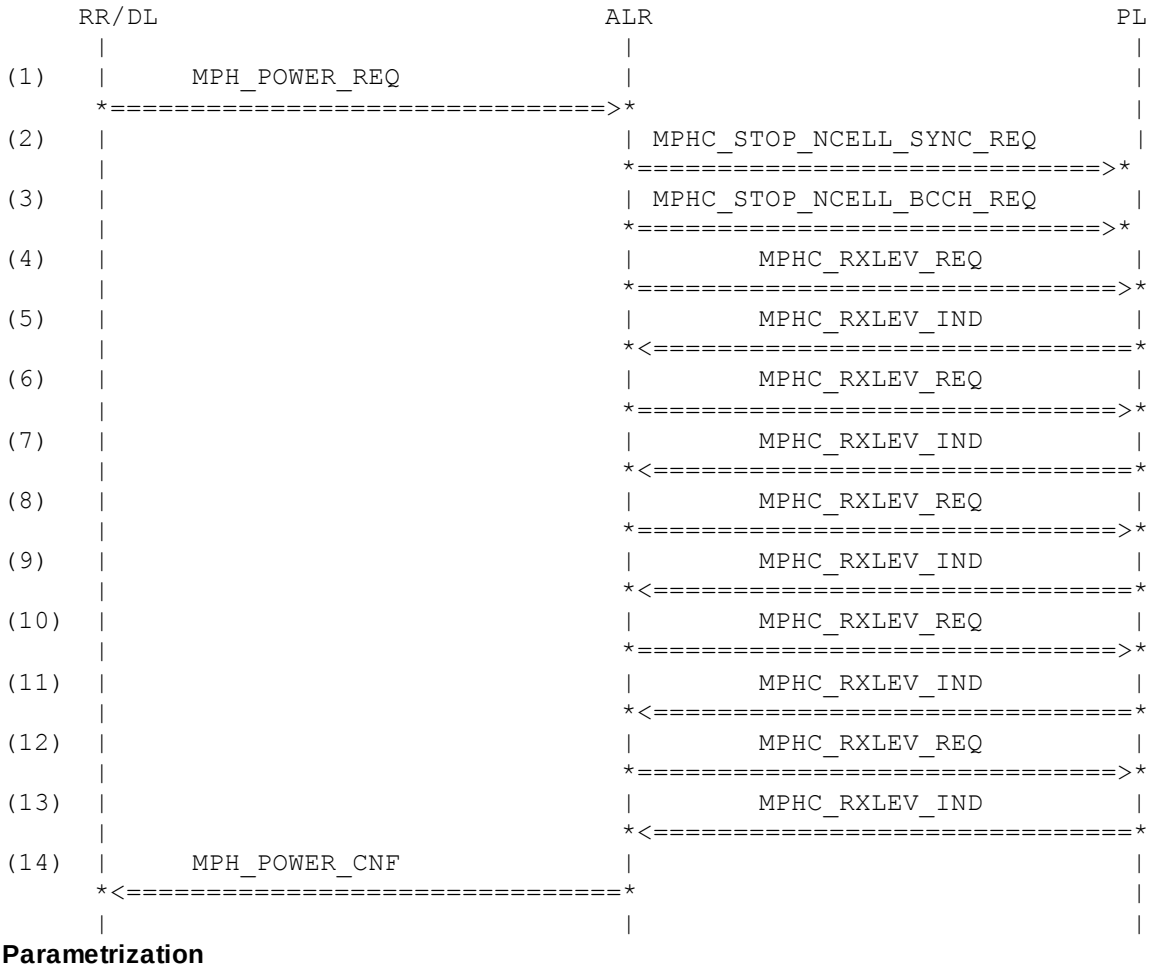
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

History:	24.09.99	MPA	Initial
	07.02.02	LG	changed value for ba_id

4.3.2 ALR085: Initiation by RR, 4 channels available

Description: RR starts a full list power measurement with power measurements. Four channels in the order 23, 14, 124, 1 have acceptable fieldstrength values.

Preamble: ALR084



Parametrization

Primitive	Parameter	Value
(1) MPH_POWER_REQ		
	pch_interrupt	NO_PCH_INTERRUPT
	freq_bands	NOT_USED
(2) MPHC_STOP_NCELL_SYNC_REQ		
	radio_freq_array_size	STOP_SIZE_0
	radio_freq_array	NOT_USED

(3) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	STOP_SIZE_0
radio_freq_array	NOT_USED

(4) MPHC_RXLEV_REQ

shared_ptr	NOT_USED

(5) MPHC_RXLEV_IND

shared_ptr	RXLEV_IDX_1

(6) MPHC_RXLEV_REQ

shared_ptr	NOT_USED

(7) MPHC_RXLEV_IND

shared_ptr	RXLEV_IDX_1

(8) MPHC_RXLEV_REQ

shared_ptr	NOT_USED

(9) MPHC_RXLEV_IND

shared_ptr	RXLEV_IDX_1

(10) MPHC_RXLEV_REQ

shared_ptr	NOT_USED

(11) MPHC_RXLEV_IND

shared_ptr	RXLEV_IDX_1

(12) MPHC_RXLEV_REQ

shared_ptr	NOT_USED

(13) MPHC_RXLEV_IND

shared_ptr	RXLEV_IDX_1

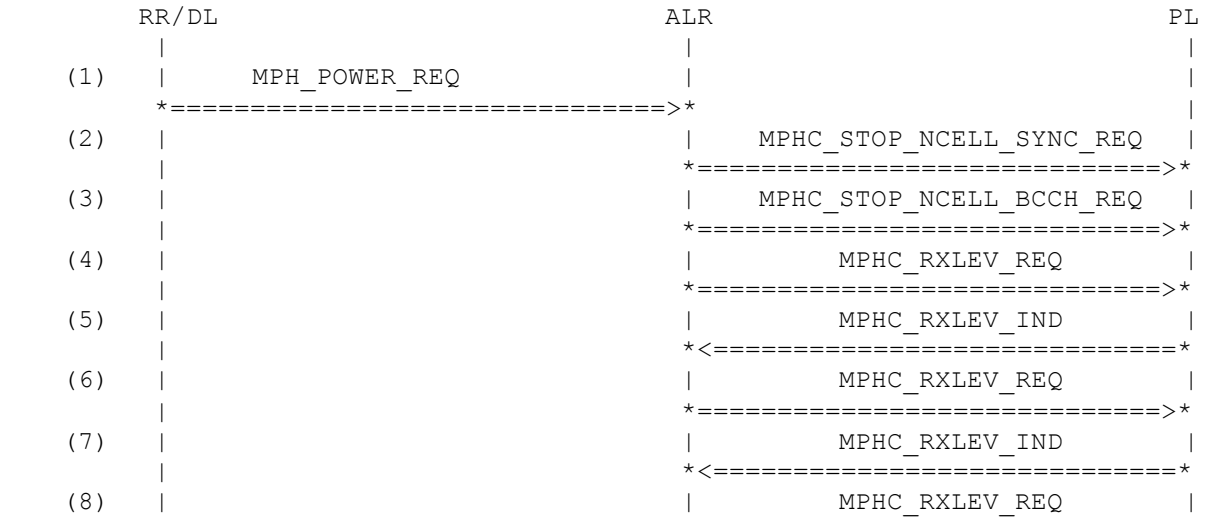
(14) MPH_POWER_CNF

num_of_chan	CHANNELS_4
arfcn	ARFCN_23_14_124_1
rx_lev	RXLEV_23_14_124_1

History:	24.09.99	MPA	Initial

4.3.3 ALR086: Initiation by RR, no channels available

Description: RR starts a full list power measurement. No suitable channel is available.
Preamble: ALR013



Parametrization

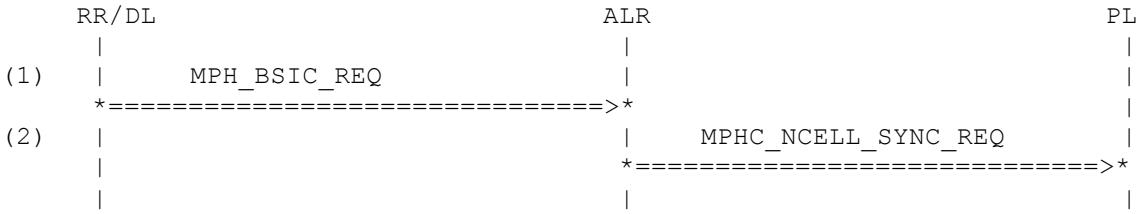
Primitive	Parameter	Value
(1) MPH_POWER_REQ		
	pch_interrupt	NO_PCH_INTERRUPT
	freq_bands	NOT_USED
(2) MPHC_STOP_NCELL_SYNC_REQ		
	radio_freq_array_size	STOP_SIZE_0
	radio_freq_array	NOT_USED
(3) MPHC_STOP_NCELL_BCCH_REQ		
	radio_freq_array_size	STOP_SIZE_0
	radio_freq_array	NOT_USED
(4) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(5) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_2
(6) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(7) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_2
(8) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(9) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_2
(10) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(11) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_2
(12) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(13) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_2
(14) MPH_POWER_CNF		
	num_of_chan	CHANNELS_0
	arfcn	NOT_USED
	rx_lev	NOT_USED

History: 22.09.99 MPA Initial

4.3.4 ALR088: Find BCCH carrier, second channel

Description: The non-serving cell carrier with the highest fieldstrength (channel 14) is selected for synchronizing to frequency correction burst and synchron burst.

Preamble: ALR085



Parametrization

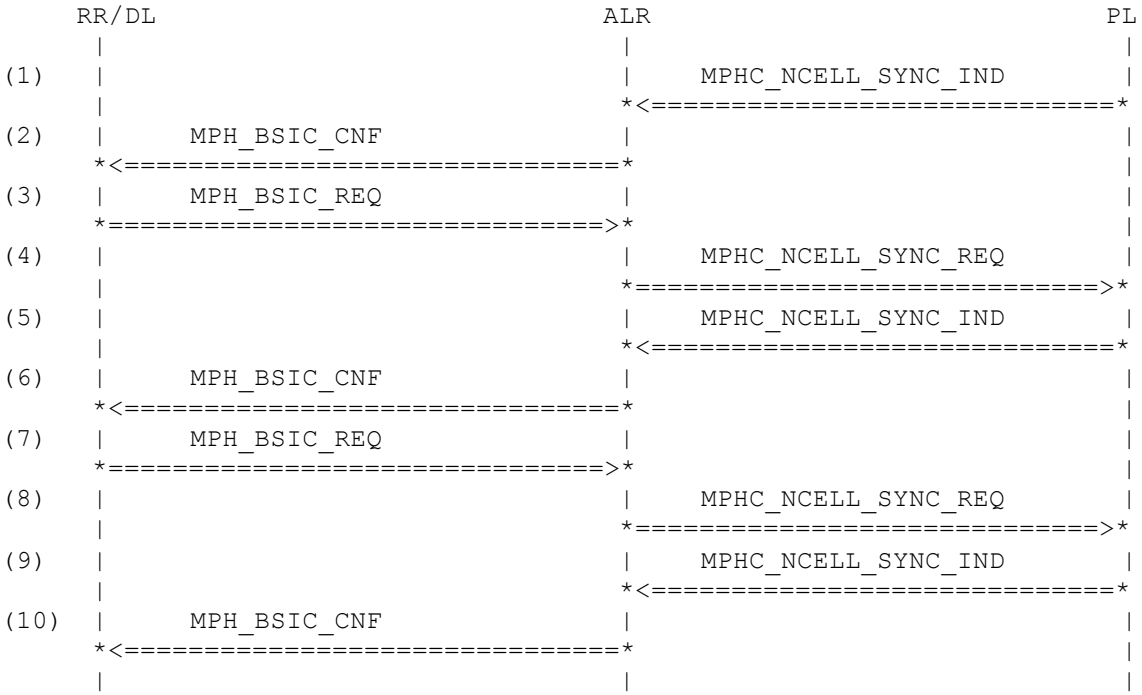
Primitive	Parameter	Value
(1) MPH_BSIC_REQ		
	arfcn	ARFCN_14
(2) MPHC_NCELL_SYNC_REQ		
	radio_freq	ARFCN_14
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO

History: 24.09.99 MPA Initial

4.3.5 ALR089: Find BCCH carrier, all channels failed, then error indication

Description: All synchronization attempts to the available channels fail. RR is informed by an error indication with the cause no BCCH available.

Preamble: ALR088



Parametrization

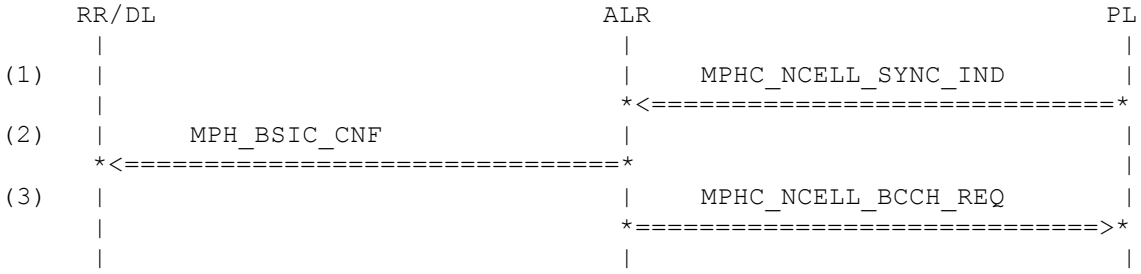
Primitive	Parameter	Value
(1) MPHC_NCELL_SYNC_IND		
	radio_freq	ARFCN_14
	sb_flag	NO_SB_FOUND
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	bsic	BSIC_0
(2) MPH_BSIC_CNF		
	arfcn	ARFCN_14
	bsic	NOT_USED
	cs	CS_NO_BCCH_AVAIL
(3) MPH_BSIC_REQ		
	arfcn	ARFCN_124
(4) MPHC_NCELL_SYNC_REQ		
	radio_freq	ARFCN_124
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
(5) MPHC_NCELL_SYNC_IND		
	radio_freq	ARFCN_124
	sb_flag	NO_SB_FOUND
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	bsic	BSIC_0
(6) MPH_BSIC_CNF		
	arfcn	ARFCN_124
	bsic	NOT_USED
	cs	CS_NO_BCCH_AVAIL
(7) MPH_BSIC_REQ		
	arfcn	ARFCN_1
(8) MPHC_NCELL_SYNC_REQ		
	radio_freq	ARFCN_1
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
(9) MPHC_NCELL_SYNC_IND		
	radio_freq	ARFCN_1
	sb_flag	NO_SB_FOUND
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	bsic	BSIC_0
(10) MPH_BSIC_CNF		
	arfcn	ARFCN_1
	bsic	NOT_USED
	cs	CS_NO_BCCH_AVAIL

History: 24.09.99 MPA Initial

4.3.6 ALR090: Find BCCH carrier, second channel

Description: The next best channel (channel 14) is selected for synchronizing to frequency correction burst and synchron burst.

Preamble: ALR088



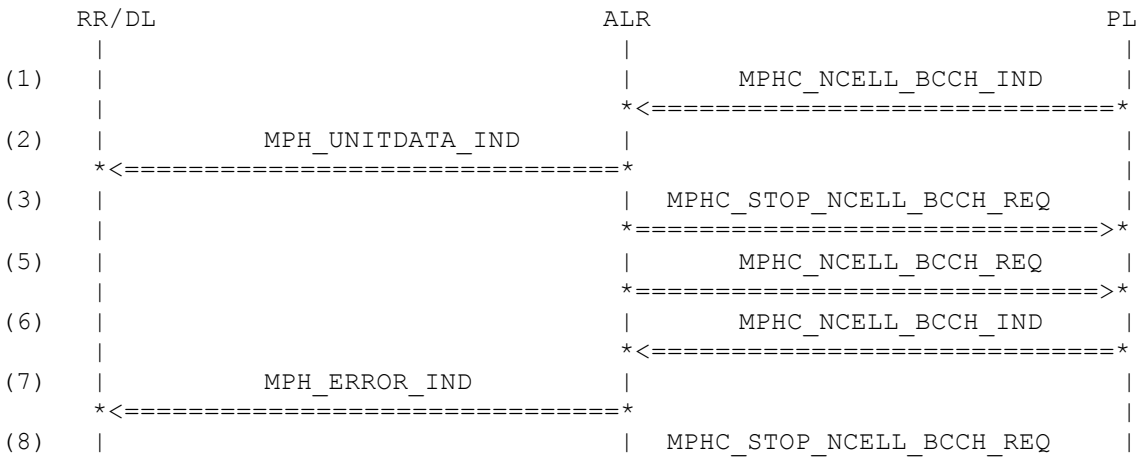
Parametrization

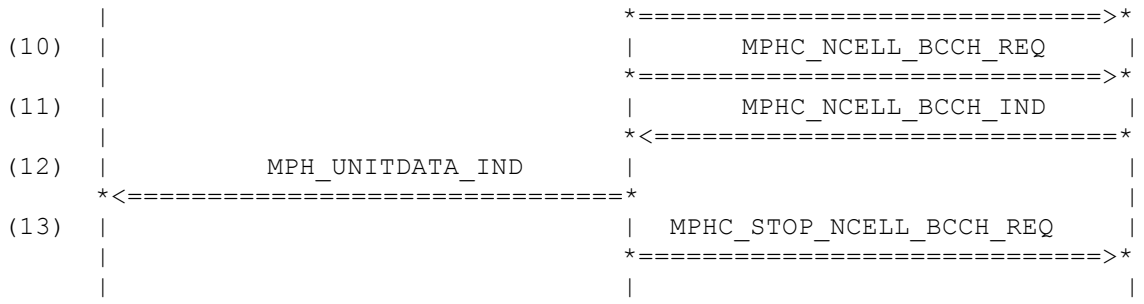
Primitive	Parameter	Value
(1) MPHC_NCELL_SYNC_IND		
	radio_freq	ARFCN_14
	sb_flag	SB_FOUND
	fn_offset	FN_OFFSET_14
	time_alignment	TIME_ALIGNMT_14
	bsic	BSIC_1
(2) MPH_BSIC_CNF		
	arfcn	ARFCN_14
	bsic	BSIC_1
	cs	CS_NO_ERROR
(3) MPHC_NCELL_BCCH_REQ		
	radio_freq	ARFCN_14
	fn_offset	FN_OFFSET_14
	time_alignment	TIME_ALIGNMT_14
	tsc	BSIC_1
	bcch_blocks_required	NCELL_BCCH_SI_2_3_4
	gprs_prio	NOT_USED

History: 24.09.99 MPA Initial

4.3.7 ALR091: Read BCCH data

Description: The BCCH data blocks are read for the channel 14.
Preamble: ALR090





Parametrization

Primitive	Parameter	Value
(1) MPHC_NCELL_BCCH_IND		
	radio_freq	ARFCN_14
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_2
	tc	TC_1
	fn	FN_OFFSET_14
(11) MPH_UNITDATA_IND		
	arfcn	ARFCN_14
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_2
	ti	TI_0
	neigh_cell_desc	NEIGH_CELL_DESC_1
	ncc_permit	NCC_PERMIT_1
	rach_ctrl	RACH_CTRL_1
	}	
(2) MPHC_STOP_NCELL_BCCH_REQ		
	radio_freq_array_size	STOP_SIZE_1
	radio_freq_array	STOP_ARRAY_14
(3) MPHC_NCELL_BCCH_REQ		
	radio_freq	ARFCN_14
	fn_offset	FN_OFFSET_14
	time_alignment	TIME_ALIGNMT_14
	tsc	BSIC_1
	bcch_blocks_required	NCELL_BCCH_SI_3_4
	gprs_prio	NOT_USED
(4) MPHC_NCELL_BCCH_IND		
	radio_freq	ARFCN_14
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	INVALID_BLOCK
	l2_frame	L2_SYS_INFO_3
	tc	TC_2
	fn	FN_OFFSET_14
(5) MPH_ERROR_IND		
	cs	CS_BCCH_READ_ERROR
	arfcn	ARFCN_14
(6) MPHC_STOP_NCELL_BCCH_REQ		
	radio_freq_array_size	STOP_SIZE_1
	radio_freq_array	STOP_ARRAY_14

(7) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_14
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(8) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_14
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_14

(12) MPH_UNITDATA_IND

arfcn	ARFCN_14
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(9) MPHC_STOP_NCELL_BCCH_REQ

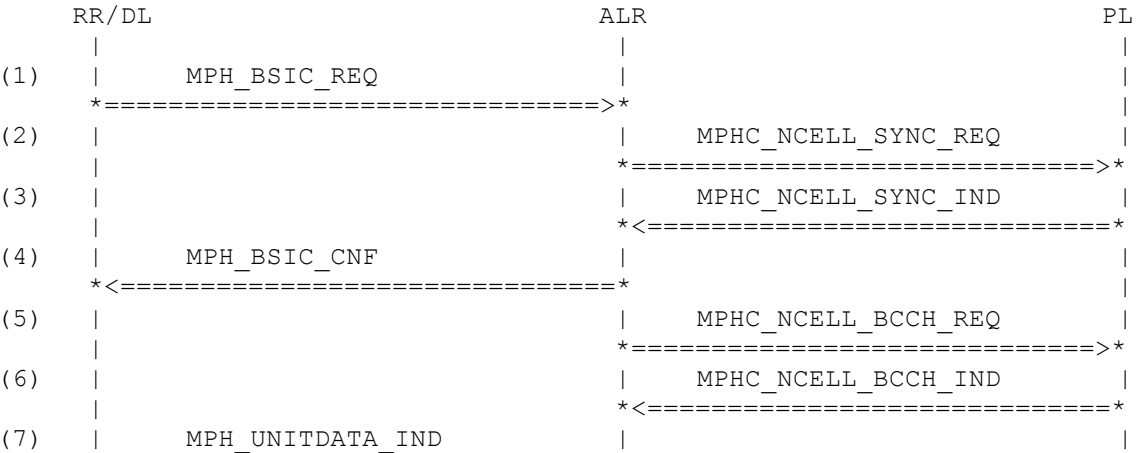
radio_freq_array_size	STOP_SIZE_1
radio_freq_array	STOP_ARRAY_14

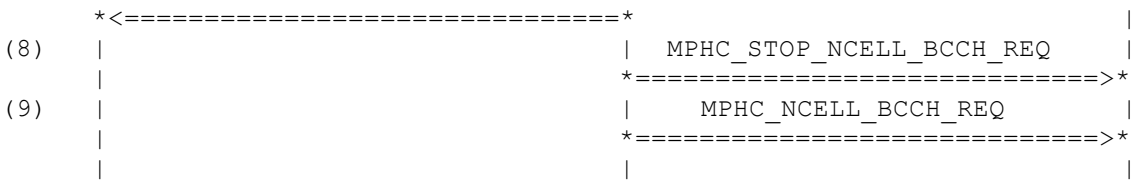
History: 24.09.99 MPA Initial

4.3.8 ALR093: RR rejects BCCH carrier, try third channel

Description: RR rejects the BCCH carrier. The next best channel (channel 124) is selected for synchronizing to frequency correction burst and synchron burst.

Preamble: ALR091





Parametrization

Primitive	Parameter	Value
(1) MPH_BSIC_REQ		
	arfcn	ARFCN_124
(2) MPHC_NCELL_SYNC_REQ		
	radio_freq	ARFCN_124
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
(3) MPHC_NCELL_SYNC_IND		
	radio_freq	ARFCN_124
	sb_flag	SB_FOUND
	fn_offset	FN_OFFSET_124
	time_alignment	TIME_ALIGNMT_124
	bsic	BSIC_1
(4) MPH_BSIC_CNF		
	arfcn	ARFCN_124
	bsic	BSIC_1
	cs	CS_NO_ERROR
(5) MPHC_NCELL_BCCH_REQ		
	radio_freq	ARFCN_124
	fn_offset	FN_OFFSET_124
	time_alignment	TIME_ALIGNMT_124
	tsc	BSIC_1
	bcch_blocks_required	NCELL_BCCH_SI_2_3_4
	gprs_prio	NOT_USED
(6) MPHC_NCELL_BCCH_IND		
	radio_freq	ARFCN_124
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_3
	tc	TC_0
	fn	FN_OFFSET_124
(13) MPH_UNITDATA_IND		
	arfcn	ARFCN_124
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_3
	ti	TI_0
	cell_ident	CELL_IDENT_1
	loc_area_ident	LOC_AREA_IDENT_1
	ctrl_chan_desc	CTRL_CHAN_DESC_1
	cell_opt_bcch	CELL_OPT_BCCH_1
	cell_select	CELL_SELECT_1

	rach_ctrl	RACH_CTRL_1
	}	

(7) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	STOP_SIZE_1
radio_freq_array	STOP_ARRAY_124

(8) MPHC_NCELL_BCCH_REQ

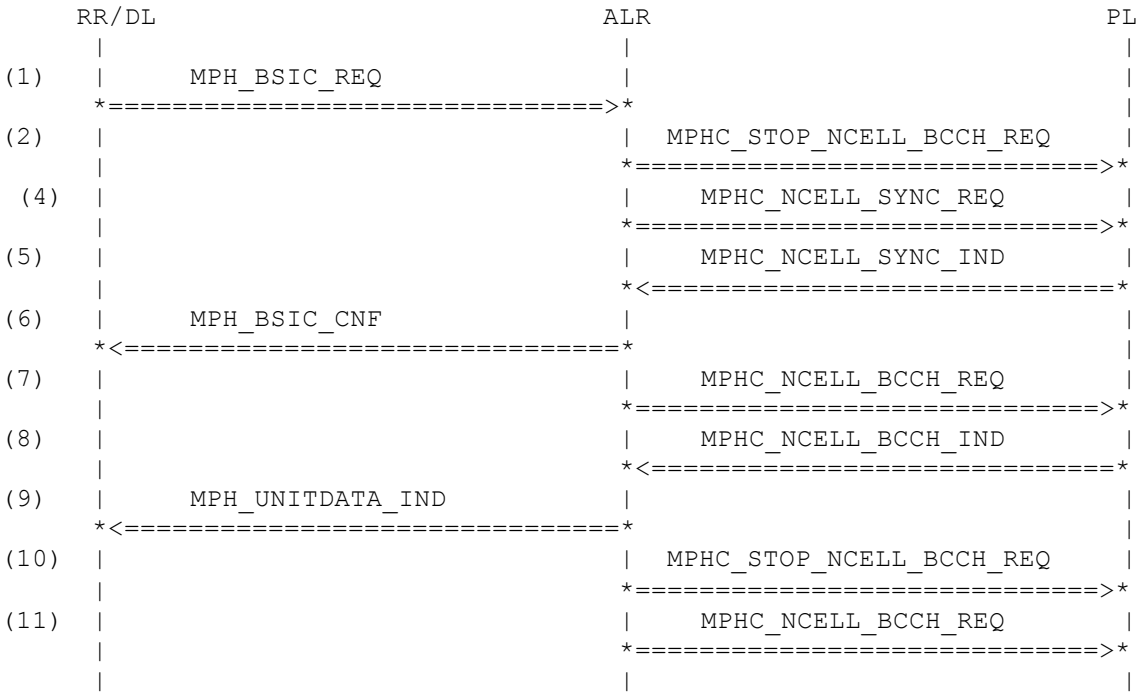
radio_freq	ARFCN_124
fn_offset	FN_OFFSET_124
time_alignment	TIME_ALIGNMT_124
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_2
gprs_prio	NOT_USED

History: 24.09.99 MPA Initial

4.3.9 ALR094: RR rejects BCCH carrier, try fourth channel

Description: RR rejects the BCCH carrier. The next best channel (channel 1) is selected for synchronising to frequency correction burst and synchron burst.

Preamble: ALR093



Parametrization

Primitive	Parameter	Value

(1) MPH_BSIC_REQ

arfcn	ARFCN_1

(2) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	STOP_SIZE_1
radio_freq_array	STOP_ARRAY_124

(3) MPHC_NCELL_SYNC_REQ

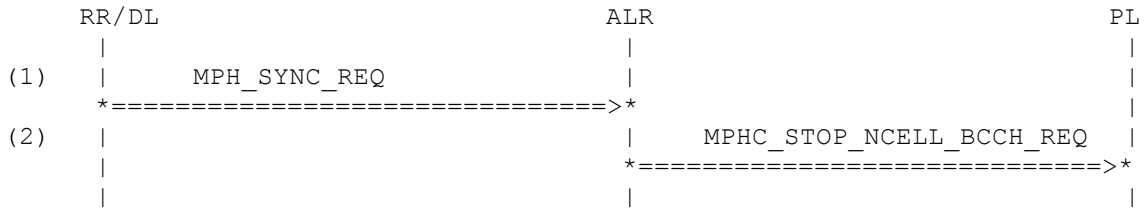
radio_freq	ARFCN_1
fn_offset	NOT_USED

	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
(4) MPHC_NCELL_SYNC_IND		
	radio_freq	ARFCN_1
	sb_flag	SB_FOUND
	fn_offset	FN_OFFSET_1
	time_alignment	TIME_ALIGNMT_1
	bsic	BSIC_1
(5) MPH_BSIC_CNF		
	arfcn	ARFCN_1
	bsic	BSIC_1
	cs	CS_NO_ERROR
(6) MPHC_NCELL_BCCH_REQ		
	radio_freq	ARFCN_1
	fn_offset	FN_OFFSET_1
	time_alignment	TIME_ALIGNMT_1
	tsc	BSIC_1
	bcch_blocks_required	NCELL_BCCH_SI_2_3_4
	gprs_prio	NOT_USED
(7) MPHC_NCELL_BCCH_IND		
	radio_freq	ARFCN_1
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_2
	tc	TC_0
	fn	FN_OFFSET_1
(14) MPH_UNITDATA_IND		
	arfcn	ARFCN_1
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_2
	ti	TI_0
	neigh_cell_desc	NEIGH_CELL_DESC_1
	ncc_permit	NCC_PERMIT_1
	rach_ctrl	RACH_CTRL_1
	}	
(8) MPHC_STOP_NCELL_BCCH_REQ		
	radio_freq_array_size	STOP_SIZE_1
	radio_freq_array	STOP_ARRAY_1
(9) MPHC_NCELL_BCCH_REQ		
	radio_freq	ARFCN_1
	fn_offset	FN_OFFSET_1
	time_alignment	TIME_ALIGNMT_1
	tsc	BSIC_1
	bcch_blocks_required	NCELL_BCCH_SI_3_4
	gprs_prio	NOT_USED

History: 24.09.99 MPA Initial

4.3.10 ALR095: RR rejects BCCH carrier, no further channel available

Description: RR rejects the BCCH carrier. No further channel is available.
Preamble: ALR094



Parametrization

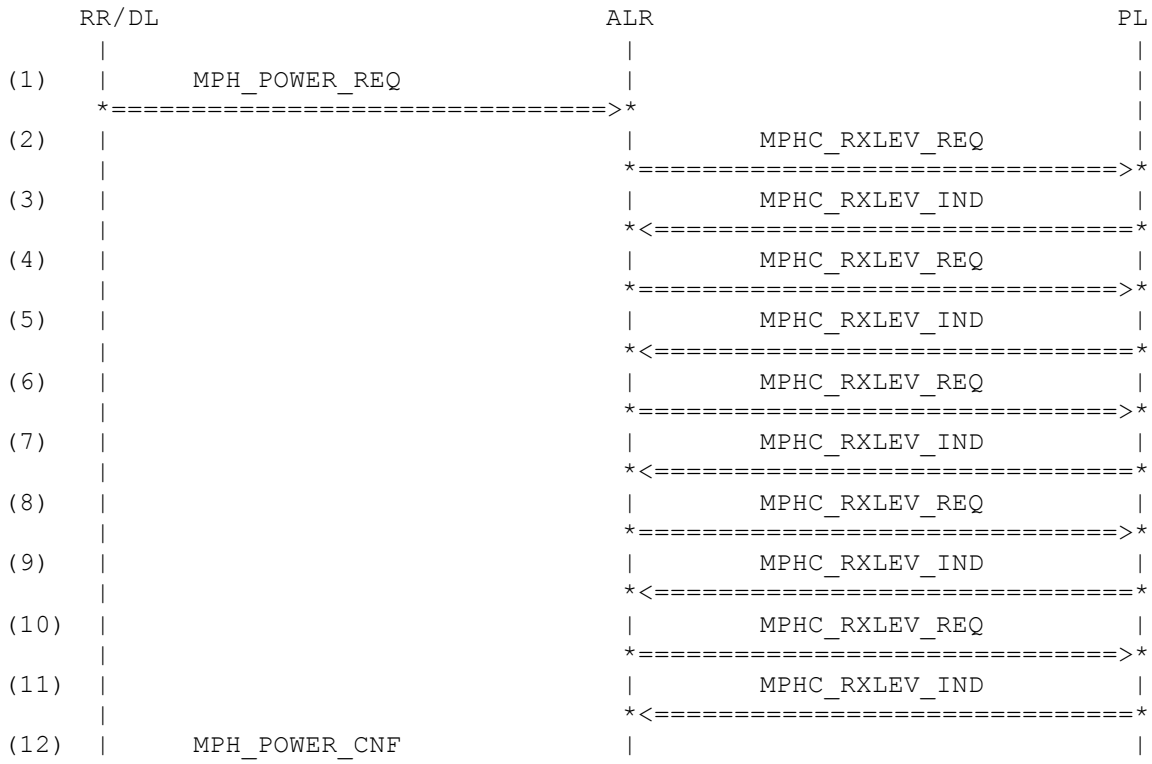
Primitive	Parameter	Value
(15) MPH_SYNC_REQ		
	cs	CS_STOP_PLMN_SEARCH
(16) MPHC_STOP_NCELL_BCCH_REQ		
	radio_freq_array_size	STOP_SIZE_1
	radio_freq_array	STOP_ARRAY_1

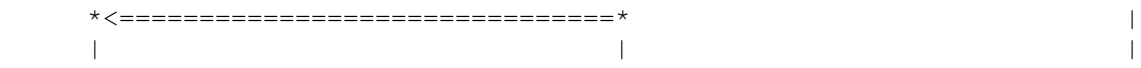
History: 24.09.99 MPA Initial

4.4 Cell Selection(DCS 1800)

4.4.1 ALR201: Initiation by RR, 4 channels available

Description: RR starts a cell selection. Four channels in the order 637, 580, 885, 512 have acceptable fieldstrength values.
Preamble: ALR200





Parametrization

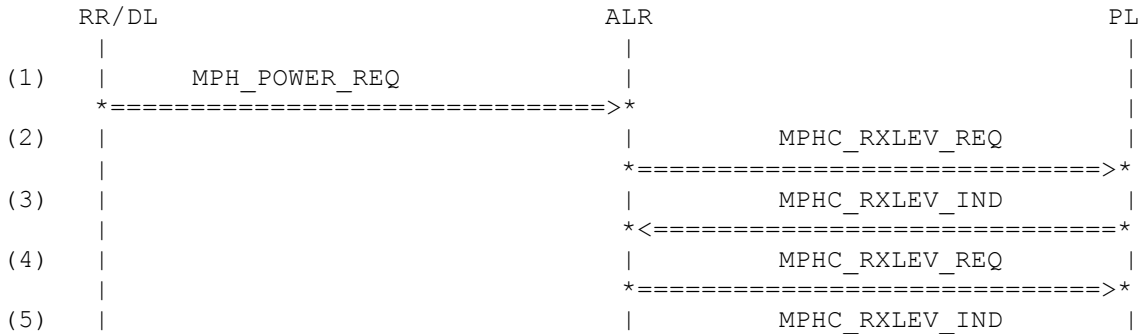
Primitive	Parameter	Value
(1) MPH_POWER_REQ		
	pch_interrupt	PCH_INTERRUPT
	freq_bands	NOT_USED
(2) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(3) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_3_1800
(4) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(5) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_3_1800
(6) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(7) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_3_1800
(8) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(9) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_3_1800
(10) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(11) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_3_1800
(12) MPH_POWER_CNF		
	num_of_chan	CHANNELS_4
	arfcn	ARFCN_637_580_885_512
	rx_lev	RXLEV_637_580_885_512

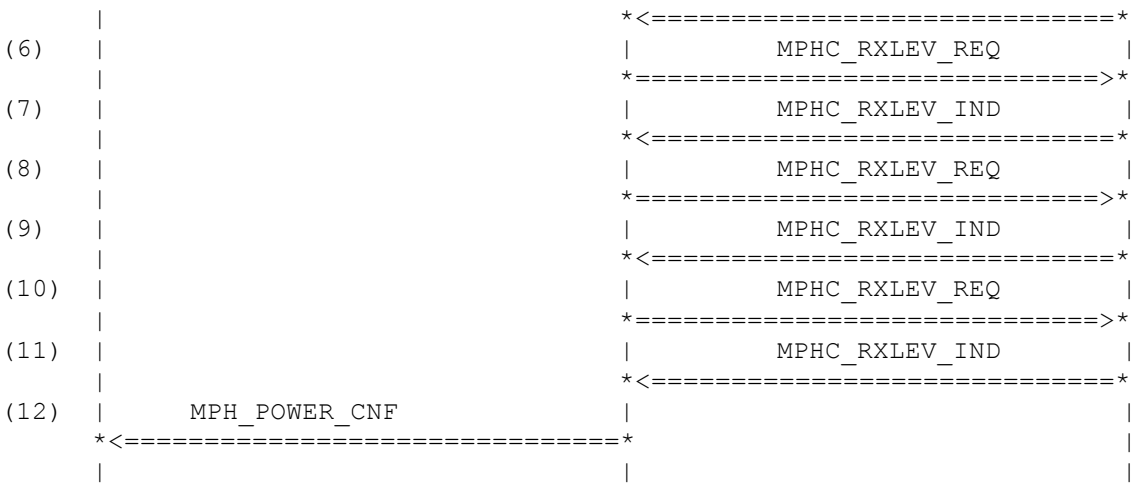
History: 22.09.99 MPA Initial

4.4.2 ALR202: Initiation by RR, no channels available

Description: RR starts a cell selection. No channel is available. After thirty attempts a failure is signalled to RR.

Preamble: ALR200





Parametrization

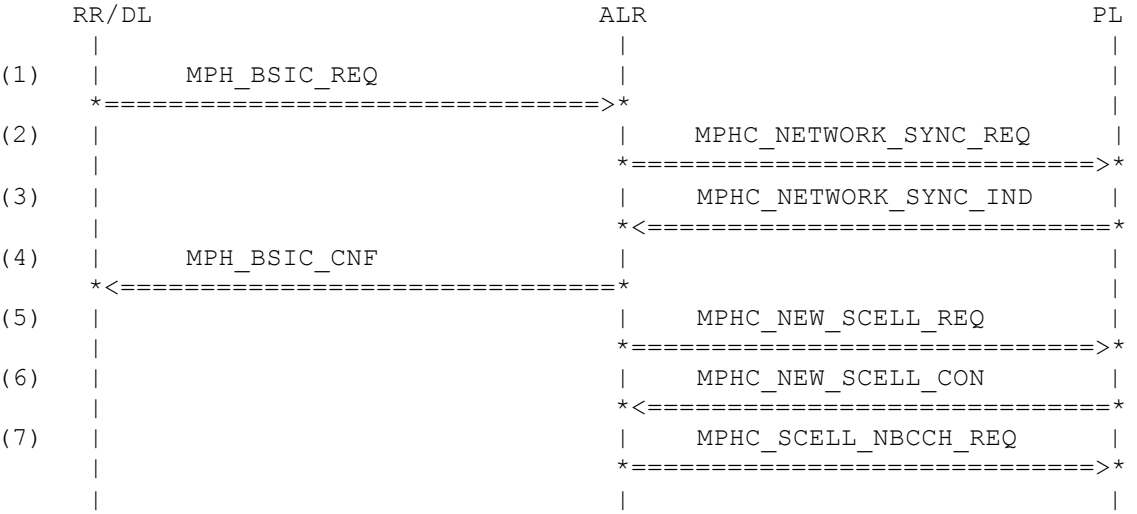
Primitive	Parameter	Value
(1) MPH_POWER_REQ		
	pch_interrupt	PCH_INTERRUPT
	freq_bands	NOT_USED
(2) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(3) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_2
(4) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(5) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_2
(6) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(7) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_2
(8) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(9) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_2
(10) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(11) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_2
(12) MPH_POWER_CNF		
	num_of_chan	CHANNELS_0
	arfcn	NOT_USED
	rx_lev	NOT_USED

History: 22.09.99 MPA Initial

4.4.3 ALR203: Find BCCH carrier, first channel

Description: The carrier with the highest fieldstrength (channel 637) is selected for synchronizing to frequency correction burst and synchron burst.

Preamble: ALR201



Parametrization

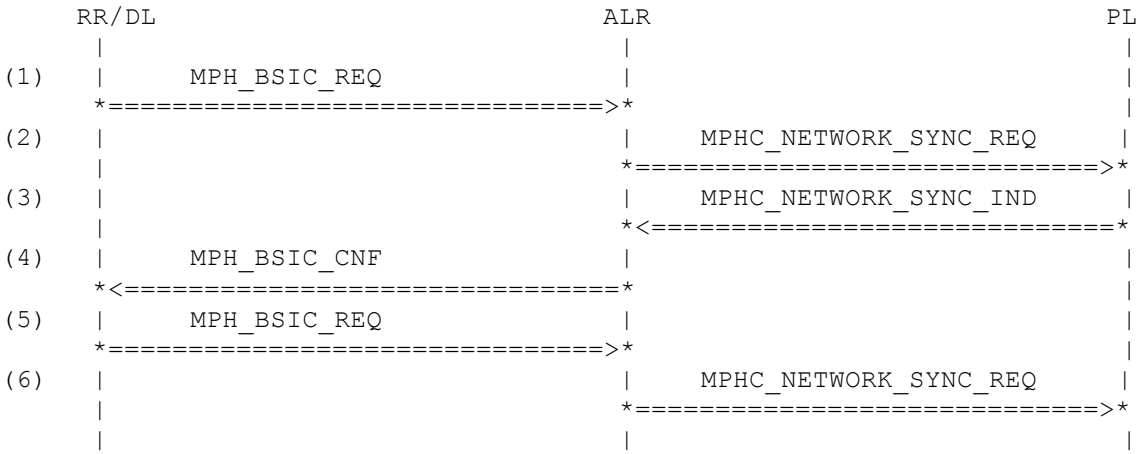
Primitive	Parameter	Value
(1) MPH_BSIC_REQ		
	arfcn	ARFCN_637
(2) MPHC_NETWORK_SYNC_REQ		
	radio_freq	ARFCN_637
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
	search_mode	SM_WIDE_MODE
(3) MPHC_NETWORK_SYNC_IND		
	radio_freq	ARFCN_637
	sb_flag	SB_FOUND
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	bsic	BSIC_1
(4) MPH_BSIC_CNF		
	arfcn	ARFCN_637
	bsic	BSIC_1
	cs	CS_NO_ERROR
(5) MPHC_NEW_SCELL_REQ		
	radio_freq	ARFCN_637
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	tsc	BSIC_1
(6) MPHC_NEW_SCELL_CON		
	param	NOT_USED
(7) MPHC_SCELL_NBCCH_REQ		
	schedule_array_size	SCHED_SIZE_1
	schedule_array	FULL_READ

History: 22.09.99 MPA Initial

4.4.4 ALR204: Find BCCH carrier, first channel failed, then second channel

Description: The carrier with the highest fieldstrength (channel 637) is selected for synchronizing to frequency correction burst and synchron burst. The attempt failed. A second request is started for the next strongest channel (channel 580).

Preamble: ALR201



Parametrization

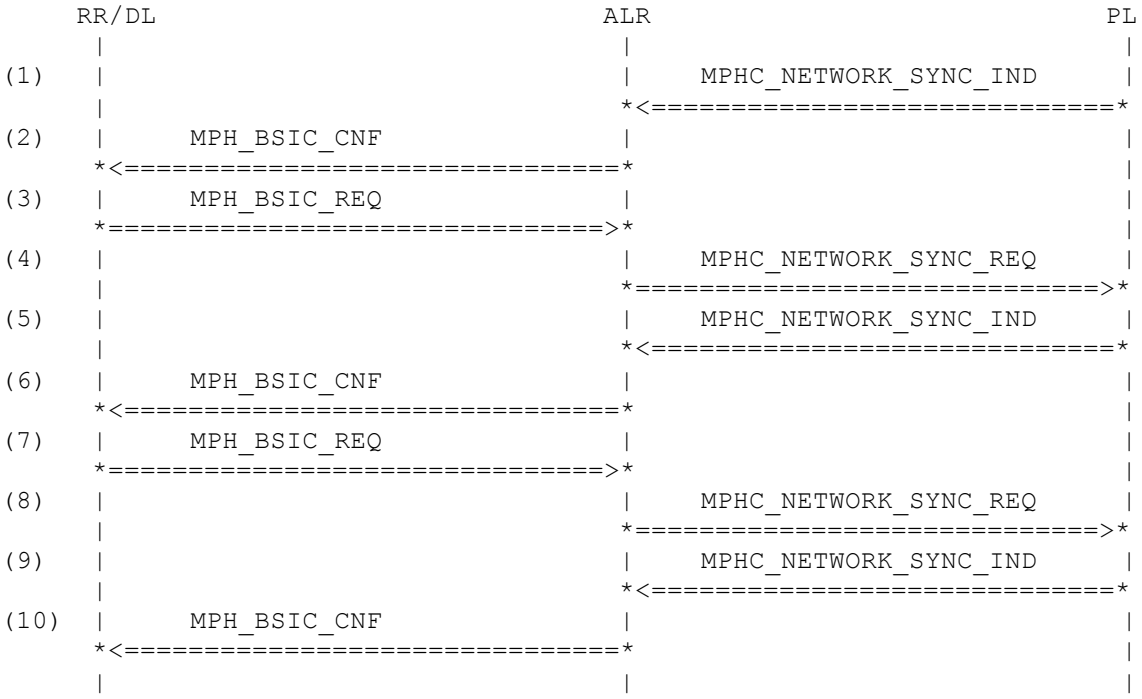
Primitive	Parameter	Value
(1) MPH_BSIC_REQ		
	arfcn	ARFCN_637
(2) MPHC_NETWORK_SYNC_REQ		
	radio_freq	ARFCN_637
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
	search_mode	SM_WIDE_MODE
(3) MPHC_NETWORK_SYNC_IND		
	radio_freq	ARFCN_637
	sb_flag	NO_SB_FOUND
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	bsic	BSIC_0
(4) MPH_BSIC_CNF		
	arfcn	ARFCN_637
	bsic	BSIC_0
	cs	CS_NO_BCCH_AVAIL
(5) MPH_BSIC_REQ		
	arfcn	ARFCN_580
(6) MPHC_NETWORK_SYNC_REQ		
	radio_freq	ARFCN_580
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
	search_mode	SM_WIDE_MODE

History: 22.09.99 MPA Initial

4.4.5 ALR205: Find BCCH carrier, all channels failed, then error indication

Description: All synchronization attempts to the available channels are failed. RR is informed by an error indication with the cause no BCCH available.

Preamble: ALR204



Parametrization

Primitive	Parameter	Value
(1) MPHC_NETWORK_SYNC_IND		
	radio_freq	ARFCN_580
	sb_flag	NO_SB_FOUND
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	bsic	BSIC_0
(2) MPH_BSIC_CNF		
	arfcn	ARFCN_580
	bsic	NOT_USED
	cs	CS_NO_BCCH_AVAIL
(3) MPH_BSIC_REQ		
	arfcn	ARFCN_885
(4) MPHC_NETWORK_SYNC_REQ		
	radio_freq	ARFCN_885
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
	search_mode	SM_WIDE_MODE
(5) MPHC_NETWORK_SYNC_IND		
	radio_freq	ARFCN_885
	sb_flag	NO_SB_FOUND
	fn_offset	FN_OFFSET_0

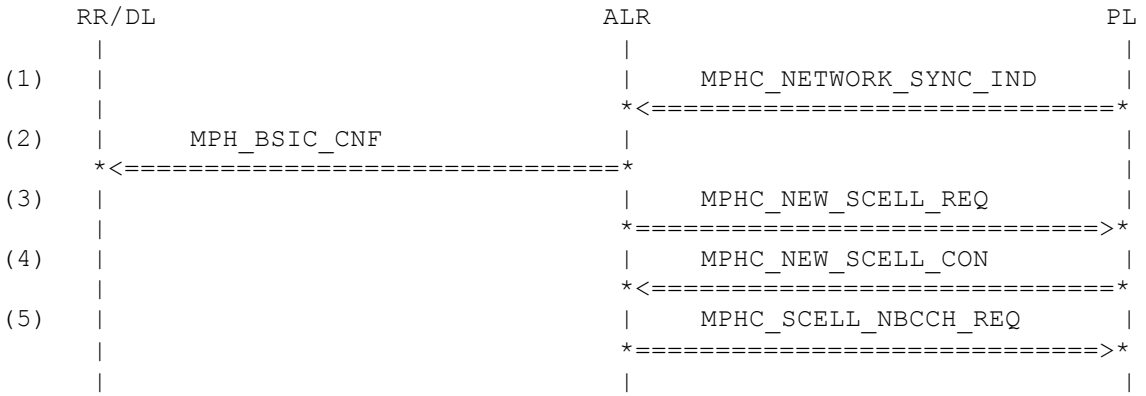
	time_alignment	TIME_ALIGNMT_0
	bsic	BSIC_0
(6) MPH_BSIC_CNF		
	arfcn	ARFCN_885
	bsic	NOT_USED
	cs	CS_NO_BCCH_AVAIL
(7) MPH_BSIC_REQ		
	arfcn	ARFCN_512
(8) MPHC_NETWORK_SYNC_REQ		
	radio_freq	ARFCN_512
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
	search_mode	SM_WIDE_MODE
(9) MPHC_NETWORK_SYNC_IND		
	radio_freq	ARFCN_512
	sb_flag	NO_SB_FOUND
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	bsic	BSIC_0
(10) MPH_BSIC_CNF		
	arfcn	ARFCN_512
	bsic	NOT_USED
	cs	CS_NO_BCCH_AVAIL

History: 22.09.99 MPA Initial

4.4.6 ALR206: Find BCCH carrier, second channel

Description: The next best channel (channel 14) is selected for synchronizing to frequency correction burst and synchron burst.

Preamble: ALR204



Parametrization

Primitive	Parameter	Value
(1) MPHC_NETWORK_SYNC_IND		
	radio_freq	ARFCN_580
	sb_flag	SB_FOUND
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	bsic	BSIC_0

(2) MPH_BSIC_CNF

arfcn	ARFCN_580
bsic	BSIC_0
cs	CS_NO_ERROR

(3) MPHC_NEW_SCELL_REQ

radio_freq	ARFCN_580
fn_offset	FN_OFFSET_0
time_alignment	TIME_ALIGNMT_0
tsc	BSIC_0

(4) MPHC_NEW_SCELL_CON

param	NOT_USED

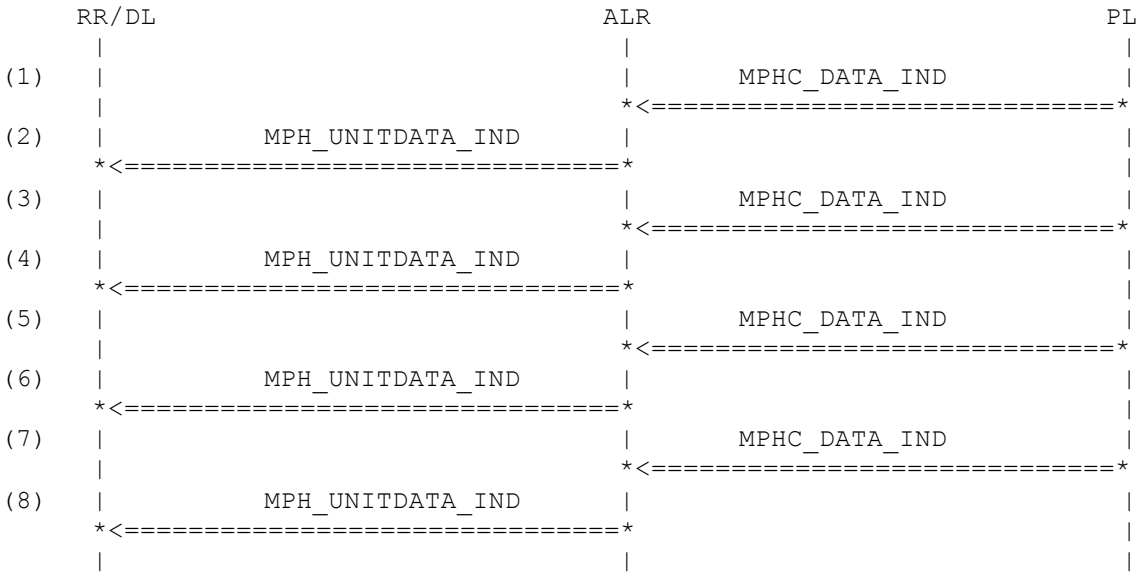
(5) MPHC_SCELL_NBCCH_REQ

schedule_array_size	SCHED_SIZE_1
schedule_array	FULL_READ

History: 23.09.99 MPA Initial

4.4.7 ALR207: Read BCCH data

Description: The BCCH data blocks are read for the channel 23.
Preamble: ALR203



Parametrization

Primitive	Parameter	Value

(1) MPHC_DATA_IND

radio_freq	ARFCN_637
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_1
tc	TC_0
ccch_lev	NOT_USED
fn	FN_OFFSET_0

(2) MPH_UNITDATA_IND

arfcn	ARFCN_637
fn	NOT_USED
sdu	
{	

component	RR
direction	DOWNLINK
pd	D_SYS_INFO_1
ti	TI_0
cell_chan_desc	CELL_CHAN_DESC_1
rach_ctrl	RACH_CTRL_1
}	

(3) MPHC_DATA_IND

radio_freq	ARFCN_637
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_2
tc	TC_1
ccch_lev	NOT_USED
fn	FN_OFFSET_0

(4) MPH_UNITDATA_IND

arfcn	ARFCN_637
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_2
ti	TI_0
neigh_cell_desc	NEIGH_CELL_DESC_1
ncc_permit	NCC_PERMIT_1
rach_ctrl	RACH_CTRL_1
}	

(5) MPHC_DATA_IND

radio_freq	ARFCN_637
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
ccch_lev	NOT_USED
fn	FN_OFFSET_0

(6) MPH_UNITDATA_IND

arfcn	ARFCN_637
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(7) MPHC_DATA_IND

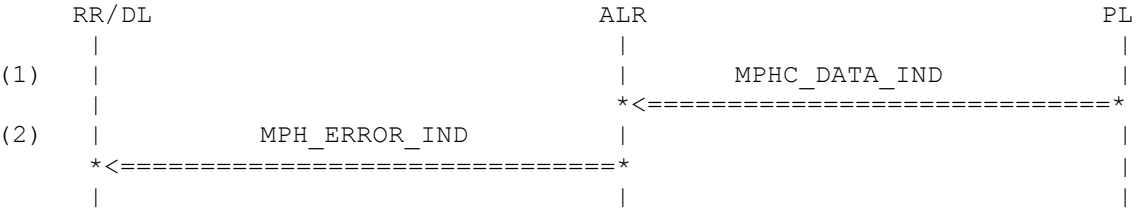
radio_freq	ARFCN_637
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK

	l2_frame	L2_SYS_INFO_4
	tc	TC_3
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(8) MPH_UNITDATA_IND		
	arfcn	ARFCN_637
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_4
	ti	TI_0
	loc_area_ident	LOC_AREA_IDENT_1
	cell_select	CELL_SELECT_1
	rach_ctrl	RACH_CTRL_1
	}	

History: 23.09.99 MPA Initial

4.4.8 ALR208: Read failed BCCH data

Description: A failed BCCH data block is read.
Preamble: ALR207



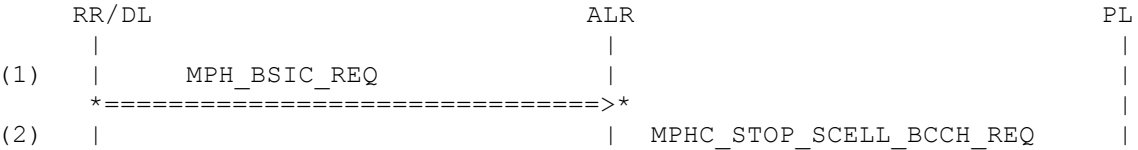
Parametrization

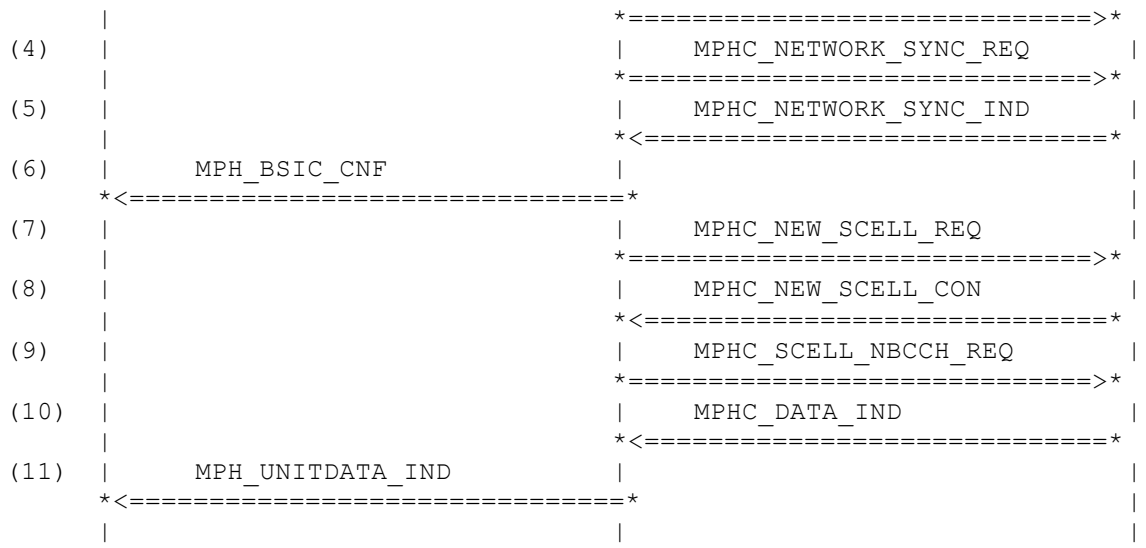
Primitive	Parameter	Value
(1) MPHC_DATA_IND		
	radio_freq	ARFCN_637
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	INVALID_BLOCK
	l2_frame	L2_NO_CONTENT
	tc	TC_3
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(2) MPH_ERROR_IND		
	cs	CS_BCCH_READ_ERROR
	arfcn	ARFCN_637

History: 23.09.99 MPA Initial

4.4.9 ALR209: RR rejects BCCH carrier, try third channel

Description: RR rejects the BCCH carrier. The next best channel (channel 124) is selected for synchronizing to frequency correction burst and synchron burst.
Preamble: ALR206





Parametrization

Primitive	Parameter	Value
(1) MPH_BSIC_REQ		
	arfcn	ARFCN_885
(2) MPHC_STOP_SCELL_BCCH_REQ		
	param	NOT_USED
(3) MPHC_NETWORK_SYNC_REQ		
	radio_freq	ARFCN_885
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
	search_mode	SM_WIDE_MODE
(4) MPHC_NETWORK_SYNC_IND		
	radio_freq	ARFCN_885
	sb_flag	SB_FOUND
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	bsic	BSIC_0
(5) MPH_BSIC_CNF		
	arfcn	ARFCN_885
	bsic	BSIC_0
	cs	CS_NO_ERROR
(6) MPHC_NEW_SCELL_REQ		
	radio_freq	ARFCN_885
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	tsc	BSIC_0
(7) MPHC_NEW_SCELL_CON		
	param	NOT_USED
(8) MPHC_SCELL_NBCCH_REQ		
	schedule_array_size	SCHED_SIZE_1
	schedule_array	FULL_READ
(9) MPHC_DATA_IND		
	radio_freq	ARFCN_885

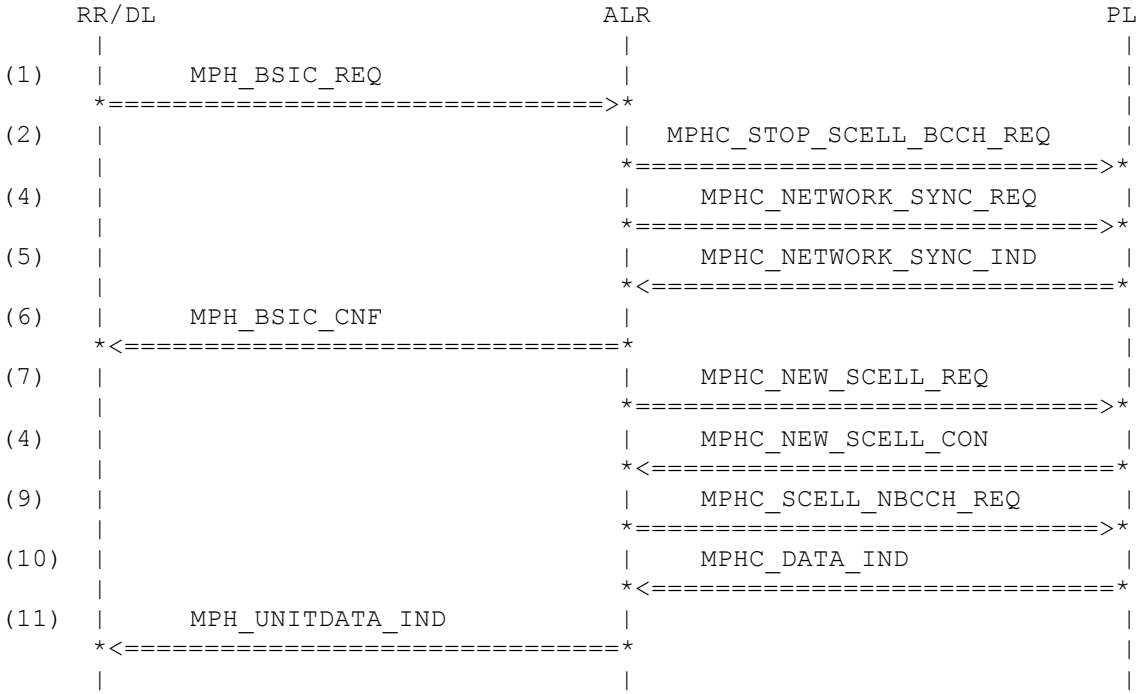
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_1
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(10) MPH_UNITDATA_IND		
	arfcn	ARFCN_885
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_1
	ti	TI_0
	cell_chan_desc	CELL_CHAN_DESC_1
	rach_ctrl	RACH_CTRL_1
	}	

History: 23.09.9 MPA Initial

4.4.10 ALR210: RR rejects BCCH carrier, try fourth channel

Description: RR rejects the BCCH carrier. The next best channel (channel 1) is selected for synchronising to frequency correction burst and synchron burst.

Preamble: ALR209



Parametrization

Primitive	Parameter	Value
(1) MPH_BSIC_REQ		
	arfcn	ARFCN_512
(2) MPHC_STOP_SCELL_BCCH_REQ		
	param	NOT_USED

(3) MPHC_NETWORK_SYNC_REQ

radio_freq	ARFCN_512
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_INVALID_TIMING_INFO
search_mode	SM_WIDE_MODE

(4) MPHC_NETWORK_SYNC_IND

radio_freq	ARFCN_512
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_0
time_alignment	TIME_ALIGNMT_0
bsic	BSIC_0

(5) MPH_BSIC_CNF

arfcn	ARFCN_512
bsic	BSIC_0
cs	CS_NO_ERROR

(6) MPHC_NEW_SCELL_REQ

radio_freq	ARFCN_512
fn_offset	FN_OFFSET_0
time_alignment	TIME_ALIGNMT_0
tsc	BSIC_0

(7) MPHC_NEW_SCELL_CON

param	NOT_USED

(8) MPHC_SCELL_NBCCH_REQ

schedule_array_size	SCHED_SIZE_1
schedule_array	NOT_USED

(9) MPHC_DATA_IND

radio_freq	ARFCN_512
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_1
tc	TC_0
ccch_lev	NOT_USED
fn	FN_OFFSET_0

(10) MPH_UNITDATA_IND

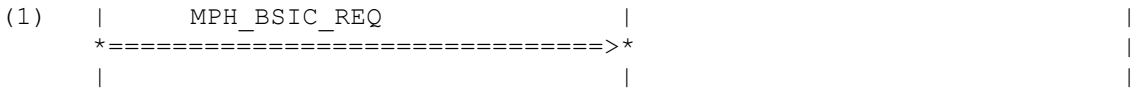
arfcn	ARFCN_512
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_1
ti	TI_0
cell_chan_desc	CELL_CHAN_DESC_1
rach_ctrl	RACH_CTRL_1
}	

History: 23.09.9 MPA Initial

4.4.11 ALR211: RR rejects BCCH carrier, no further channel available

Description: RR rejects the BCCH carrier. No further channel is available.
Preamble: ALR210

```
RR/DL                                ALR                                PL
 |                                    |                                  |
```



Parametrization

	Primitive	Parameter	Value
(1)	MPH_BSIC_REQ		
		arfcn	NOT_PRESENT_16BIT

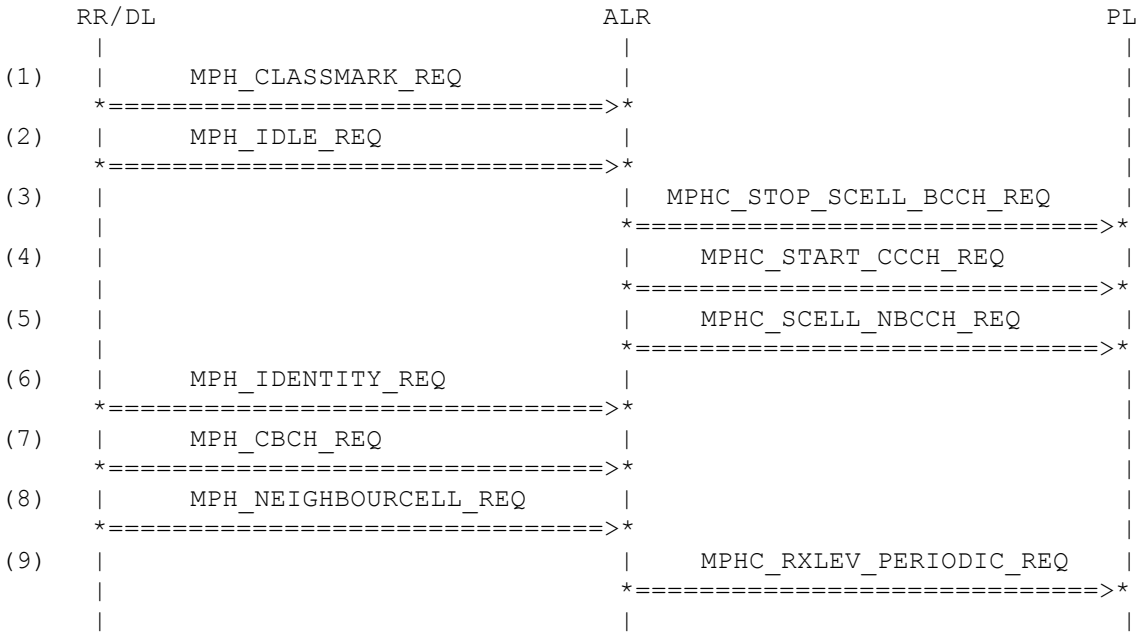
History: 23.09.99 MPA Initial

4.4.12 ALR212: RR select second channel

Description: RR selects the channel 14 after reading the BCCH carrier.
Variant A: with neighbourcell list
Variant B: with empty neighbour cell list
Variant C: like A, but non-combined CCCH

Preamble: ALR206

Variants: <A> .. <C>



Parametrization

	Primitive	Parameter	Value
(1)	MPH_CLASSMARK_REQ		
		classmark	CLASS_DCS_1800
(2)	MPH_IDLE_REQ		
		mod	MODE_CELL_SELECTION
		arfcn	ARFCN_580
		ext_bcch	NOT_USED
<A>		comb_ccch	COMB_CCCH_COMB
<B>		comb_ccch	COMB_CCCH_COMB
<C>		comb_ccch	COMB_CCCH_NOT_COMB
		tn	TN_0
		dlt	DLT_10
		pg	PG_20
		bs_ag_blocks_res	BS_AG_BLKS_RES_3
		bs_pa_mfrms	BS_PA_MFRMS_6
		power	POWER_12

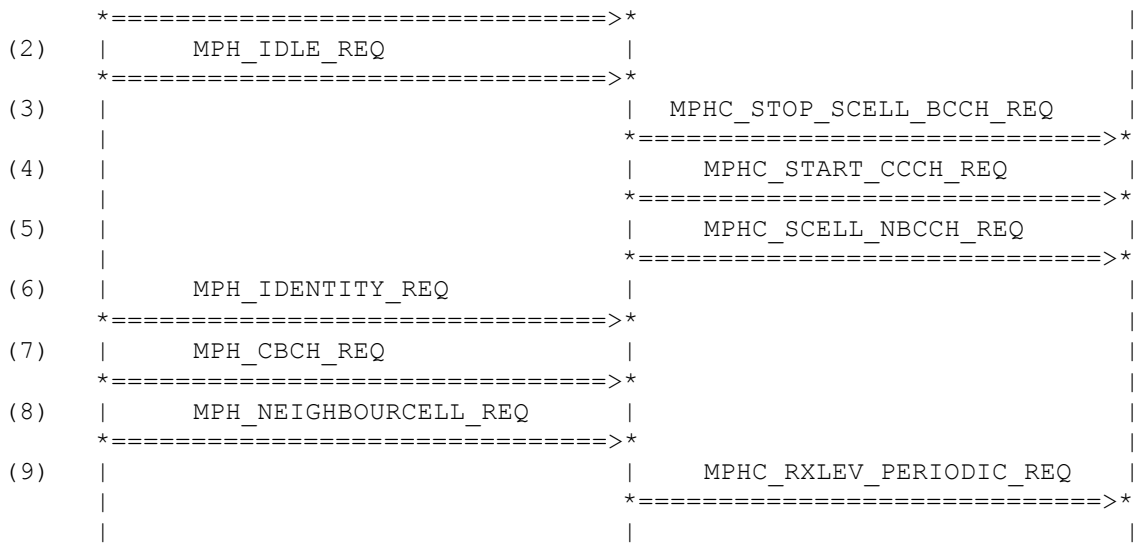
	ncc_permitted	NOT_PRESENT_8BIT
	reorg_only	NOT_USED
(3) MPHC_STOP_SCELL_BCCH_REQ		
	param	NOT_USED
(4) MPHC_START_CCCH_REQ		
	bs_pa_mfrms	BS_PA_MFRMS_8
	bs_ag_blks_res	BS_AG_BLKS_RES_3
<A>	bcch_combined	COMB_CCCH_COMB
<B>	bcch_combined	COMB_CCCH_COMB
<C>	bcch_combined	COMB_CCCH_NOT_COMB
	ccch_group	CCCH_GROUP_0
	page_group	PG_20
<A>	page_block_index	PBI_0
<B>	page_block_index	PBI_0
<C>	page_block_index	PBI_2
	page_mode	PGM_REORG
(5) MPHC_SCELL_NBCCH_REQ		
	schedule_array_size	SCHED_SIZE_1
	schedule_array	NOT_USED
(6) MPH_IDENTITY_REQ		
	mid	MS_ID_IMSI_TMSI
(7) MPH_CBCH_REQ		
	cbch	NO_CBCH
(8) MPH_NEIGHBOURCELL_REQ		
	multi_band	MULTI_BAND_0
<A>	arfcn	CHLIST_512_637_885_FFFF
<B>	arfcn	EMPTY_NCELL_LIST
<C>	arfcn	CHLIST_512_637_885_FFFF
	sync_only	NOT_USED
(9) MPHC_RXLEV_PERIODIC_REQ		
<A>	chan_list	CHLIST_580_512_637_885
<B>	chan_list	CHLIST_580
<C>	chan_list	CHLIST_580_512_637_885
<A>	num_of_chans	CHANNELS_4
<B>	num_of_chans	CHANNELS_1
<C>	num_of_chans	CHANNELS_4
	ba_id	BA_ID_1
	next_radio_freq_measured	CHAN_LIST_IDX_0

History:			
	23.09.99	MPA	Initial
	12.07.00	DG	MPH_CLASSMARK_REQ: class changed into classmark (Forum G23M / No 0057)
	20.07.01	MSB	channel list adapted
	07.02.02	LG	changed value of ba_id

4.4.13 ALR213: RR select first channel

Description: RR selects the channel 23 after reading the BCCH carrier.
Preamble: ALR203

```
     RR/DL                              ALR                              PL
      |                                  |                                |
(1)   |      MPH_CLASSMARK_REQ           |                                |
```



Parametrization

Primitive	Parameter	Value
(1) MPH_CLASSMARK_REQ		
	classmark	CLASS_GSM_900
(2) MPH_IDLE_REQ		
	mod	MODE_CELL_SELECTION
	arfcn	ARFCN_637
	ext_bcch	NOT_USED
	comb_ccch	COMB_CCCH_COMB
	tn	TN_0
	dlt	DLT_10
	pg	PG_20
	bs_ag_blocks_res	BS_AG_BLKS_RES_3
	bs_pa_mfrms	BS_PA_MFRMS_6
	power	POWER_12
	ncc_permitted	NOT_PRESENT_8BIT
	reorg_only	NOT_USED
(3) MPHC_STOP_SCELL_BCCH_REQ		
	param	NOT_USED
(4) MPHC_START_CCCH_REQ		
	bs_pa_mfrms	BS_PA_MFRMS_8
	bs_ag_blks_res	BS_AG_BLKS_RES_3
	bcch_combined	COMB_CCCH_COMB
	ccch_group	CCCH_GROUP_0
	page_group	PG_20
	page_block_index	PBI_0
	page_mode	PGM_REORG
(5) MPHC_SCELL_NBCCH_REQ		
	schedule_array_size	SCHED_SIZE_1
	schedule_array	NOT_USED
(6) MPH_IDENTITY_REQ		
	mid	MS_ID_IMSI_TMSI
(7) MPH_CBCH_REQ		
	cbch	NO_CBCH

(8) MPH_NEIGHBOURCELL_REQ

	multi_band	MULTI_BAND_0
	arfcn	CHLIST_512_580_885_FFFF
		sync_only

NOT_USED

(9) MPHC_RXLEV_PERIODIC_REQ

	chan_list	CHLIST_637_512_580_885
		num_of_chans

CHANNELS_4

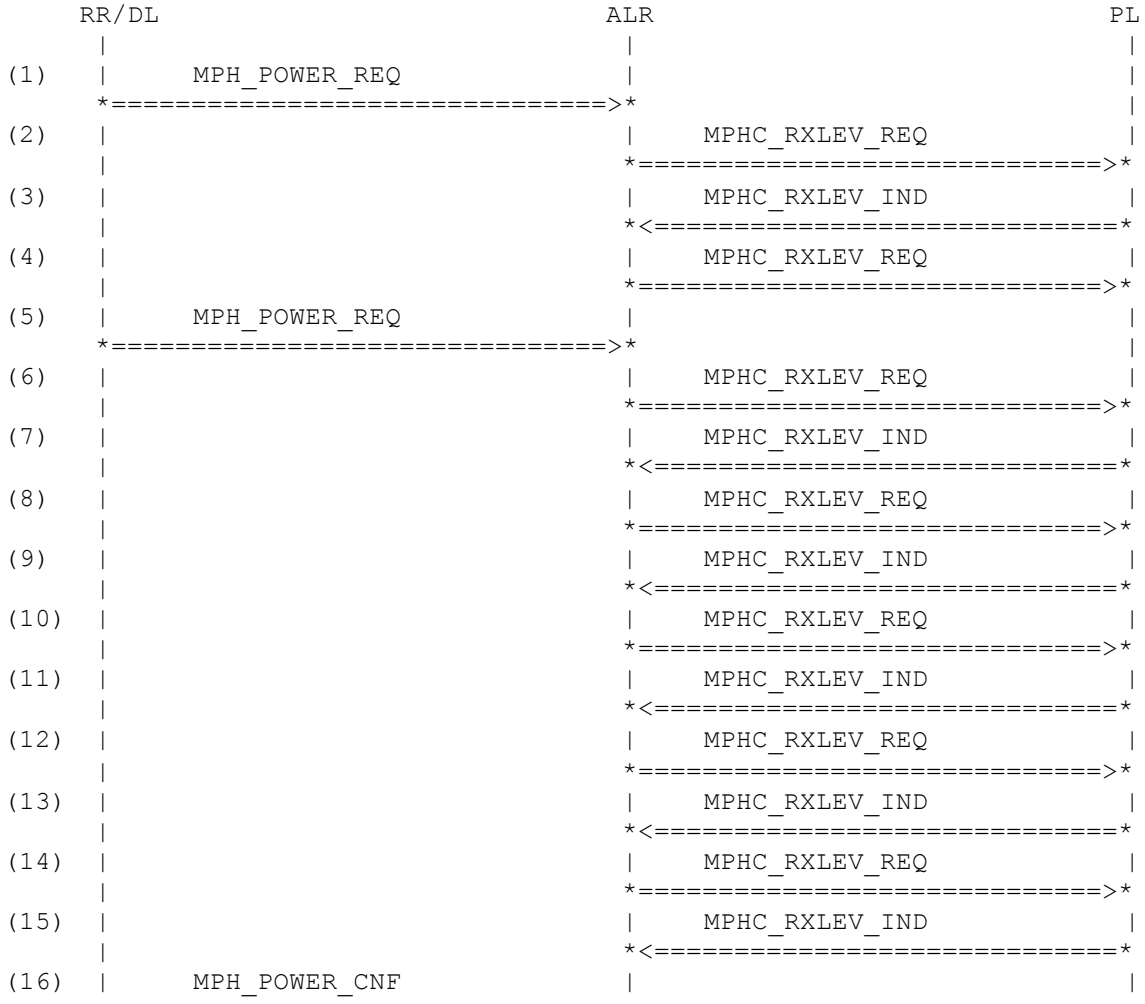
	ba_id	BA_ID_1
	next_radio_freq_measured	CHAN_LIST_IDX_0

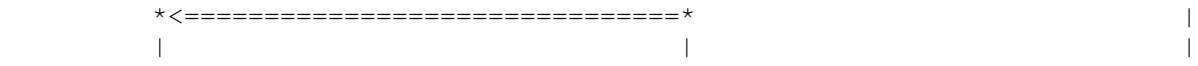
History:			
	23.09.99	MPA	Initial
	12.07.00	DG	MPH_CLASSMARK_REQ: class changed into classmark (Forum G23M / No 0057)
	20.07.01	MSB	channel list adapted
	07.02.02	LG	changed value of ba_id

4.4.14 ALR215: Re-Initiation of Cell Selection during measurements

Description: RR has started a cell selection. During power measurements a new activation of cell selection is started by RR. The power measurement is restarted.

Preamble: ALR200





Parametrization

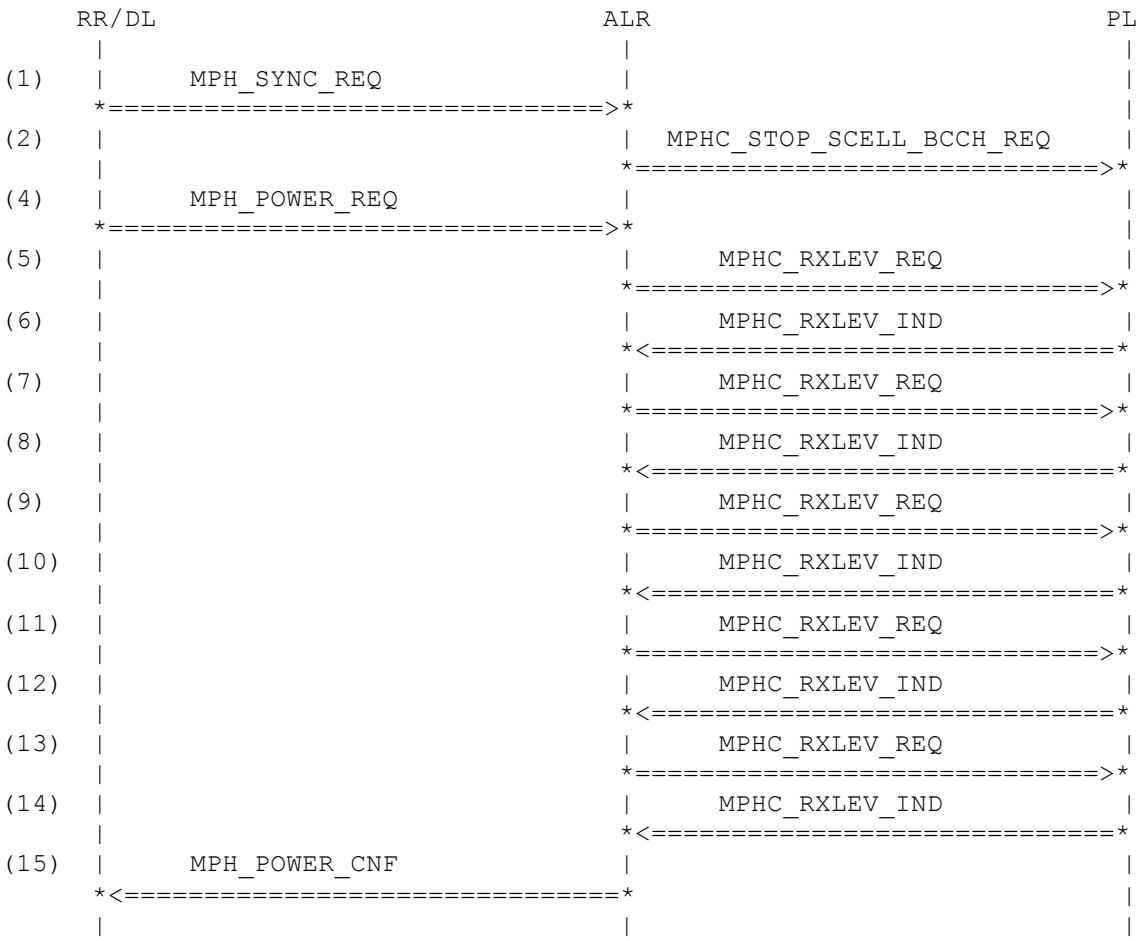
	Primitive	Parameter	Value
(1)	MPH_POWER_REQ		
		pch_interrupt	PCH_INTERRUPT
		freq_bands	NOT_USED
(2)	MPHC_RXLEV_REQ		
		shared_ptr	NOT_USED
(3)	MPHC_RXLEV_IND		
		shared_ptr	RXLEV_IDX_3_1800
(4)	MPHC_RXLEV_REQ		
		shared_ptr	NOT_USED
(5)	MPH_POWER_REQ		
		pch_interrupt	PCH_INTERRUPT
		freq_bands	NOT_USED
(6)	MPHC_RXLEV_REQ		
		shared_ptr	NOT_USED
(7)	MPHC_RXLEV_IND		
		shared_ptr	RXLEV_IDX_3_1800
(8)	MPHC_RXLEV_REQ		
		shared_ptr	NOT_USED
(9)	MPHC_RXLEV_IND		
		shared_ptr	RXLEV_IDX_3_1800
(10)	MPHC_RXLEV_REQ		
		shared_ptr	NOT_USED
(11)	MPHC_RXLEV_IND		
		shared_ptr	RXLEV_IDX_3_1800
(12)	MPHC_RXLEV_REQ		
		shared_ptr	NOT_USED
(13)	MPHC_RXLEV_IND		
		shared_ptr	RXLEV_IDX_3_1800
(14)	MPHC_RXLEV_REQ		
		shared_ptr	NOT_USED
(15)	MPHC_RXLEV_IND		
		shared_ptr	RXLEV_IDX_3_1800
(16)	MPH_POWER_CNF		
		num_of_chan	CHANNELS_4
		arfcn	ARFCN_637_580_885_512
		rx_lev	RXLEV_637_580_885_512

History: 23.09.99 MPA Initial

4.4.15 ALR217: Re-Initiation of Cell Selection during BCCH reading

Description: During BCCH reading RR restarts a cell selection. This leads to a new full power measurement cycle.

Preamble: ALR207



Parametrization

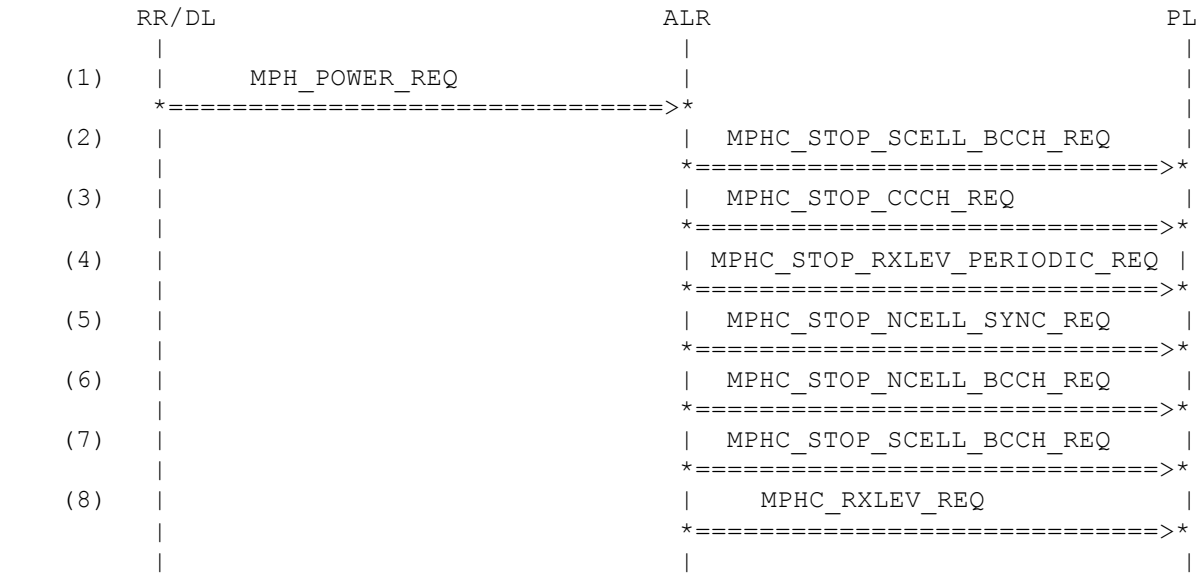
Primitive	Parameter	Value
(1) MPH_SYNC_REQ		
	cs	CS_STOP_BCCH_READING
(2) MPHC_STOP_SCELL_BCCH_REQ		
	param	NOT_USED
(3) MPH_POWER_REQ		
	pch_interrupt	PCH_INTERRUPT
	freq_bands	NOT_USED
(4) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(5) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_3_1800
(6) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(7) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_3_1800
(8) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(9) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_3_1800

(10) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(11) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_3_1800
(12) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(13) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_3_1800
(14) MPH_POWER_CNF		
	num_of_chan	CHANNELS_4
	arfcn	ARFCN_637_580_885_512
	rx_lev	RXLEV_637_580_885_512

History: 23.09.99 MPA Initial

4.4.16 ALR244: Stop Idle Mode by Normal Cell Selection

Description: The idle mode is stopped if a normal cell selection is initiated.
Preamble: ALR213



Parametrization

Primitive	Parameter	Value
(1) MPH_POWER_REQ		
	pch_interrupt	PCH_INTERRUPT
	freq_bands	NOT_USED
(2) MPHC_STOP_SCELL_BCCH_REQ		
	param	NOT_USED
(3) MPHC_STOP_CCCH_REQ		
	param	NOT_USED
(4) MPHC_STOP_RXLEV_PERIODIC_REQ		
	param	NOT_USED

(5) MPHC_STOP_NCELL_SYNC_REQ

radio_freq_array_size	STOP_SIZE_0
radio_freq_array	NOT_USED

(6) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	STOP_SIZE_0
radio_freq_array	NOT_USED

(7) MPHC_STOP_SCELL_BCCH_REQ

param	NOT_USED

(8) MPHC_RXLEV_REQ

shared_ptr	NOT_USED

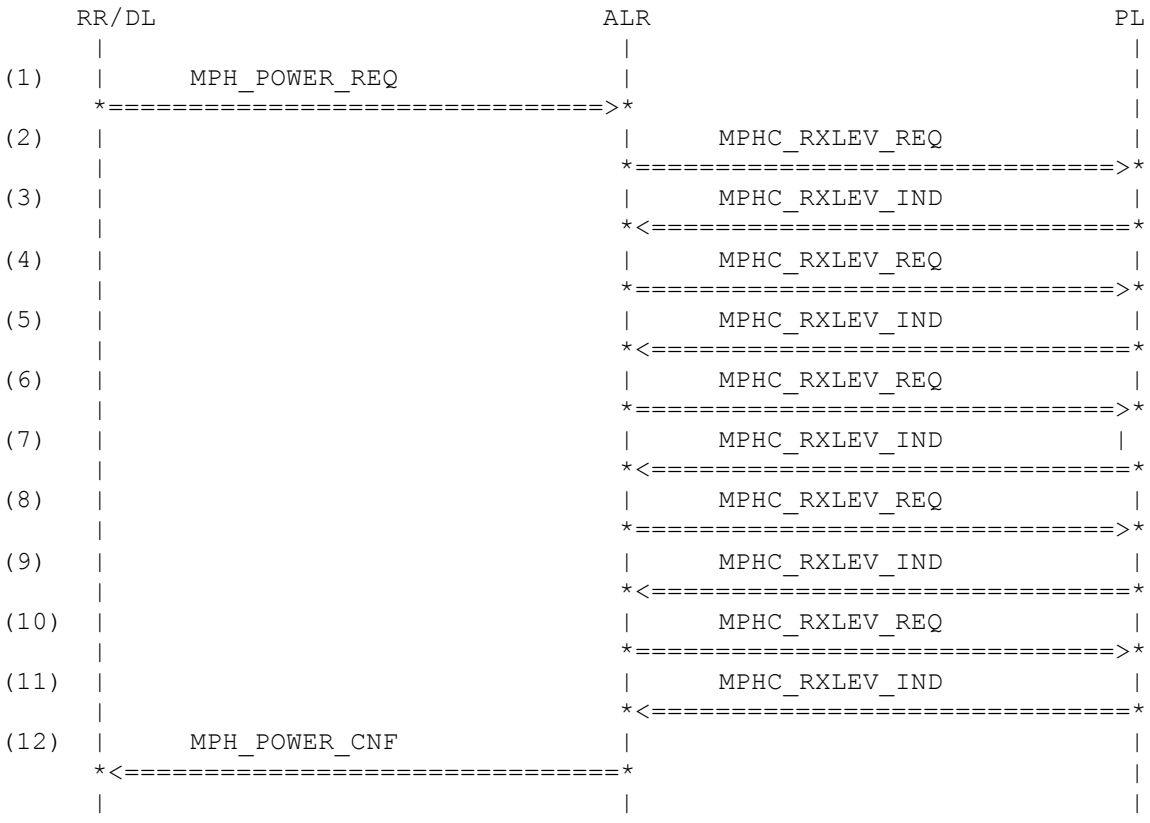
History: 23.09.99 MPA Initial

4.5 Cell Selection (Dualband GSM 900 / DCS 1800)

4.5.1 ALR601: Initiation by RR, 8 channels available

Description: RR starts a cell selection. Eight channels in the order 23, 637, 14, 580, 124, 885, 1, 512 have acceptable fieldstrength values.

Preamble: ALR600



Parametrization

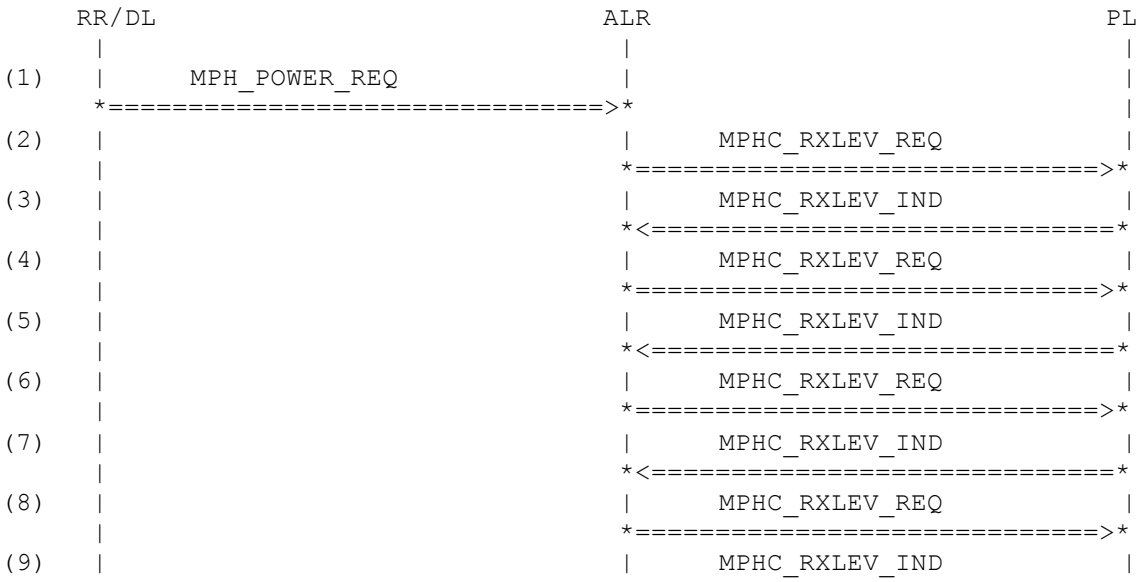
Primitive	Parameter	Value
(1) MPH_POWER_REQ		
	pch_interrupt	PCH_INTERRUPT
	freq_bands	NOT_USED

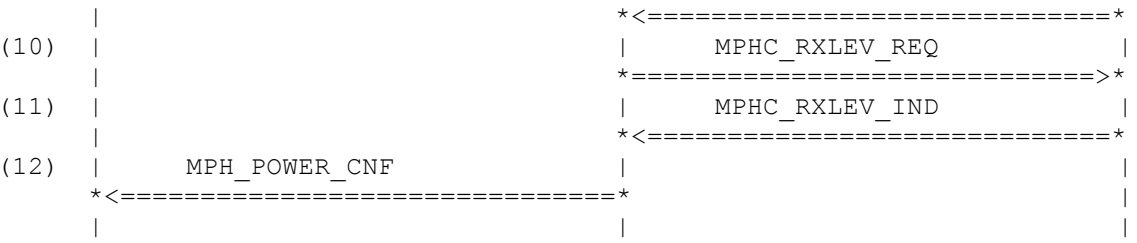
(2) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(3) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_DUAL
(4) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(5) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_DUAL
(6) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(7) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_DUAL
(8) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(9) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_DUAL
(10) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(11) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_DUAL
(12) MPH_POWER_CNF		
	num_of_chan	CHANNELS_8
	arfcn	ARFCN_DUAL
	rx_lev	RXLEV_DUAL

History: 24.01.00 MPA Initial

4.5.2 ALR602: Initiation by RR, no channels available

Description: RR starts a cell selection. No channel is available.
Preamble: ALR600





Parametrization

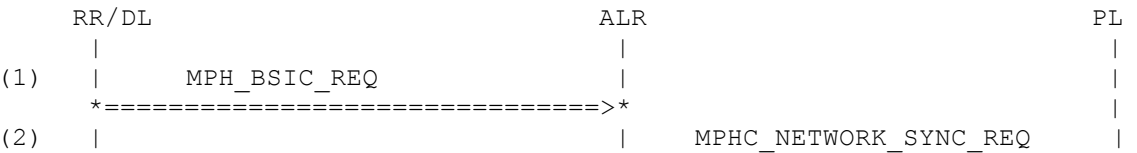
Primitive	Parameter	Value
(1) MPH_POWER_REQ		
	pch_interrupt	PCH_INTERRUPT
	freq_bands	NOT_USED
(2) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(3) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_2_DUAL
(4) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(5) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_2_DUAL
(6) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(7) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_2_DUAL
(8) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(9) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_2_DUAL
(10) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(11) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_2_DUAL
(12) MPH_POWER_CNF		
	num_of_chan	CHANNELS_0
	arfcn	NOT_USED
	rx_lev	NOT_USED

History: 24.01.00 MPA Initial

4.5.3 ALR603: Find BCCH carrier, first channel

Description: The carrier with the highest fieldstrength (channel 23) is selected for synchronizing to frequency correction burst and synchron burst.

Preamble: ALR601



Parametrization

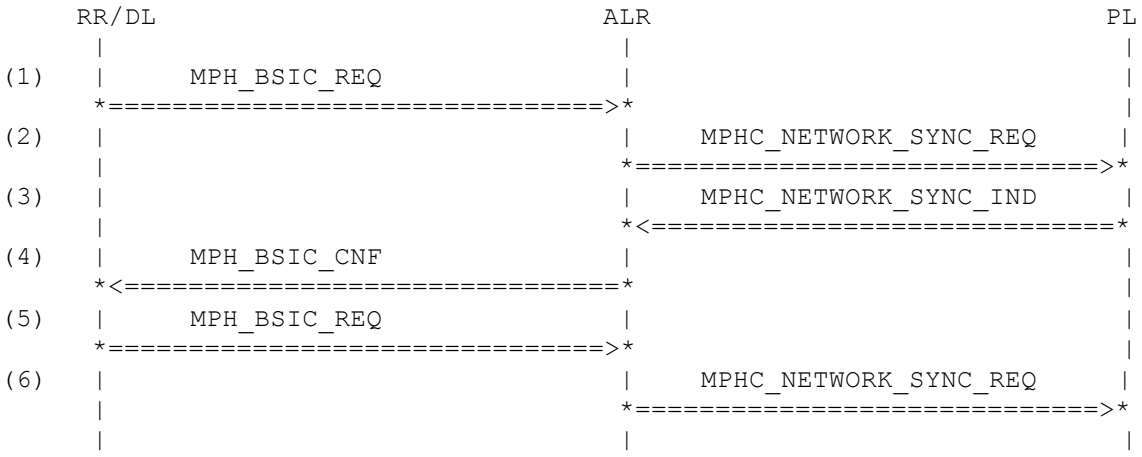
Primitive	Parameter	Value
(1) MPH_BSIC_REQ		
	arfcn	ARFCN_23
(2) MPHC_NETWORK_SYNC_REQ		
	radio_freq	ARFCN_23
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
	search_mode	SM_WIDE_MODE
(3) MPHC_NETWORK_SYNC_IND		
	radio_freq	ARFCN_23
	sb_flag	SB_FOUND
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	bsic	BSIC_1
(4) MPH_BSIC_CNF		
	arfcn	ARFCN_23
	bsic	BSIC_1
	cs	CS_NO_ERROR
(5) MPHC_NEW_SCELL_REQ		
	radio_freq	ARFCN_23
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	tsc	BSIC_1
(6) MPHC_NEW_SCELL_CON		
	param	NOT_USED
(7) MPHC_SCELL_NBCCH_REQ		
	schedule_array_size	SCHED_SIZE_1
	schedule_array	FULL_READ

History:	24.01.00	MPA	Initial

4.5.4 ALR604: Find BCCH carrier, first channel failed, then second channel

Description: The carrier with the highest fieldstrength (channel 23) is selected for synchronizing to frequency correction burst and synchron burst. The attempt failed. A second request is started for the next strongest channel (channel 637).

Preamble: ALR601



Parametrization

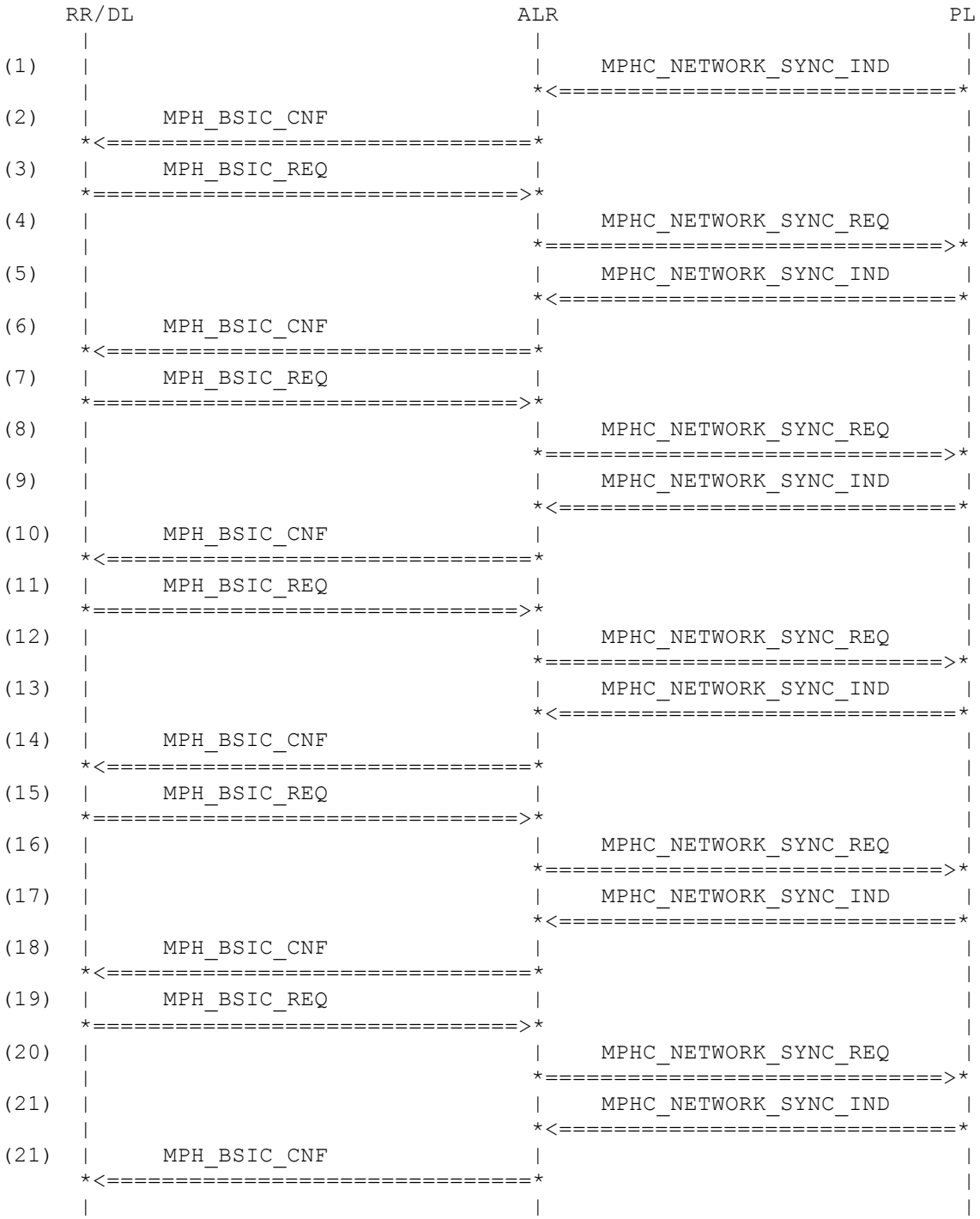
Primitive	Parameter	Value
(1) MPH_BSIC_REQ		
	arfcn	ARFCN_23
(2) MPHC_NETWORK_SYNC_REQ		
	radio_freq	ARFCN_23
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
	search_mode	SM_WIDE_MODE
(3) MPHC_NETWORK_SYNC_IND		
	radio_freq	ARFCN_23
	sb_flag	NO_SB_FOUND
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	bsic	BSIC_1
(4) MPH_BSIC_CNF		
	arfcn	ARFCN_23
	bsic	NOT_USED
	cs	CS_NO_BCCH_AVAIL
(5) MPH_BSIC_REQ		
	arfcn	ARFCN_637
(6) MPHC_NETWORK_SYNC_REQ		
	radio_freq	ARFCN_637
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
	search_mode	SM_WIDE_MODE

History: 24.01.00 MPA Initial

4.5.5 ALR605: Find BCCH carrier, all channels failed, then error indication

Description: All synchronization attempts to the available channels are failed. RR is informed by an error indication with the cause no BCCH available.

Preamble: ALR604



Parametrization

Primitive	Parameter	Value
(1) MPHC_NETWORK_SYNC_IND		
	radio_freq	ARFCN_637
	sb_flag	NO_SB_FOUND
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	bsic	BSIC_0
(2) MPH_BSIC_CNF		
	arfcn	ARFCN_637

	bsic	NOT_USED
	cs	CS_NO_BCCH_AVAIL
(3) MPH_BSIC_REQ		
	arfcn	ARFCN_14
(4) MPHC_NETWORK_SYNC_REQ		
	radio_freq	ARFCN_14
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
	search_mode	SM_WIDE_MODE
(5) MPHC_NETWORK_SYNC_IND		
	radio_freq	ARFCN_14
	sb_flag	NO_SB_FOUND
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	bsic	BSIC_0
(6) MPH_BSIC_CNF		
	arfcn	ARFCN_14
	bsic	NOT_USED
	cs	CS_NO_BCCH_AVAIL
(7) MPH_BSIC_REQ		
	arfcn	ARFCN_580
(8) MPHC_NETWORK_SYNC_REQ		
	radio_freq	ARFCN_580
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
	search_mode	SM_WIDE_MODE
(9) MPHC_NETWORK_SYNC_IND		
	radio_freq	ARFCN_580
	sb_flag	NO_SB_FOUND
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	bsic	BSIC_0
(10) MPH_BSIC_CNF		
	arfcn	ARFCN_580
	bsic	NOT_USED
	cs	CS_NO_BCCH_AVAIL
(11) MPH_BSIC_REQ		
	arfcn	ARFCN_124
(12) MPHC_NETWORK_SYNC_REQ		
	radio_freq	ARFCN_124
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
	search_mode	SM_WIDE_MODE
(13) MPHC_NETWORK_SYNC_IND		
	radio_freq	ARFCN_124
	sb_flag	NO_SB_FOUND

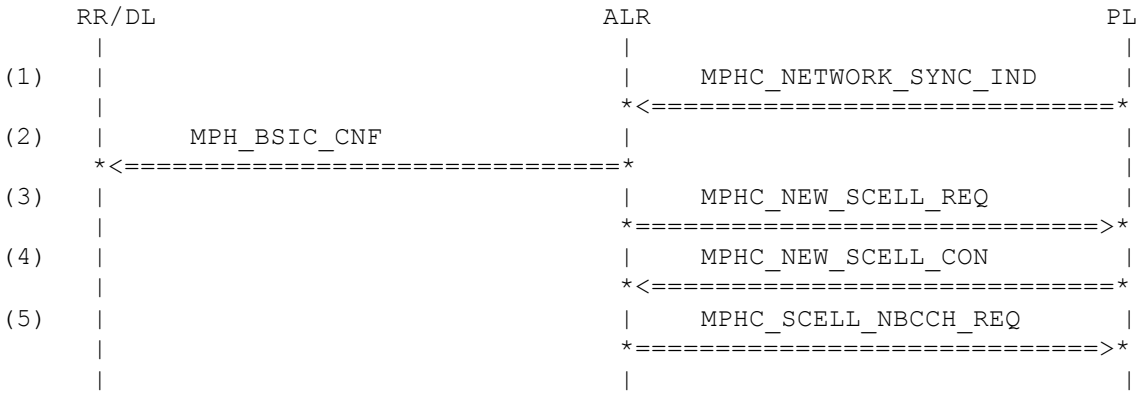
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	bsic	BSIC_0
(14) MPH_BSIC_CNF		
	arfcn	ARFCN_124
	bsic	NOT_USED
	cs	CS_NO_BCCH_AVAIL
(15) MPH_BSIC_REQ		
	arfcn	ARFCN_885
(16) MPHC_NETWORK_SYNC_REQ		
	radio_freq	ARFCN_885
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
	search_mode	SM_WIDE_MODE
(17) MPHC_NETWORK_SYNC_IND		
	radio_freq	ARFCN_885
	sb_flag	NO_SB_FOUND
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	bsic	BSIC_0
(18) MPH_BSIC_CNF		
	arfcn	ARFCN_885
	bsic	NOT_USED
	cs	CS_NO_BCCH_AVAIL
(19) MPH_BSIC_REQ		
	arfcn	ARFCN_512
(20) MPHC_NETWORK_SYNC_REQ		
	radio_freq	ARFCN_512
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
	search_mode	SM_WIDE_MODE
(21) MPHC_NETWORK_SYNC_IND		
	radio_freq	ARFCN_512
	sb_flag	NO_SB_FOUND
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	bsic	BSIC_0
(22) MPH_BSIC_CNF		
	arfcn	ARFCN_512
	bsic	NOT_USED
	cs	CS_NO_BCCH_AVAIL

History: 24.01.00 MPA Initial

4.5.6 ALR606: Find BCCH carrier, second channel

Description: The next best channel (channel 637) is selected for synchronizing to frequency correction burst and synchron burst.

Preamble: ALR604



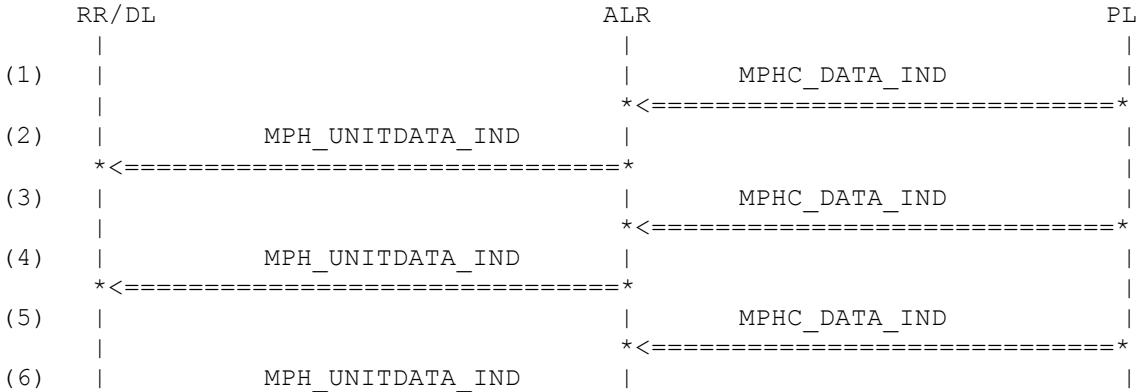
Parametrization

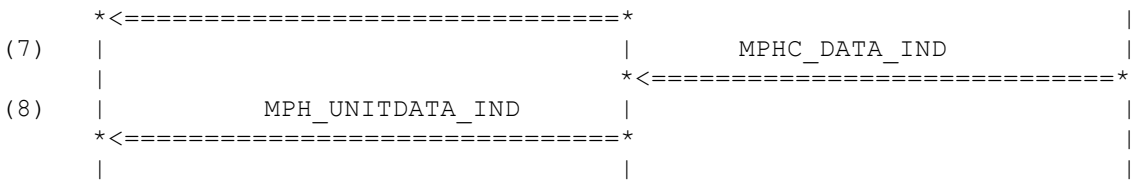
Primitive	Parameter	Value
(1) MPHC_NETWORK_SYNC_IND		
	radio_freq	ARFCN_637
	sb_flag	SB_FOUND
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	bsic	BSIC_0
(2) MPH_BSIC_CNF		
	arfcn	ARFCN_637
	bsic	BSIC_0
	cs	CS_NO_ERROR
(3) MPHC_NEW_SCELL_REQ		
	radio_freq	ARFCN_637
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	tsc	BSIC_0
(4) MPHC_NEW_SCELL_CON		
	param	NOT_USED
(5) MPHC_SCELL_NBCCH_REQ		
	schedule_array_size	SCHED_SIZE_1
	schedule_array	FULL_READ

History: 24.01.00 MPA Initial

4.5.7 ALR607: Read BCCH data

Description: The BCCH data blocks are read for the channel 23.
Preamble: ALR603





Parametrization

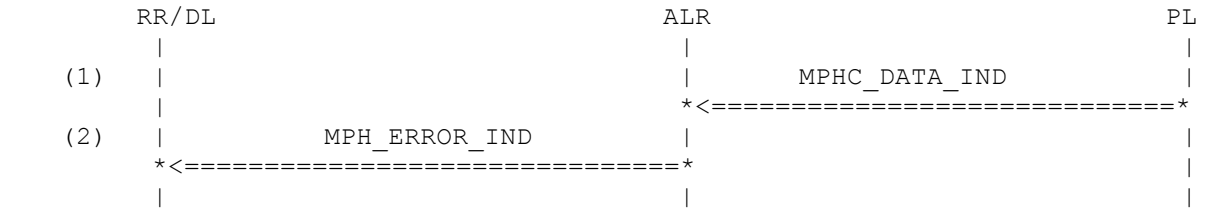
Primitive	Parameter	Value
(1) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_1
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(2) MPH_UNITDATA_IND		
	arfcn	ARFCN_23
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_1
	ti	TI_0
	cell_chan_desc	CELL_CHAN_DESC_1
	rach_ctrl	RACH_CTRL_1
	}	
(3) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_2
	tc	TC_1
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(4) MPH_UNITDATA_IND		
	arfcn	ARFCN_23
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_2
	ti	TI_0
	neigh_cell_desc	NEIGH_CELL_DESC_1
	ncc_permit	NCC_PERMIT_1
	rach_ctrl	RACH_CTRL_1
	}	
(5) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_3

	tc	TC_2
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(6) MPH_UNITDATA_IND		
	arfcn	ARFCN_23
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_3
	ti	TI_0
	cell_ident	CELL_IDENT_1
	loc_area_ident	LOC_AREA_IDENT_1
	ctrl_chan_desc	CTRL_CHAN_DESC_1
	cell_opt_bcch	CELL_OPT_BCCH_1
	cell_select	CELL_SELECT_1
	rach_ctrl	RACH_CTRL_1
	}	
(7) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_4
	tc	TC_3
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(8) MPH_UNITDATA_IND		
	arfcn	ARFCN_23
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_4
	ti	TI_0
	loc_area_ident	LOC_AREA_IDENT_1
	cell_select	CELL_SELECT_1
	rach_ctrl	RACH_CTRL_1
	}	

History:	24.01.00	MPA	Initial

4.5.8 ALR608: Read failed BCCH data

Description: A failed BCCH data block is read.
Preamble: ALR607



Parametrization

Primitive	Parameter	Value

(1) MPHC_DATA_IND

radio_freq	ARFCN_23
l2_channel	L2_CHANNEL_NBCCH
error_flag	INVALID_BLOCK
l2_frame	L2_NO_CONTENT
tc	TC_3
ccch_lev	NOT_USED
fn	FN_OFFSET_0

(2) MPH_ERROR_IND

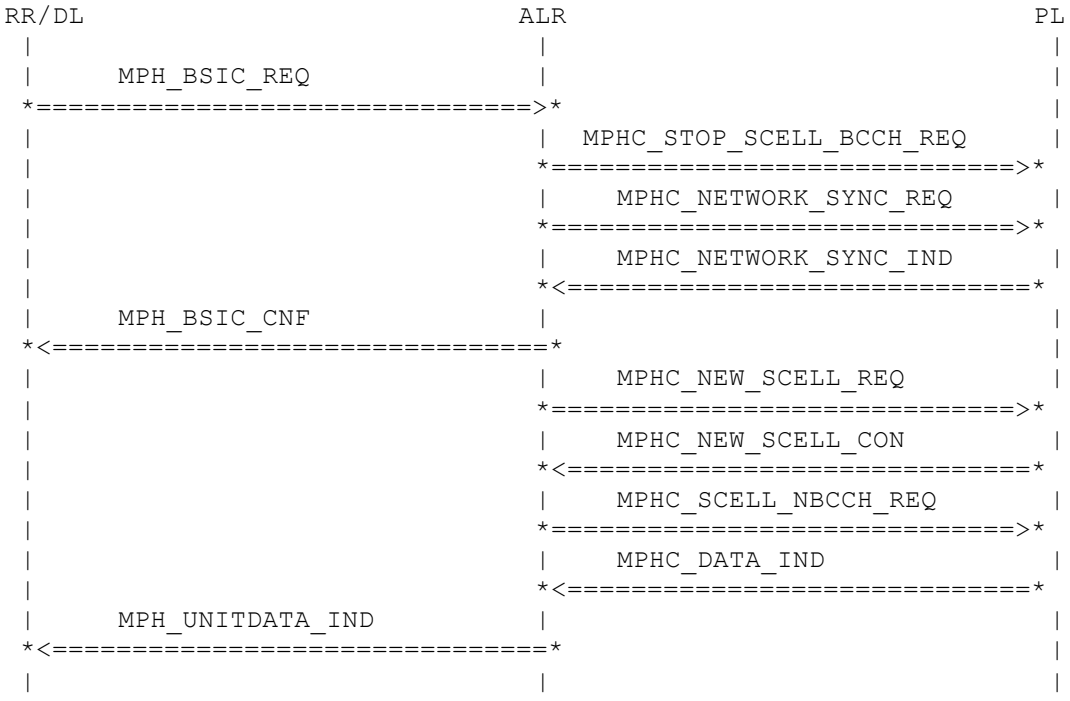
cs	CS_BCCH_READ_ERROR
arfcn	ARFCN_23

History: 22.01.00 MPA Initial

4.5.9 ALR609: RR rejects BCCH carrier, try third channel

Description: RR rejects the BCCH carrier. The next best channel (channel 14) is selected for synchronizing to frequency correction burst and synchron burst.

Preamble: ALR606



Parametrization

Primitive	Parameter	Value
(1) MPH_BSIC_REQ		
	arfcn	ARFCN_14
(2) MPHC_STOP_SCELL_BCCH_REQ		
	param	NOT_USED
(3) MPHC_NETWORK_SYNC_REQ		
	radio_freq	ARFCN_14
	fn_offset	NOT_USED
	time_alignment	NOT_USED

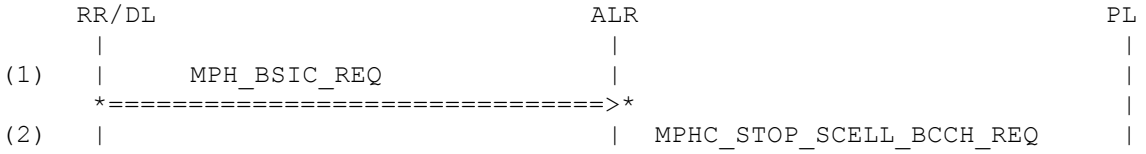
	timing_validity	TV_INVALID_TIMING_INFO
	search_mode	SM_WIDE_MODE
(4) MPHC_NETWORK_SYNC_IND		
	radio_freq	ARFCN_14
	sb_flag	SB_FOUND
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	bsic	BSIC_0
(5) MPH_BSIC_CNF		
	arfcn	ARFCN_14
	bsic	BSIC_0
	cs	CS_NO_ERROR
(6) MPHC_NEW_SCELL_REQ		
	radio_freq	ARFCN_14
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	tsc	BSIC_0
(7) MPHC_NEW_SCELL_CON		
	param	NOT_USED
(8) MPHC_SCELL_NBCCH_REQ		
	schedule_array_size	SCHED_SIZE_1
	schedule_array	FULL_READ
(9) MPHC_DATA_IND		
	radio_freq	ARFCN_14
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_1
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(10) MPH_UNITDATA_IND		
	arfcn	ARFCN_14
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_1
	ti	TI_0
	cell_chan_desc	CELL_CHAN_DESC_1
	rach_ctrl	RACH_CTRL_1
	}	

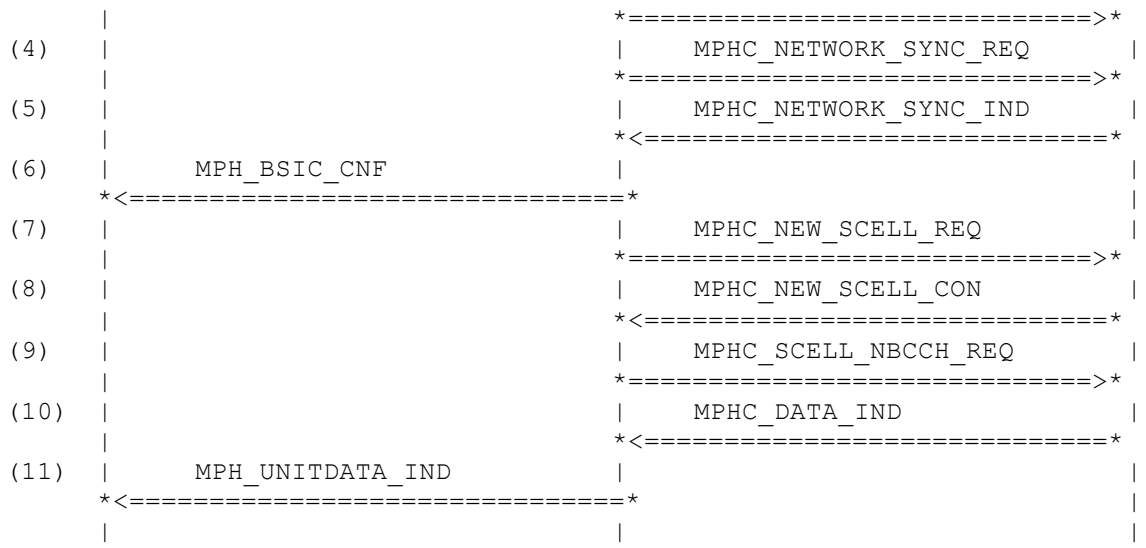
History: 24.01.00 MPA Initial

4.5.10 ALR610: RR rejects BCCH carrier, try fourth channel

Description: RR rejects the BCCH carrier. The next best channel (channel 580) is selected for synchronizing to frequency correction burst and synchron burst.

Preamble: ALR609





Parametrization

Primitive	Parameter	Value
(1) MPH_BSIC_REQ		
	arfcn	ARFCN_580
(2) MPHC_STOP_SCELL_BCCH_REQ		
	param	NOT_USED
(3) MPHC_NETWORK_SYNC_REQ		
	radio_freq	ARFCN_580
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
	search_mode	SM_WIDE_MODE
(4) MPHC_NETWORK_SYNC_IND		
	radio_freq	ARFCN_580
	sb_flag	SB_FOUND
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	bsic	BSIC_0
(5) MPH_BSIC_CNF		
	arfcn	ARFCN_580
	bsic	BSIC_0
	cs	CS_NO_ERROR
(6) MPHC_NEW_SCELL_REQ		
	radio_freq	ARFCN_580
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	tsc	BSIC_0
(7) MPHC_NEW_SCELL_CON		
	param	NOT_USED
(8) MPHC_SCELL_NBCCH_REQ		
	schedule_array_size	SCHED_SIZE_1
	schedule_array	NOT_USED

(9) MPHC_DATA_IND

radio_freq	ARFCN_580
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_1
tc	TC_0
ccch_lev	NOT_USED
fn	FN_OFFSET_0

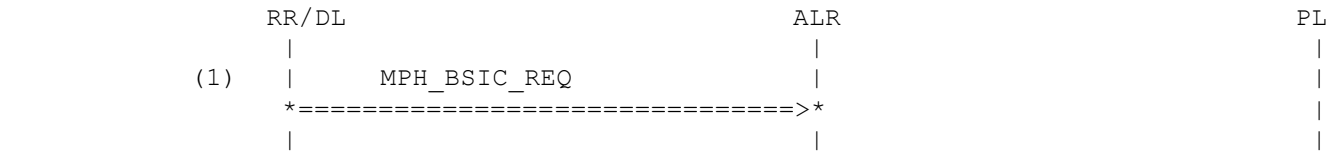
(10) MPH_UNITDATA_IND

arfcn	ARFCN_580
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_1
ti	TI_0
cell_chan_desc	CELL_CHAN_DESC_1
rach_ctrl	RACH_CTRL_1
}	

History:	24.01.00	MPA	Initial

4.5.11 ALR611: RR rejects BCCH carrier, no further channel available

Description: RR rejects the BCCH carrier. No further channel is available.
Preamble: ALR610



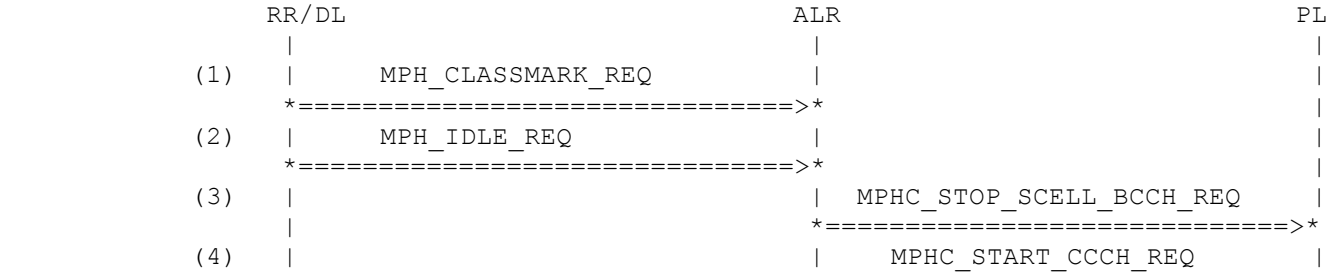
Parametrization

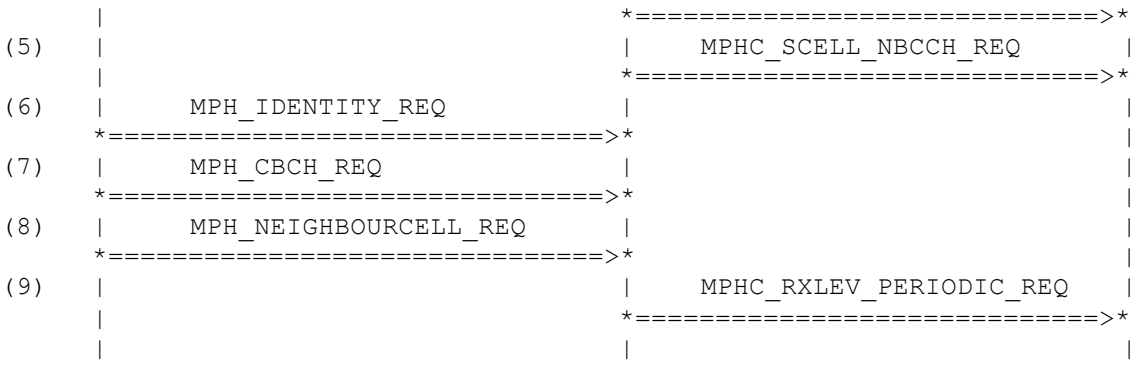
Primitive	Parameter	Value
(1) MPH_BSIC_REQ		
	arfcn	NOT_PRESENT_16BIT

History:	24.01.00	MPA	Initial

4.5.12 ALR612: RR select second channel

Description: RR selects the channel 637 after reading the BCCH carrier.
Variant A: with neighbourcell list
Variant B: with empty neighbour cell list
Preamble: ALR606
Variants: <A> .. <B>





Parametrization

Primitive	Parameter	Value
(1) MPH_CLASSMARK_REQ		
	classmark	CLASS_DUAL
(2) MPH_IDLE_REQ		
	mod	MODE_CELL_SELECTION
	arfcn	ARFCN_637
	ext_bcch	NOT_USED
	comb_ccch	COMB_CCCH_NOT_COMB
	tn	TN_0
	dlt	DLT_10
	pg	PG_20
	bs_ag_blocks_res	BS_AG_BLKS_RES_3
	bs_pa_mfrms	BS_PA_MFRMS_6
	power	POWER_12
	ncc_permitted	NOT_PRESENT_8BIT
	reorg_only	NOT_USED
(3) MPHC_STOP_SCELL_BCCH_REQ		
	param	NOT_USED
(4) MPHC_START_CCCH_REQ		
	bs_pa_mfrms	BS_PA_MFRMS_8
	bs_ag_blks_res	BS_AG_BLKS_RES_3
	bcch_combined	COMB_CCCH_NOT_COMB
	ccch_group	CCCH_GROUP_0
	page_group	PG_20
	page_block_index	PBI_2
	page_mode	PGM_REORG
(5) MPHC_SCELL_NBCCH_REQ		
	schedule_array_size	SCHED_SIZE_1
	schedule_array	NOT_USED
(6) MPH_IDENTITY_REQ		
	mid	MS_ID_IMSI_TMSI
(7) MPH_CBCH_REQ		
	cbch	NO_CBCH
(8) MPH_NEIGHBOURCELL_REQ		
	multi_band	MULTI_BAND_1
<A>	arfcn	CHLIST_1_14_23_124_512_580_885_FFFF
<B>	arfcn	EMPTY_NCELL_LIST

	sync_only	NOT_USED

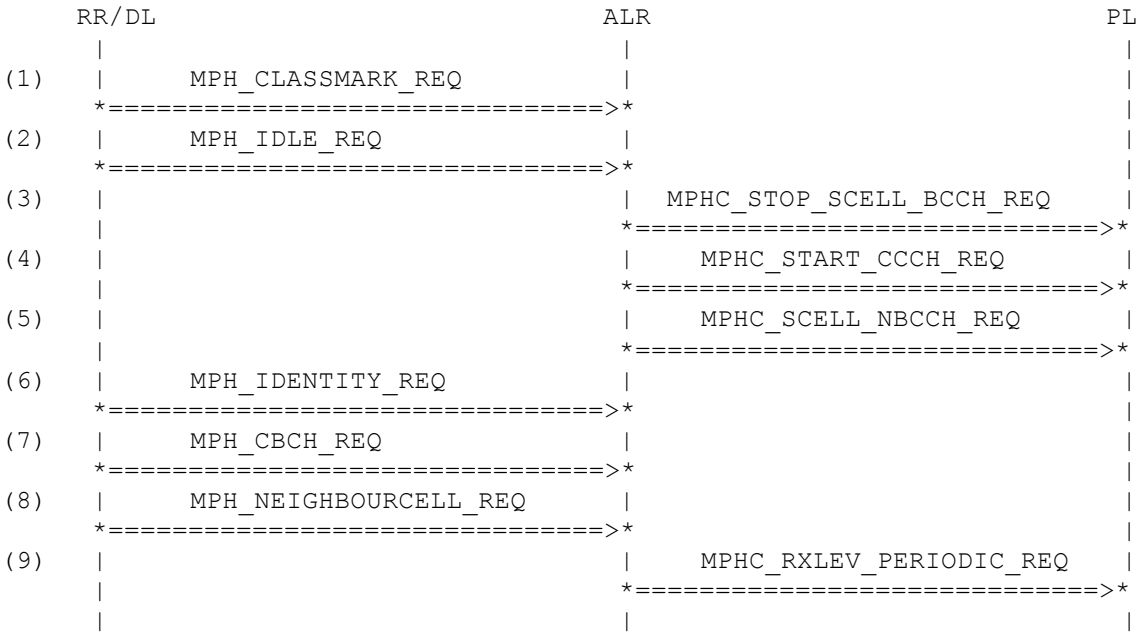
(9) MPHC_RXLEV_PERIODIC_REQ

<A>	chan_list	CHLIST_637_1_14_23_124_512_580_885
<B>	chan_list	CHLIST_637
<A>	num_of_chans	CHANNELS_8
<B>	num_of_chans	CHANNELS_1
	ba_id	BA_ID_1
	next_radio_freq_measured	CHAN_LIST_IDX_0

History:			
	24.01.00	MPA	Initial
	12.07.00	DG	MPH_CLASSMARK_REQ: class changed into classmark (Forum G23M / No 0057)
	20.07.01	MSB	channel list adapted
	07.02.02	LG	changed value of ba_id

4.5.13 ALR613: RR select first channel

Description: RR selects the channel 23 after reading the BCCH carrier.
Preamble: ALR603



Parametrization

Primitive	Parameter	Value
(1) MPH_CLASSMARK_REQ		
	classmark	CLASS_DUAL
(2) MPH_IDLE_REQ		
	mod	MODE_CELL_SELECTION
	arfcn	ARFCN_23
	ext_bcch	NOT_USED
	comb_ccch	COMB_CCCH_NOT_COMB
	tn	TN_0
	dlt	DLT_10
	pg	PG_20
	bs_ag_blocks_res	BS_AG_BLKS_RES_3

	bs_pa_mfrms	BS_PA_MFRMS_6
	power	POWER_12
	ncc_permitted	NOT_PRESENT_8BIT
	reorg_only	NOT_USED

(3) MPHC_STOP_SCELL_BCCH_REQ

	param	NOT_USED

(4) MPHC_START_CCCH_REQ

	bs_pa_mfrms	BS_PA_MFRMS_8
	bs_ag_blks_res	BS_AG_BLKS_RES_3
	bcch_combined	COMB_CCCH_NOT_COMB
	ccch_group	CCCH_GROUP_0
	page_group	PG_20
	page_block_index	PBI_2
	page_mode	PGM_REORG

(5) MPHC_SCELL_NBCCH_REQ

	schedule_array_size	SCHED_SIZE_1
	schedule_array	NOT_USED

(6) MPH_IDENTITY_REQ

	mid	MS_ID_IMSI_TMSI

(7) MPH_CBCH_REQ

	cbch	NO_CBCH

(8) MPH_NEIGHBOURCELL_REQ

	multi_band	MULTI_BAND_2
	arfcn	
CHLIST_1_14_124_512_580_637_885_FFFF		sync_only
NOT_USED		

(9) MPHC_RXLEV_PERIODIC_REQ

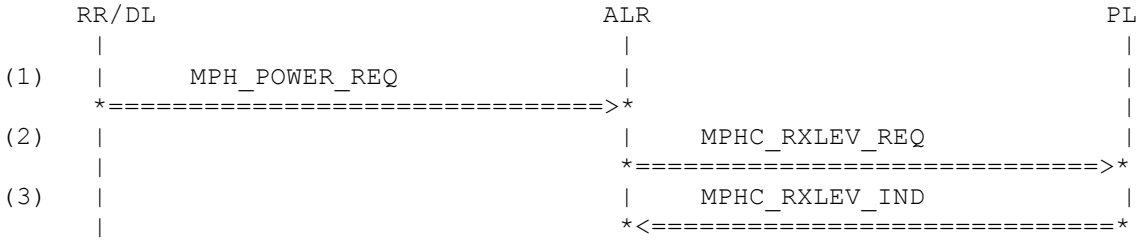
	chan_list	
CHLIST_23_1_14_124_512_580_637_885		num_of_chans
CHANNELS_8		
	ba_id	BA_ID_1
	next_radio_freq_measured	CHAN_LIST_IDX_0

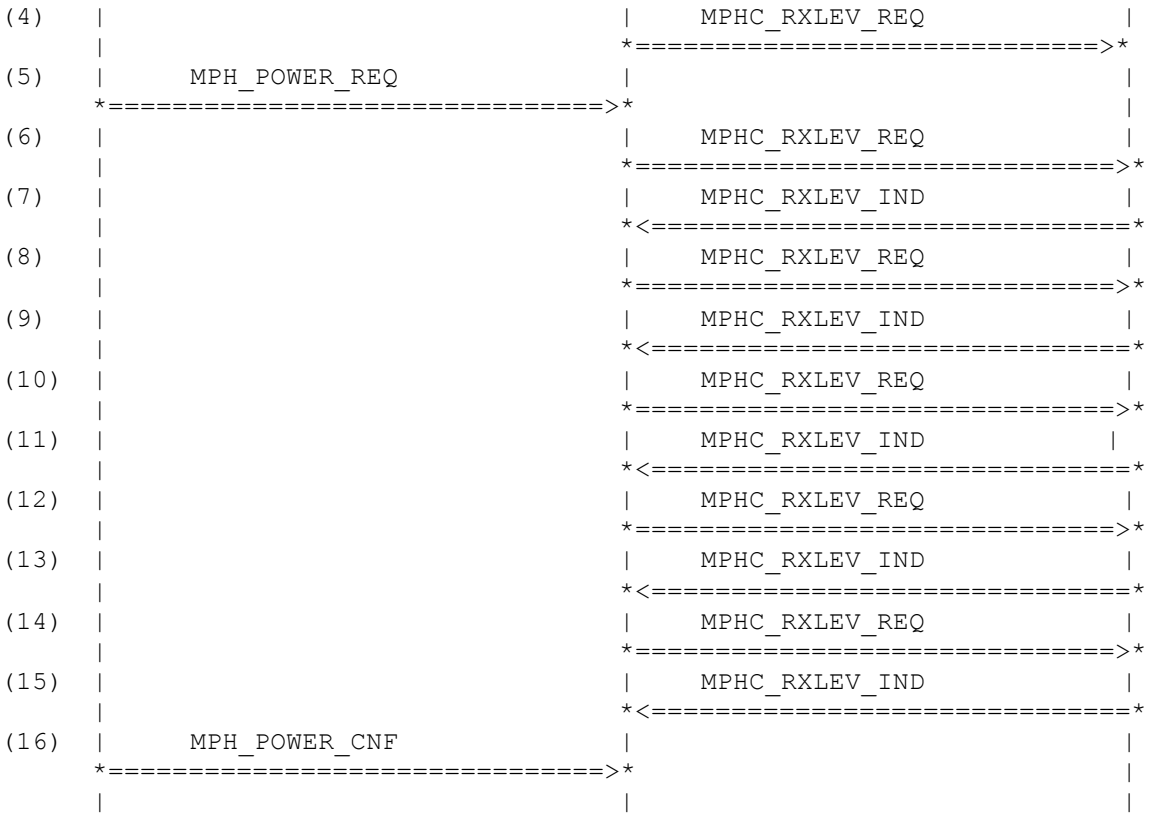
History:	24.01.00	MPA	Initial
	12.07.00	DG	MPH_CLASSMARK_REQ: class changed into classmark (Forum G23M / No 0057)
	20.07.01	MSB	channel list adapted
	07.02.02	LG	changed value of ba_id

4.5.14 ALR615: Re-Initiation of Cell Selection during measurements

Description: RR has started a cell selection. During power measurements a new activation of cell selection is started by RR. The power measurement is restarted.

Preamble: ALR600





Parametrization

Primitive	Parameter	Value
(1) MPH_POWER_REQ		
	pch_interrupt	PCH_INTERRUPT
	freq_bands	NOT_USED
(2) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(3) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_DUAL
(4) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(5) MPH_POWER_REQ		
	pch_interrupt	PCH_INTERRUPT
	freq_bands	NOT_USED
(6) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(7) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_DUAL
(8) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(9) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_DUAL
(10) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED

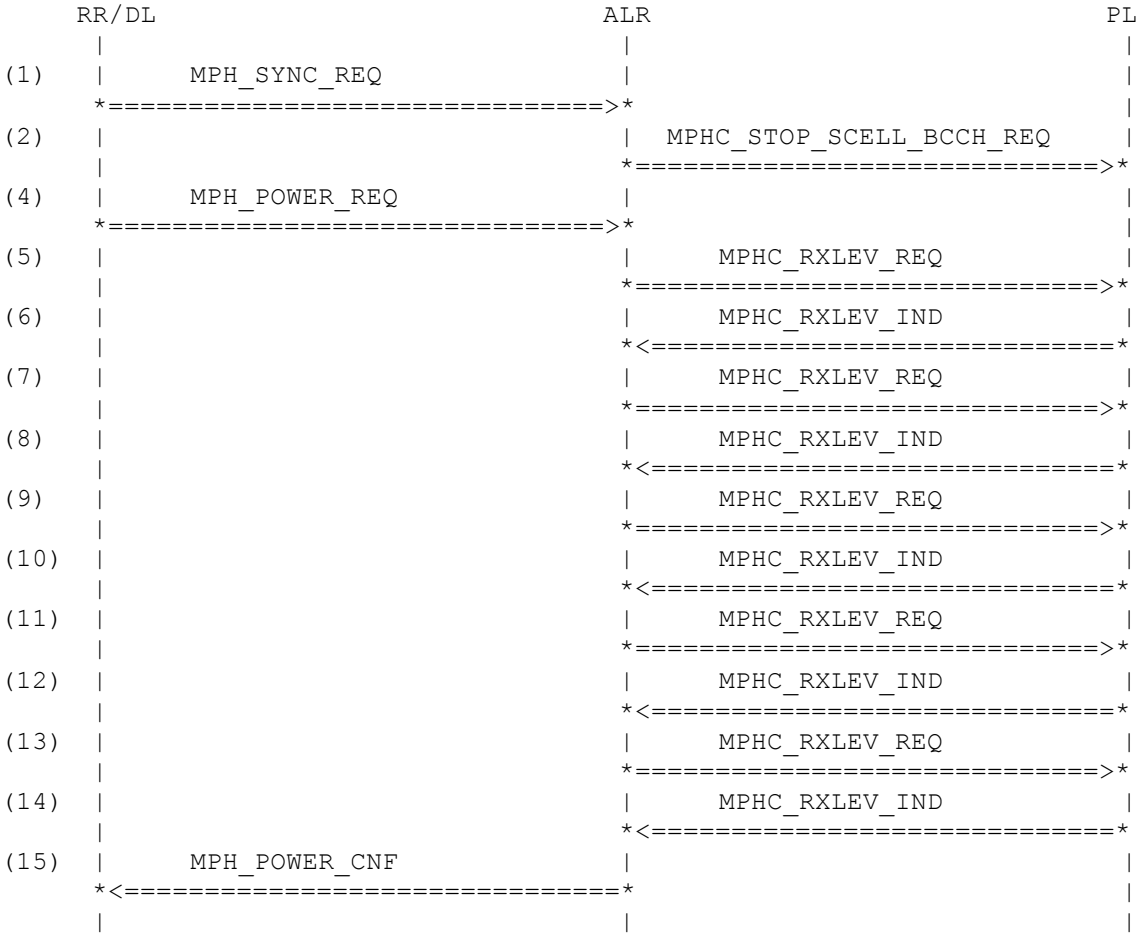
(11) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_DUAL
(12) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(13) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_DUAL
(14) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED
(15) MPHC_RXLEV_IND		
	shared_ptr	RXLEV_IDX_DUAL
(16) MPH_POWER_CNF		
	num_of_chan	CHANNELS_8
	arfcn	ARFCN_DUAL
	rx_lev	RXLEV_DUAL

History: 24.01.00 MPA Initial

4.5.15 ALR617: Re-Initiation of Cell Selection during BCCH reading

Description: During BCCH reading RR restarts a cell selection. This leads to a new full power measurement cycle.

Preamble: ALR607



Parametrization

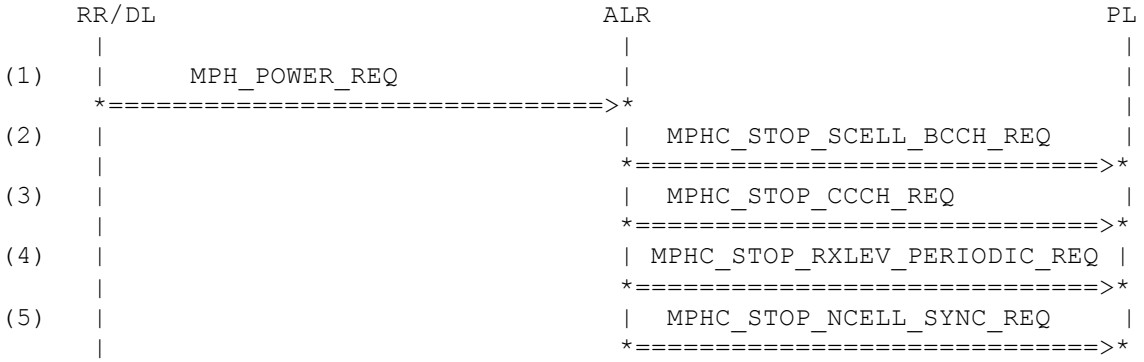
Primitive	Parameter	Value

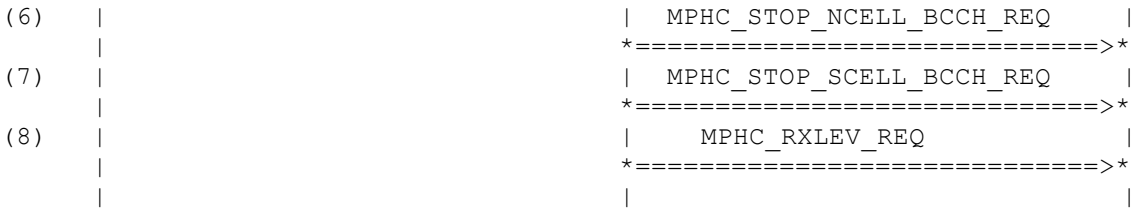
(1) MPH_SYNC_REQ	cs	CS_STOP_BCCH_READING
(2) MPHC_STOP_SCELL_BCCH_REQ	param	NOT_USED
(3) MPH_POWER_REQ	pch_interrupt freq_bands	PCH_INTERRUPT NOT_USED
(4) MPHC_RXLEV_REQ	shared_ptr	NOT_USED
(5) MPHC_RXLEV_IND	shared_ptr	RXLEV_IDX_DUAL
(6) MPHC_RXLEV_REQ	shared_ptr	NOT_USED
(7) MPHC_RXLEV_IND	shared_ptr	RXLEV_IDX_DUAL
(8) MPHC_RXLEV_REQ	shared_ptr	NOT_USED
(9) MPHC_RXLEV_IND	shared_ptr	RXLEV_IDX_DUAL
(10) MPHC_RXLEV_REQ	shared_ptr	NOT_USED
(11) MPHC_RXLEV_IND	shared_ptr	RXLEV_IDX_DUAL
(12) MPHC_RXLEV_REQ	shared_ptr	NOT_USED
(13) MPHC_RXLEV_IND	shared_ptr	RXLEV_IDX_DUAL
(14) MPH_POWER_CNF	num_of_chan arfcn rx_lev	CHANNELS_8 ARFCN_DUAL RXLEV_DUAL

History: 24.01.00 MPA Initial

4.5.16 ALR644: Stop Idle Mode by Normal Cell Selection

Description: The idle mode is stopped if a normal cell selection is initiated.
Preamble: ALR613





Parametrization

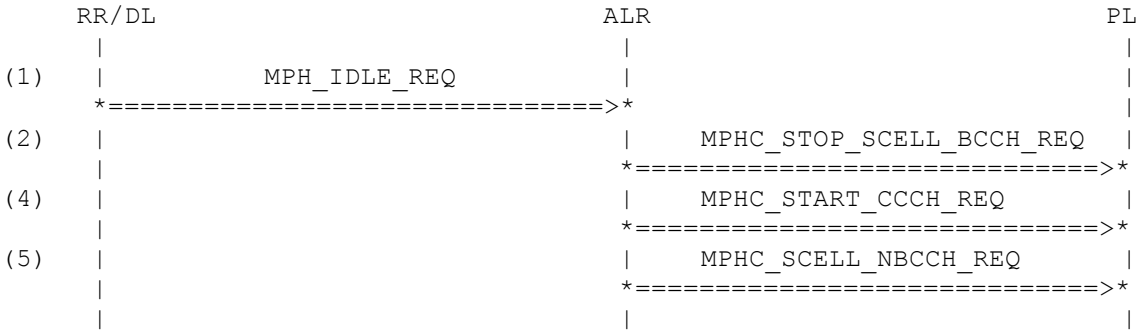
Primitive	Parameter	Value
(1) MPH_POWER_REQ		
	pch_interrupt	PCH_INTERRUPT
	freq_bands	NOT_USED
(2) MPHC_STOP_SCELL_BCCH_REQ		
	param	NOT_USED
(3) MPHC_STOP_CCCH_REQ		
	param	NOT_USED
(4) MPHC_STOP_RXLEV_PERIODIC_REQ		
	param	NOT_USED
(5) MPHC_STOP_NCELL_SYNC_REQ		
	radio_freq_array_size	STOP_SIZE_0
	radio_freq_array	NOT_USED
(6) MPHC_STOP_NCELL_BCCH_REQ		
	radio_freq_array_size	STOP_SIZE_0
	radio_freq_array	NOT_USED
(7) MPHC_STOP_SCELL_BCCH_REQ		
	param	NOT_USED
(8) MPHC_RXLEV_REQ		
	shared_ptr	NOT_USED

History:	24.01.00	MPA	Initial

4.6 Page Mode Change

4.6.1 ALR020: Initiation with Paging Reorganisation

Description: The idle mode is configured by RR. Layer 1 is configured with MPHC_START_CCCH_REQ.
Preamble: ALR007
Variants: <A>..<B>



Parametrization

	Primitive	Parameter	Value
(1) MPH_IDLE_REQ			
		mod	MODE_CELL_SELECTION
		arfcn	ARFCN_23
		ext_bcch	NOT_USED
		comb_ccch	COMB_CCCH_COMB
<A>		tn	TN_0
<B>		tn	TN_4
		dlt	DLT_24
		pg	PG_23
		bs_ag_blocks_res	BS_AG_BLKS_RES_2
		bs_pa_mfrms	BS_PA_MFRMS_5
		power	POWER_12
		ncc_permitted	NOT_PRESENT_8BIT
		reorg_only	NOT_USED
(2) MPHC_STOP_SCELL_BCCH_REQ			
		param	NOT_USED
(3) MPHC_START_CCCH_REQ			
		bs_pa_mfrms	BS_PA_MFRMS_7
		bs_ag_blks_res	BS_AG_BLKS_RES_2
		bcch_combined	COMB_CCCH_COMB
<A>		ccch_group	CCCH_GROUP_0
<B>		ccch_group	CCCH_GROUP_2
		page_group	PG_23
		page_block_index	PBI_0
		page_mode	PGM_REORG
(4) MPHC_SCELL_NBCCH_REQ			
		schedule_array_size	SCHED_SIZE_1
		schedule_array	NOT_USED

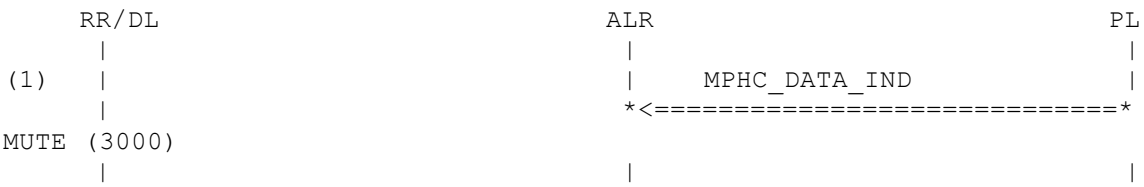
History:			
	07.10.99	MPA	Initial
	19.07.01	MSB	use full sc bcch read MPHC_SCELL_NBCCH_REQ instead of periodical

4.6.2 ALR022: Page Mode Change, Paging Reorganisation

Description: The idle mode is configured with Paging Reorganisation. After reception of a new paging mode this information is forwarded to PL. The message contain the following page modi:
Variant A: Extended Paging
Variant B: Paging Reorganisation
Variant C: Same as before
No reaction is expected.

Preamble: ALR020A

Variants: <A>...<C>



Parametrization

Primitive	Parameter	Value

(1) MPHC_DATA_IND

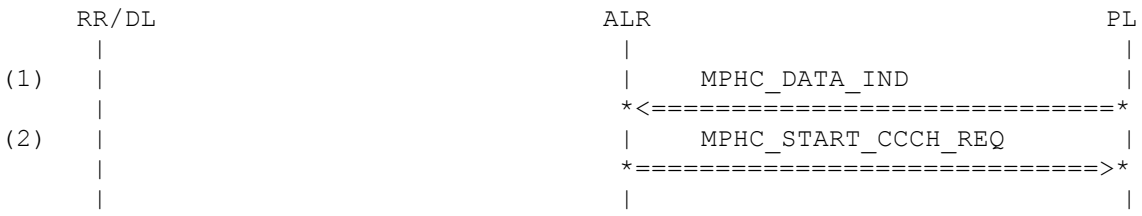
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_PCH
	error_flag	VALID_BLOCK
<A>	l2_frame	L2_PAGING_REQ_1_EXT
<B>	l2_frame	L2_PAGING_REQ_1_REO
<C>	l2_frame	L2_PAGING_REQ_1_SAB
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0

History: 07.10.99 MPA Initial

4.6.3 ALR023: Page Mode Change, Normal Paging to Extended Paging

Description: The idle mode is configured with Normal Paging. After reception of the new paging mode Extended Paging this information is forwarded to the lower layer. The new paging mode is configured for layer 1.

Preamble: ALR025



Parametrization

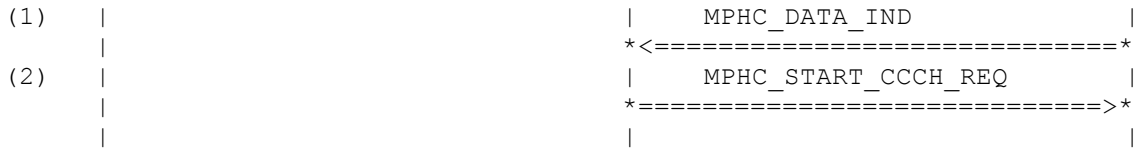
Primitive	Parameter	Value
(1) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_PCH
	error_flag	VALID_BLOCK
	l2_frame	L2_PAGING_REQ_1_EXT
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(2) MPHC_START_CCCH_REQ		
	bs_pa_mfrms	BS_PA_MFRMS_7
	bs_ag_blks_res	BS_AG_BLKS_RES_2
	bcch_combined	COMB_CCCH_COMB
	ccch_group	CCCH_GROUP_2
	page_group	PG_23
	page_block_index	PBI_0
	page_mode	PGM_EXTENDED

History: 07.10.99 MPA Initial

4.6.4 ALR024: Page Mode Change, Normal Paging to Paging Reorganisation

Description: The idle mode is configured with Normal Paging. After reception of the new paging mode Paging Reorganisation this information is forwarded to PL. The new paging mode is configured for layer 1.

Preamble: ALR025



Parametrization

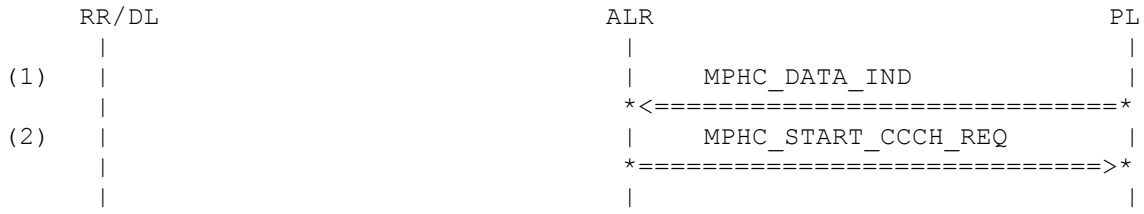
Primitive	Parameter	Value
(1) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_PCH
	error_flag	VALID_BLOCK
	l2_frame	L2_PAGING_REQ_1_REO
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(2) MPHC_START_CCCH_REQ		
	bs_pa_mfrms	BS_PA_MFRMS_2
	bs_ag_blks_res	BS_AG_BLKS_RES_7
	bcch_combined	COMB_CCCH_NOT_COMB
	ccch_group	CCCH_GROUP_0
	page_group	PG_0
	page_block_index	PBI_0
	page_mode	PGM_REORG

History: 07.10.99 MPA Initial

4.6.5 ALR025: Page Mode Change, Back to Normal Paging

Description: The idle mode has been configured for normal paging. After a swap to Paging Reorganisation RR re-configures normal paging.

Preamble: ALR020B



Parametrization

Primitive	Parameter	Value
(1) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_PCH
	error_flag	VALID_BLOCK
	l2_frame	L2_PAGING_REQ_1
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(2) MPHC_START_CCCH_REQ		
	bs_pa_mfrms	BS_PA_MFRMS_7
	bs_ag_blks_res	BS_AG_BLKS_RES_2
	bcch_combined	COMB_CCCH_COMB
	ccch_group	CCCH_GROUP_2
	page_group	PG_23

	page_block_index	PBI_0
	page_mode	PGM_NORMAL

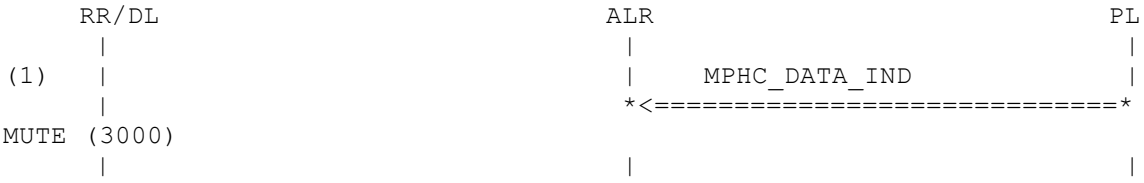
History: 07.10.99 MPA Initial

4.6.6 ALR026: Page Mode Change, Normal Paging

Description: The idle mode is configured with Normal Paging. The messages contain the following page modi:
Variant A: Normal Paging
Variant B: Same as before.
No reaction is exspected.

Preamble: ALR025

Variants: <A>...<B>



Parametrization

Primitive	Parameter	Value
(1) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_PCH
	error_flag	VALID_BLOCK
<A>	l2_frame	L2_PAGING_REQ_1
<B>	l2_frame	L2_PAGING_REQ_1_SAB
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0

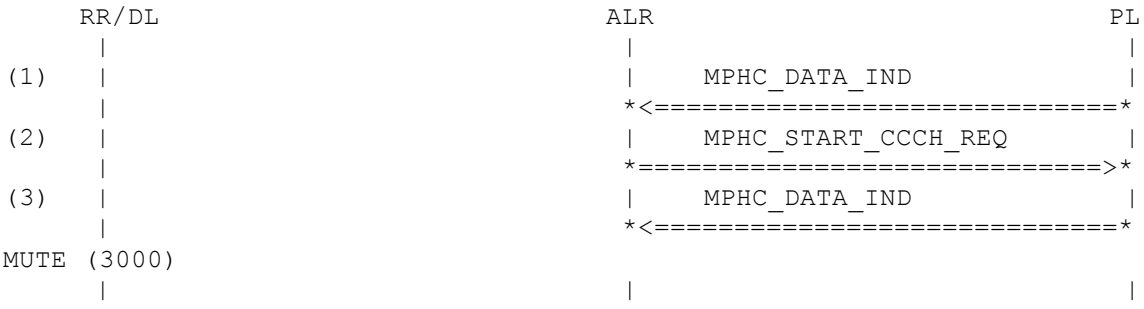
History: 07.10.99 MPA Initial

4.6.7 ALR027: Page Mode Change, Extended Paging a second time

Description: The idle mode has been configured for normal paging. After a swap to Extended Paging this mode is configured a second time.
Variant A: Extended Paging
Variant B: Same as before
Layer 1 must not configured the second time, because it´s a continues process in ALR(MPHC).

Preamble: ALR025

Variants: <A>...<B>



Parametrization

Primitive	Parameter	Value

(1) MPHC_DATA_IND

	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_PCH
	error_flag	VALID_BLOCK
	l2_frame	L2_PAGING_REQ_1_EXT
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0

(2) MPHC_START_CCCH_REQ

	bs_pa_mfrms	BS_PA_MFRMS_7
	bs_ag_blks_res	BS_AG_BLKS_RES_2
	bcch_combined	COMB_CCCH_COMB
	ccch_group	CCCH_GROUP_2
	page_group	PG_23
	page_block_index	PBI_0
	page_mode	PGM_EXTENDED

(3) MPHC_DATA_IND

	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_PCH
	error_flag	VALID_BLOCK
<A>	l2_frame	L2_PAGING_REQ_1_EXT
<B>	l2_frame	L2_PAGING_REQ_1_SAB
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0

History:			
	07.10.99	MPA	Initial
	20.06.01	MSB	Layer 1 must not configured the second time

4.6.8 ALR028: Page Mode Change, Extended Paging to Paging Reorganisation

Description: The idle mode has been configured for normal paging. After a swap to extended paging paging reorganisation is configured.

Preamble: ALR025

Parametrization

Primitive	Parameter	Value

(1) MPHC_DATA_IND

	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_PCH
	error_flag	VALID_BLOCK
	l2_frame	L2_PAGING_REQ_1_EXT
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0

(2) MPHC_START_CCCH_REQ

bs_pa_mfrms	BS_PA_MFRMS_7
bs_ag_blks_res	BS_AG_BLKS_RES_2
bcch_combined	COMB_CCCH_COMB
ccch_group	CCCH_GROUP_2
page_group	PG_23
page_block_index	PBI_0
page_mode	PGM_EXTENDED

(3) MPHC_DATA_IND

radio_freq	ARFCN_23
l2_channel	L2_CHANNEL_PCH
error_flag	VALID_BLOCK
l2_frame	L2_PAGING_REQ_1_REO
tc	TC_0
ccch_lev	NOT_USED
fn	FN_OFFSET_0

(4) MPHC_START_CCCH_REQ

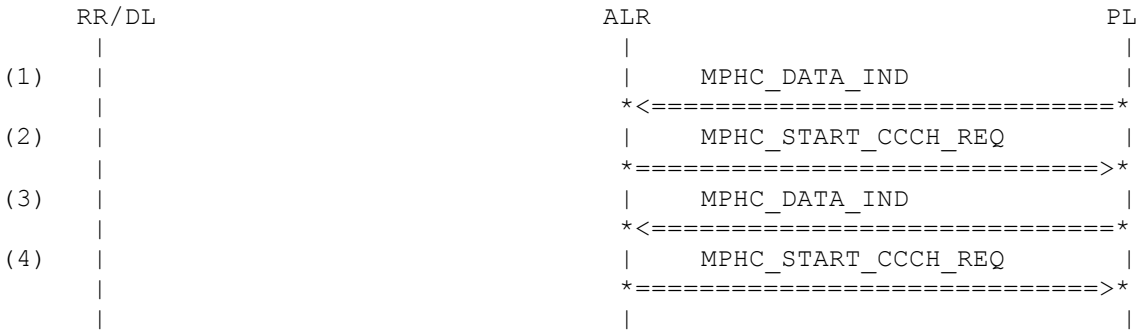
bs_pa_mfrms	BS_PA_MFRMS_2
bs_ag_blks_res	BS_AG_BLKS_RES_7
bcch_combined	COMB_CCCH_NOT_COMB
ccch_group	CCCH_GROUP_0
page_group	PG_0
page_block_index	PBI_0
page_mode	PGM_REORG

History:	07.10.99	MPA	Initial
	20.06.01	MSB	Normal paging will be configure with 025

4.6.9 ALR029: Page Mode Change, Extended Paging to Normal Paging

Description: The idle mode has been configured for normal paging. After reception of the new paging mode normal paging this mode is configured.

Preamble: ALR025



Parametrization

Primitive	Parameter	Value
(1) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_PCH
	error_flag	VALID_BLOCK
	l2_frame	L2_PAGING_REQ_1_EXT
	tc	TC_0

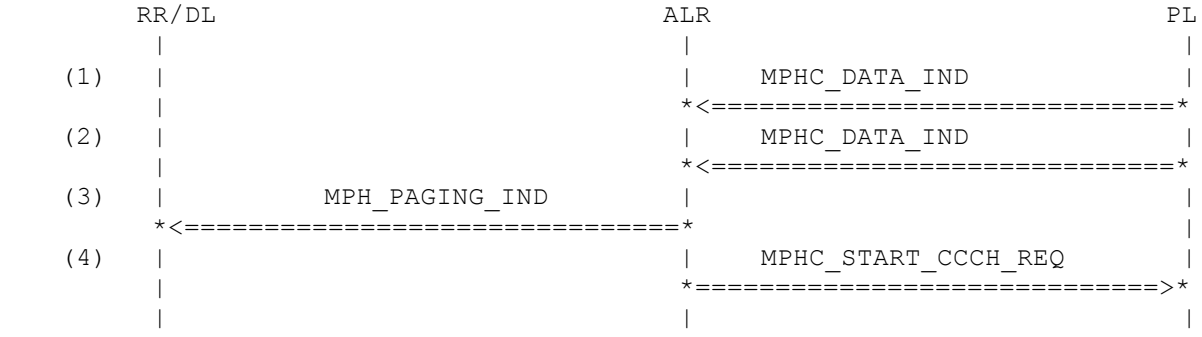
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(2) MPHC_START_CCCH_REQ		
	bs_pa_mfrms	BS_PA_MFRMS_7
	bs_ag_blks_res	BS_AG_BLKS_RES_2
	bcch_combined	COMB_CCCH_COMB
	ccch_group	CCCH_GROUP_2
	page_group	PG_23
	page_block_index	PBI_0
	page_mode	PGM_EXTENDED
(3) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_PCH
	error_flag	VALID_BLOCK
	l2_frame	L2_PAGING_REQ_1
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(4) MPHC_START_CCCH_REQ		
	bs_pa_mfrms	BS_PA_MFRMS_7
	bs_ag_blks_res	BS_AG_BLKS_RES_2
	bcch_combined	COMB_CCCH_COMB
	ccch_group	CCCH_GROUP_2
	page_group	PG_23
	page_block_index	PBI_0
	page_mode	PGM_NORMAL

History:	07.10.99	MPA	Initial
	20.06.01	MSB	reconfiguration to normal paging

4.6.10 ALR700: Page Mode Change according 26.6.2.3.1

Description: The idle mode is configured with Paging Reorganisation. After reception of the paging mode Paging Reorganisation no change occurs (received with an immediate assignment extended message. Then the mobile is paged with a paging request 2 message. It is expected that the paging is detected by the mobile.

Preamble: ALR013



Parametrization

Primitive	Parameter	Value
(1) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_PCH

	error_flag	VALID_BLOCK
	l2_frame	L2_IMM_ASS_EXT_REO
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0

(2) MPHC_DATA_IND

	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_PCH
	error_flag	VALID_BLOCK
	l2_frame	L2_PAG_2_T1_A
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0

(3) MPH_PAGING_IND

	identity_type	ID_TMSI
	channel_needed	CN_ANY_CHAN

(4) MPHC_START_CCCH_REQ

	bs_pa_mfrms	BS_PA_MFRMS_8
	bs_ag_blks_res	BS_AG_BLKS_RES_3
	bcch_combined	COMB_CCCH_COMB
	ccch_group	CCCH_GROUP_0
	page_group	PG_20
	page_block_index	PBI_0
	page_mode	PGM_NORMAL

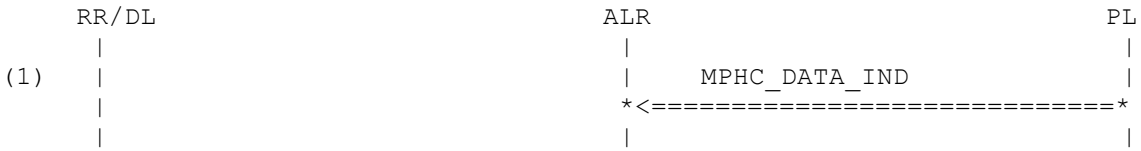
History:	07.10.99	MPA	Initial

4.7 Paging

4.7.1 ALR070: Paging Req 1, Empty Paging Message

Description: The MS is in idle mode. It receives an empty paging message. The message content is not forwarded to RR.

Preamble: ALR013



Parametrization

Primitive	Parameter	Value

(1) MPHC_DATA_IND

	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_PCH
	error_flag	VALID_BLOCK
	l2_frame	L2_PAG_1_EMPTY
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0

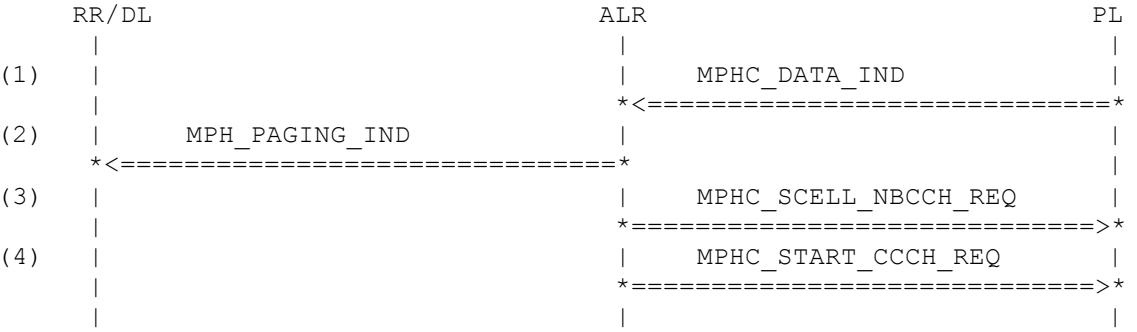
History:	08.10.99	MPA	Initial

4.7.2 ALR071: Paging Req 1, IMSI / TMSI for MS

Description: The MS is in idle mode. It receives a paging message corresponding to the actual IMSI or TMSI. A paging indication is forwarded to RR.
Variant A: IMSI mobile identity 1, any channel needed
Variant B: IMSI mobile identity 2, any channel needed
Variant C: TMSI mobile identity 1, TCH/F channel needed
Variant D: TMSI mobile identity 2, TCH/F channel needed
Variant E: IMSI mobile identity 1, SDCCH channel needed
Variant F: IMSI mobile identity 2, SDCCH channel needed
Variant G: TMSI mobile identity 1, Dual Rate channel needed
Variant H: TMSI mobile identity 2, Dual Rate channel needed

Preamble: ALR013

Variants: <A>..<H>



Parametrization

Primitive	Parameter	Value
(1) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_PCH
	error_flag	VALID_BLOCK
<A>	l2_frame	L2_PAG_1_I1_A
<B>	l2_frame	L2_PAG_1_I2_A
<C>	l2_frame	L2_PAG_1_T1_T
<D>	l2_frame	L2_PAG_1_T2_T
<E>	l2_frame	L2_PAG_1_I1_S
<F>	l2_frame	L2_PAG_1_I2_S
<G>	l2_frame	L2_PAG_1_T1_D
<H>	l2_frame	L2_PAG_1_T2_D
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(2) MPH_PAGING_IND		
<A>	identity_type	ID_TYPE_IMSI
<B>	identity_type	ID_TYPE_IMSI
<C>	identity_type	ID_TYPE_TMSI
<D>	identity_type	ID_TYPE_TMSI
<E>	identity_type	ID_TYPE_IMSI
<F>	identity_type	ID_TYPE_IMSI
<G>	identity_type	ID_TYPE_TMSI
<H>	identity_type	ID_TYPE_TMSI
<A>	channel_needed	CN_ANY_CHAN
<B>	channel_needed	CN_ANY_CHAN
<C>	channel_needed	CN_TCH_F
<D>	channel_needed	CN_TCH_F
<E>	channel_needed	CN_SDCCH
<F>	channel_needed	CN_SDCCH

<G>	channel_needed	CN_TCH
<H>	channel_needed	CN_TCH

(1) MPHC_SCELL_NBCCH_REQ

	schedule_array_size
PERIODIC_SCELL_BCCH_ARRAY_SIZE	
	schedule_array
PERIODIC_SCELL_BCCH_ARRAY	

(3) MPHC_START_CCCH_REQ

bs_pa_mfrms	BS_PA_MFRMS_8
bs_ag_blks_res	BS_AG_BLKS_RES_3
bcch_combined	COMB_CCCH_COMB
ccch_group	CCCH_GROUP_0
page_group	PG_20
page_block_index	PBI_0
page_mode	PGM_NORMAL

History: 08.10.99 MPA Initial

4.7.3 ALR072: Paging Req 1, Not for MS

Description: The MS is in idle mode. It receives paging request type 1 messages. The message content is not forwarded to RR, because the message content doesn´t match to the MS identities.
Variant A: wrong IMSI mobile identity 1
Variant B: wrong TMSI mobile identity 1
Variant C: wrong IMSI mobile identity 2
Variant D: wrong TMSI mobile identity 2
Variant E: wrong type mobile identity 2

Preamble: ALR013

Variants: <A>..<E>

Parametrization

Primitive	Parameter	Value
(1) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_PCH
	error_flag	VALID_BLOCK
<A>	l2_frame	L2_PAG_1_WI1
<B>	l2_frame	L2_PAG_1_WT1
<C>	l2_frame	L2_PAG_1_WI2
<D>	l2_frame	L2_PAG_1_WT2
<E>	l2_frame	L2_PAG_1_WTYPE
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0

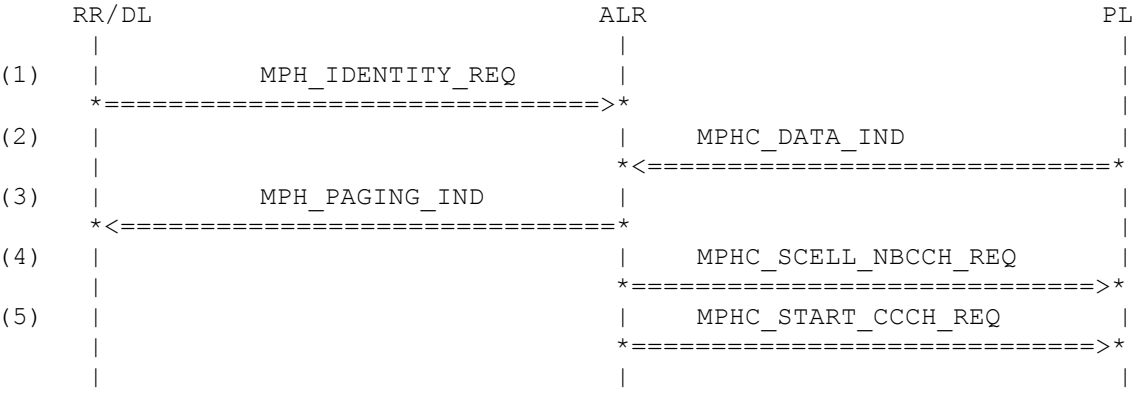
History: 08.10.99 MPA Initial

4.7.4 ALR073: Paging Req 1, Short IMSI / TMSI for MS

Description: The MS is in idle mode. It receives a paging message corresponding to the actual IMSI or TMSI. A paging indication is forwarded to RR. The IMSI is less than 15 digits

and the TMSI has only one valid byte, but is signalled in different ways by the infrastructure
Variant A: Short TMSI mobile identity 1, any channel needed, 1 byte length from the network
Variant B: Short TMSI mobile identity 2, TCH/F needed, 3 bytes length from the network
Variant C: Short IMSI mobile identity 1, SDCCH needed, 10 digits
Variant D: Short IMSI mobile identity 2, Dual Rate needed, 10 digits
Variant E: Short TMSI mobile identity 1, any channel needed, 2 bytes length from the network
Variant F: Short TMSI mobile identity 2, TCH/F needed, 4 bytes length from the network

Preamble: ALR013
Variants: <A>..<F>



Parametrization

Primitive	Parameter	Value
(1) MPH_IDENTITY_REQ		
	mid	MS_ID_SHORT_IMSI_TMSI
(2) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_PCH
	error_flag	VALID_BLOCK
<A>	l2_frame	L2_PAG_1_ST1_A1
<B>	l2_frame	L2_PAG_1_ST2_T3
<C>	l2_frame	L2_PAG_1_SI1_S
<D>	l2_frame	L2_PAG_1_SI2_D
<E>	l2_frame	L2_PAG_1_ST1_A2
<F>	l2_frame	L2_PAG_1_ST2_T4
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(3) MPH_PAGING_IND		
<A>	identity_type	ID_TYPE_TMSI
<B>	identity_type	ID_TYPE_TMSI
<C>	identity_type	ID_TYPE_IMSI
<D>	identity_type	ID_TYPE_IMSI
<E>	identity_type	ID_TYPE_TMSI
<F>	identity_type	ID_TYPE_TMSI
<A>	channel_needed	CN_ANY_CHAN
<B>	channel_needed	CN_TCH_F
<C>	channel_needed	CN_SDCCH
<D>	channel_needed	CN_TCH
<E>	channel_needed	CN_ANY_CHAN
<F>	channel_needed	CN_TCH_F

(4) MPHC_SCELL_NBCCH_REQ

schedule_array_size	PERIODIC_SCELL_BCCH_ARRAY_SIZE
schedule_array	PERIODIC_SCELL_BCCH_ARRAY

(5) MPHC_START_CCCH_REQ

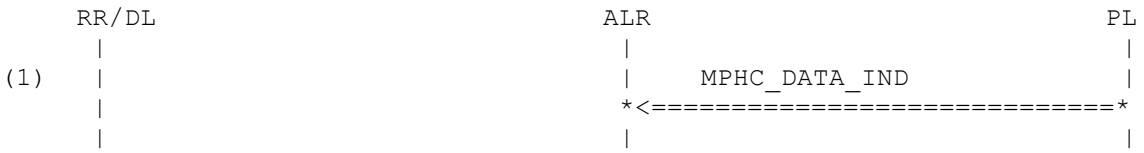
bs_pa_mfrms	BS_PA_MFRMS_8
bs_ag_blks_res	BS_AG_BLKS_RES_3
bcch_combined	COMB_CCCH_COMB
ccch_group	CCCH_GROUP_0
page_group	PG_20
page_block_index	PBI_0
page_mode	PGM_NORMAL

History: 08.10.99 MPA Initial

4.7.5 ALR074: Paging Req 2, Empty Paging Message

Description: The MS is in idle mode. It receives an empty paging message. The message content is not forwarded to RR.

Preamble: ALR013



Parametrization

Primitive	Parameter	Value
(1) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_PCH
	error_flag	VALID_BLOCK
	l2_frame	L2_PAG_2_EMPTY
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0

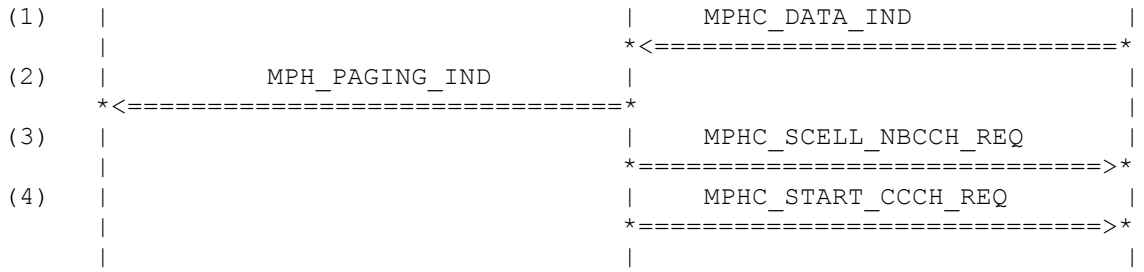
History: 08.10.99 MPA Initial

4.7.6 ALR075: Paging Req 2, TMSI for MS (Mobile Identity 1 or 2)

Description: The MS is in idle mode. It receives a paging message corresponding to the actual TMSI in the information elements mobile identity 1 or 2. A paging indication is forwarded to RR.
Variant A: TMSI mobile identity 1, any channel needed
Variant B: TMSI mobile identity 1, SDCCH needed
Variant C: TMSI mobile identity 1, TCH/F needed
Variant D: TMSI mobile identity 1, Dual Rate needed
Variant E: TMSI mobile identity 2, any channel needed
Variant F: TMSI mobile identity 2, SDCCH needed
Variant G: TMSI mobile identity 2, TCH/F needed
Variant H: TMSI mobile identity 2, Dual Rate needed

Preamble: ALR013

Variants: <A>..<H>



Parametrization

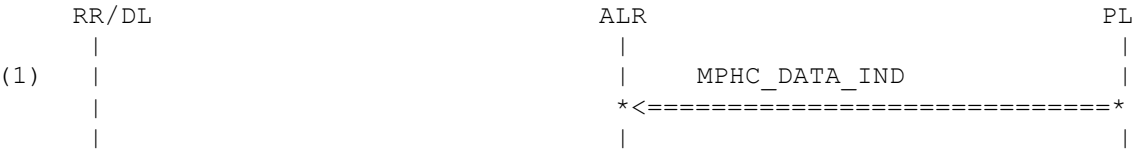
Primitive	Parameter	Value
(1) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_PCH
	error_flag	VALID_BLOCK
<A>	l2_frame	L2_PAG_2_T1_A
<B>	l2_frame	L2_PAG_2_T1_S
<C>	l2_frame	L2_PAG_2_T1_T
<D>	l2_frame	L2_PAG_2_T1_D
<E>	l2_frame	L2_PAG_2_T2_A
<F>	l2_frame	L2_PAG_2_T2_S
<G>	l2_frame	L2_PAG_2_T2_T
<H>	l2_frame	L2_PAG_2_T2_D
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(2) MPH_PAGING_IND		
	identity_type	ID_TYPE_TMSI
<A>	channel_needed	CN_ANY_CHAN
<B>	channel_needed	CN_SDCCH
<C>	channel_needed	CN_TCH_F
<D>	channel_needed	CN_TCH
<E>	channel_needed	CN_ANY_CHAN
<F>	channel_needed	CN_SDCCH
<G>	channel_needed	CN_TCH_F
<H>	channel_needed	CN_TCH
(3) MPHC_SCELL_NBCCH_REQ		
	schedule_array_size	
PERIODIC_SCELL_BCCH_ARRAY_SIZE		
	schedule_array	
PERIODIC_SCELL_BCCH_ARRAY		
(4) MPHC_START_CCCH_REQ		
	bs_pa_mfrms	BS_PA_MFRMS_8
	bs_ag_blks_res	BS_AG_BLKS_RES_3
	bcch_combined	COMB_CCCH_COMB
	ccch_group	CCCH_GROUP_0
	page_group	PG_20
	page_block_index	PBI_0
	page_mode	PGM_NORMAL

History: 08.10.99 MPA Initial

4.7.7 ALR076: Paging Req 2, Not for MS

Description: The MS is in idle mode. It receives paging request type 2 messages. The message content is not forwarded to RR, because the message content doesn´t match to the MS identities.

Preamble: ALR013



Parametrization

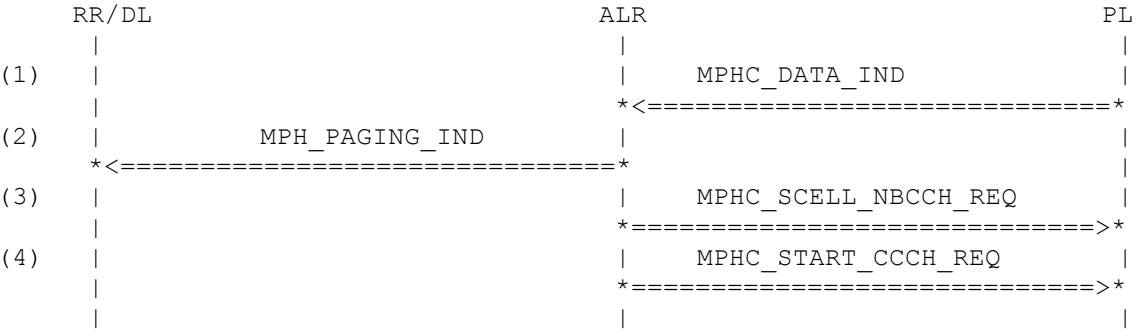
Primitive	Parameter	Value
(1) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_PCH
	error_flag	VALID_BLOCK
	l2_frame	L2_PAG_2_WRONG
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0

History: 08.10.99 MPA Initial

4.7.8 ALR077: Paging Req 2, IMSI / TMSI for MS (Mobile Identity 3)

Description: The MS is in idle mode. It receives a paging request type 2 message corresponding to the actual IMSI or TMSI in information element in the information element mobile identity 3. A paging indication is forwarded to RR.
Variant A: IMSI mobile identity 3, any channel needed
Variant B: IMSI mobile identity 3, SDCCH needed
Variant C: IMSI mobile identity 3, TCH/F needed
Variant D: IMSI mobile identity 3, Dual Rate needed
Variant E: IMSI mobile identity 3, no channel indication
Variant F: TMSI mobile identity 3, any channel needed
Variant G: TMSI mobile identity 3, SDCCH needed,
Variant H: TMSI mobile identity 3, TCH/F needed
Variant I: TMSI mobile identity 3, Dual Rate needed
Variant J: TMSI mobile identity 3, no channel indication

Preamble: ALR013
Variants: <A>..<J>



Parametrization

Primitive	Parameter	Value
(1) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_PCH

	error_flag	VALID_BLOCK
<A>	l2_frame	L2_PAG_2_I3_A
<B>	l2_frame	L2_PAG_2_I3_S
<C>	l2_frame	L2_PAG_2_I3_T
<D>	l2_frame	L2_PAG_2_I3_D
<E>	l2_frame	L2_PAG_2_I3_N
<F>	l2_frame	L2_PAG_2_T3_A
<G>	l2_frame	L2_PAG_2_T3_S
<H>	l2_frame	L2_PAG_2_T3_T
<I>		l2_frame L2_PAG_2_T3_D
<J>	l2_frame	L2_PAG_2_T3_N
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0

(2) MPH_PAGING_IND

<A>	identity_type	ID_TYPE_IMSI
<B>	identity_type	ID_TYPE_IMSI
<C>	identity_type	ID_TYPE_IMSI
<D>	identity_type	ID_TYPE_IMSI
<E>	identity_type	ID_TYPE_IMSI
<F>	identity_type	ID_TYPE_TMSI
<G>	identity_type	ID_TYPE_TMSI
<H>	identity_type	ID_TYPE_TMSI
<I>		identity_type ID_TYPE_TMSI
<J>	identity_type	ID_TYPE_TMSI
<A>	channel_needed	CN_ANY_CHAN
<B>	channel_needed	CN_SDCCH
<C>	channel_needed	CN_TCH_F
<D>	channel_needed	CN_TCH
<E>	channel_needed	CN_ANY_CHAN
<F>	channel_needed	CN_ANY_CHAN
<G>	channel_needed	CN_SDCCH
<H>	channel_needed	CN_TCH_F
<I>		channel_needed CN_TCH
<J>	channel_needed	CN_ANY_CHAN

(3) MPHC_SCELL_NBCCH_REQ

	schedule_array_size
PERIODIC_SCELL_BCCH_ARRAY_SIZE	
	schedule_array
PERIODIC_SCELL_BCCH_ARRAY	

(4) MPHC_START_CCCH_REQ

bs_pa_mfrms	BS_PA_MFRMS_8
bs_ag_blks_res	BS_AG_BLKS_RES_3
bcch_combined	COMB_CCCH_COMB
ccch_group	CCCH_GROUP_0
page_group	PG_20
page_block_index	PBI_0
page_mode	PGM_NORMAL

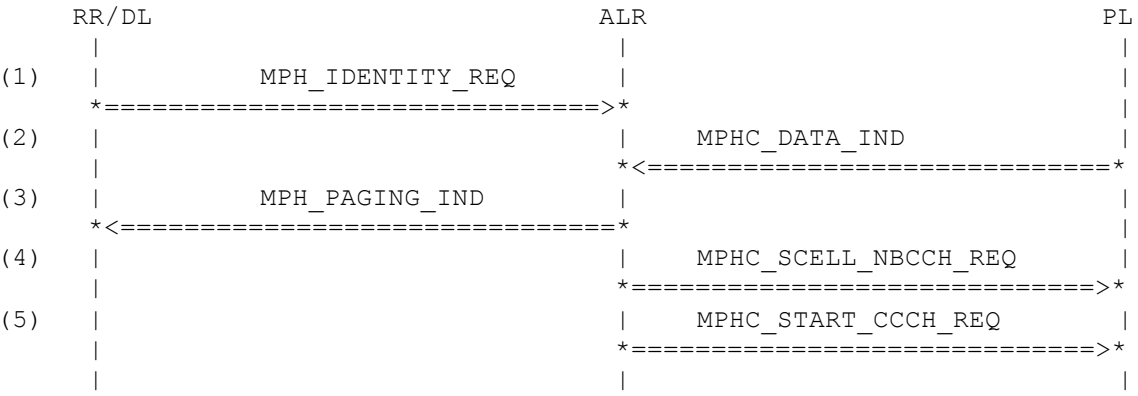
History: 08.10.99 MPA Initial

4.7.9 ALR078: Paging Req 2, Short IMSI / TMSI for MS (Mobile Identity 3)

Description: The MS is in idle mode. It receives a paging request type 2 message corresponding to the actual IMSI or TMSI in information element in the information element mobile identity 3. A paging indication is forwarded to RR. The IMSI is less than 15 digits and the

TMSI has only one valid byte, but is signalled in different ways by the infrastructure
Variant A: Short IMSI mobile identity 3, any channel needed, 10 digits
Variant B: Short TMSI mobile identity 3, SDCCH needed, 1 byte from the network
Variant C: Short TMSI mobile identity 3, TCH/F needed, 2 bytes from the network
Variant D: Short TMSI mobile identity 3, Dual Rate needed, 3 bytes from the network
Variant E: Short TMSI mobile identity 3, No channel indication, 4 bytes from the network

Preamble: ALR013
Variants: <A>..<E>



Parametrization

Primitive	Parameter	Value
(1) MPH_IDENTITY_REQ		
	mid	MS_ID_SHORT_IMSI_TMSI
(2) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_PCH
	error_flag	VALID_BLOCK
<A>	l2_frame	L2_PAG_2_SI3_A
<B>	l2_frame	L2_PAG_2_ST3_S
<C>	l2_frame	L2_PAG_2_ST3_T
<D>	l2_frame	L2_PAG_2_ST3_D
<E>	l2_frame	L2_PAG_2_ST3_N
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(3) MPH_PAGING_IND		
<A>	identity_type	ID_TYPE_IMSI
<B>	identity_type	ID_TYPE_TMSI
<C>	identity_type	ID_TYPE_TMSI
<D>	identity_type	ID_TYPE_TMSI
<E>	identity_type	ID_TYPE_TMSI
<A>	channel_needed	CN_ANY_CHAN
<B>	channel_needed	CN_SDCCH
<C>	channel_needed	CN_TCH_F
<D>	channel_needed	CN_TCH
<E>	channel_needed	CN_ANY_CHAN
(4) MPHC_SCELL_NBCCH_REQ		
	schedule_array_size	
PERIODIC_SCELL_BCCH_ARRAY_SIZE		
	schedule_array	
PERIODIC_SCELL_BCCH_ARRAY		
(5) MPHC_START_CCCH_REQ		
	bs_pa_mfrms	BS_PA_MFRMS_8

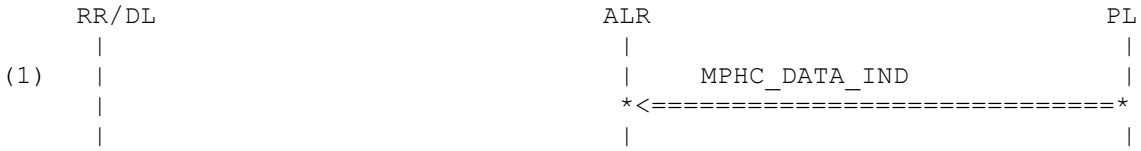
bs_ag_blks_res	BS_AG_BLKS_RES_3
bcch_combined	COMB_CCCH_COMB
ccch_group	CCCH_GROUP_0
page_group	PG_20
page_block_index	PBI_0
page_mode	PGM_NORMAL

History: 08.10.99 MPA Initial

4.7.10 ALR079: Paging Req 3, Empty Paging Message

Description: The MS is in idle mode. It receives an empty paging message. The message content is not forwarded to RR.

Preamble: ALR013



Parametrization

Primitive	Parameter	Value
(1) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_PCH
	error_flag	VALID_BLOCK
	l2_frame	L2_PAG_3_EMPTY
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0

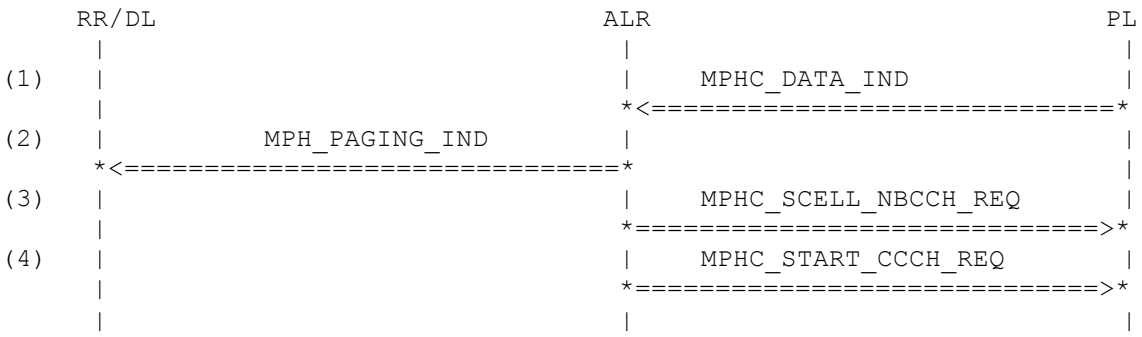
History: 08.10.99 MPA Initial

4.7.11 ALR080: Paging Req 3, TMSI for MS

Description: The MS is in idle mode. It receives a paging message corresponding to the actual TMSI in the information elements mobile identity 1 to 4. A paging indication is forwarded to RR.
Variant A: TMSI mobile identity 1, any channel needed
Variant B: TMSI mobile identity 1, SDCCH needed
Variant C: TMSI mobile identity 1, TCH/F needed
Variant D: TMSI mobile identity 1, Dual Rate needed
Variant E: TMSI mobile identity 2, any channel needed
Variant F: TMSI mobile identity 2, SDCCH needed
Variant G: TMSI mobile identity 2, TCH/F needed
Variant H: TMSI mobile identity 2, Dual Rate needed
Variant I: TMSI mobile identity 3, any channel needed
Variant J: TMSI mobile identity 3, SDCCH needed
Variant K: TMSI mobile identity 3, TCH/F needed
Variant L: TMSI mobile identity 3, Dual Rate needed
Variant M: TMSI mobile identity 3, no channel indication
Variant N: TMSI mobile identity 4, any channel needed
Variant O: TMSI mobile identity 4, SDCCH needed
Variant P: TMSI mobile identity 4, TCH/F needed
Variant Q: TMSI mobile identity 4, Dual Rate needed
Variant R: TMSI mobile identity 4, no channel indication

Preamble: ALR013

Variants: <A>..<R>



Parametrization

Primitive	Parameter	Value
(1) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_PCH
	error_flag	VALID_BLOCK
<A>	l2_frame	L2_PAG_3_T1_A
<B>	l2_frame	L2_PAG_3_T1_S
<C>	l2_frame	L2_PAG_3_T1_T
<D>	l2_frame	L2_PAG_3_T1_D
<E>	l2_frame	L2_PAG_3_T2_A
<F>	l2_frame	L2_PAG_3_T2_S
<G>	l2_frame	L2_PAG_3_T2_T
<H>	l2_frame	L2_PAG_3_T2_D
<I>		l2_frame L2_PAG_3_T3_A
<J>	l2_frame	L2_PAG_3_T3_S
<K>	l2_frame	L2_PAG_3_T3_T
<L>	l2_frame	L2_PAG_3_T3_D
<M>	l2_frame	L2_PAG_3_T3_N
<N>	l2_frame	L2_PAG_3_T4_A
<O>	l2_frame	L2_PAG_3_T4_S
<P>	l2_frame	L2_PAG_3_T4_T
<Q>	l2_frame	L2_PAG_3_T4_D
<R>	l2_frame	L2_PAG_3_T4_N
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(2) MPH_PAGING_IND		
	identity_type	ID_TYPE_TMSI
<A>	channel_needed	CN_ANY_CHAN
<B>	channel_needed	CN_SDCCH
<C>	channel_needed	CN_TCH_F
<D>	channel_needed	CN_TCH
<E>	channel_needed	CN_ANY_CHAN
<F>	channel_needed	CN_SDCCH
<G>	channel_needed	CN_TCH_F
<H>	channel_needed	CN_TCH
<I>		channel_needed CN_ANY_CHAN
<J>	channel_needed	CN_SDCCH
<K>	channel_needed	CN_TCH_F
<L>	channel_needed	CN_TCH
<M>	channel_needed	CN_ANY_CHAN
<N>	channel_needed	CN_ANY_CHAN
<O>	channel_needed	CN_SDCCH
<P>	channel_needed	CN_TCH_F

<Q>	channel_needed	CN_TCH
<R>	channel_needed	CN_ANY_CHAN

(3) MPHC_SCELL_NBCCH_REQ

	schedule_array_size
PERIODIC_SCELL_BCCH_ARRAY_SIZE	
	schedule_array
PERIODIC_SCELL_BCCH_ARRAY	

(4) MPHC_START_CCCH_REQ

bs_pa_mfrms	BS_PA_MFRMS_8
bs_ag_blks_res	BS_AG_BLKS_RES_3
bcch_combined	COMB_CCCH_COMB
ccch_group	CCCH_GROUP_0
page_group	PG_20
page_block_index	PBI_0
page_mode	PGM_NORMAL

History:	08.10.99	MPA	Initial

4.7.12 ALR081: Paging Req 3, Not for MS

Description: The MS is in idle mode. It receives paging request type 3 messages. The message content is not forwarded to RR, because the message content doesn´t match to the MS identities.

Preamble: ALR013

Parametrization

Primitive	Parameter	Value
(1) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_PCH
	error_flag	VALID_BLOCK
	l2_frame	L2_PAG_3_WRONG
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0

History:	08.10.99	MPA	Initial

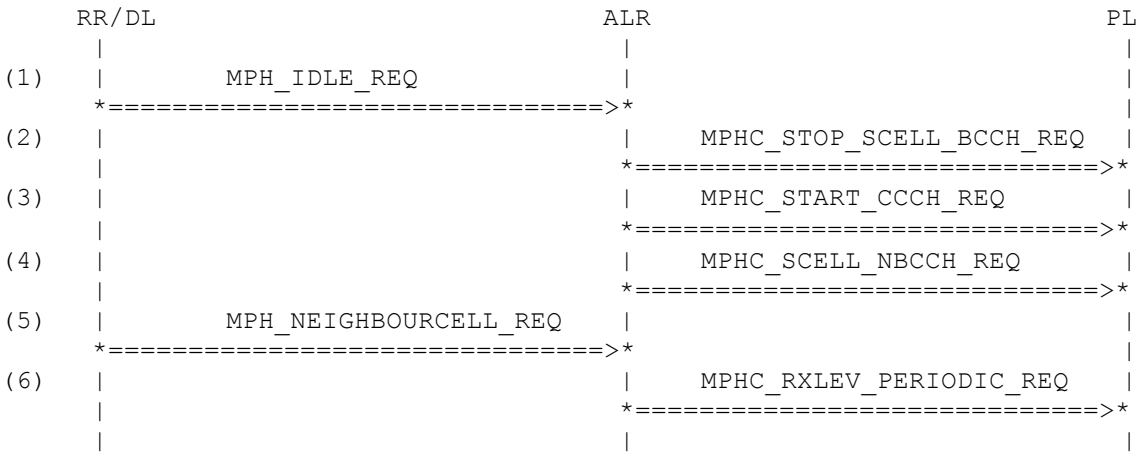
4.8 Measurement Reporting

4.8.1 ALR030: Measurement Reporting, Configuration

Description: The idle mode is configured for different multiframe periods.
Variant A: bs_pa_mfrms = 2
Variant B: bs_pa_mfrms = 3
Variant C: bs_pa_mfrms = 4
Variant D: bs_pa_mfrms = 5
Variant E: bs_pa_mfrms = 6
Variant F: bs_pa_mfrms = 7

Variant G: bs_pa_mfrms = 8
Variant H: bs_pa_mfrms = 9

Preamble: ALR007
Variants: <A>...<H>



Parametrization

Primitive	Parameter	Value
(1) MPH_IDLE_REQ		
	mod	NOT_USED
	arfcn	ARFCN_23
	ext_bcch	NOT_USED
	comb_ccch	COMB_CCCH_NOT_COMB
	tn	TN_0
	dlt	DLT_24
	pg	PG_11
	bs_ag_blocks_res	BS_AG_BLKS_RES_2
<A>	bs_pa_mfrms	BS_PA_MFRMS_0
<B>	bs_pa_mfrms	BS_PA_MFRMS_1
<C>	bs_pa_mfrms	BS_PA_MFRMS_2
<D>	bs_pa_mfrms	BS_PA_MFRMS_3
<E>	bs_pa_mfrms	BS_PA_MFRMS_4
<F>	bs_pa_mfrms	BS_PA_MFRMS_5
<G>	bs_pa_mfrms	BS_PA_MFRMS_6
<H>	bs_pa_mfrms	BS_PA_MFRMS_7
	power	POWER_12
	ncc_permitted	NOT_PRESENT_8BIT
	reorg_only	NOT_USED
(2) MPHC_STOP_SCELL_BCCH_REQ		
	param	NOT_USED
(3) MPHC_START_CCCH_REQ		
<A>	bs_pa_mfrms	BS_PA_MFRMS_2
<B>	bs_pa_mfrms	BS_PA_MFRMS_3
<C>	bs_pa_mfrms	BS_PA_MFRMS_4
<D>	bs_pa_mfrms	BS_PA_MFRMS_5
<E>	bs_pa_mfrms	BS_PA_MFRMS_6
<F>	bs_pa_mfrms	BS_PA_MFRMS_7
<G>	bs_pa_mfrms	BS_PA_MFRMS_8
<H>	bs_pa_mfrms	BS_PA_MFRMS_9
	bs_ag_blks_res	BS_AG_BLKS_RES_2
	bcch_combined	COMB_CCCH_NOT_COMB
	ccch_group	CCCH_GROUP_0
	page_group	PG_11

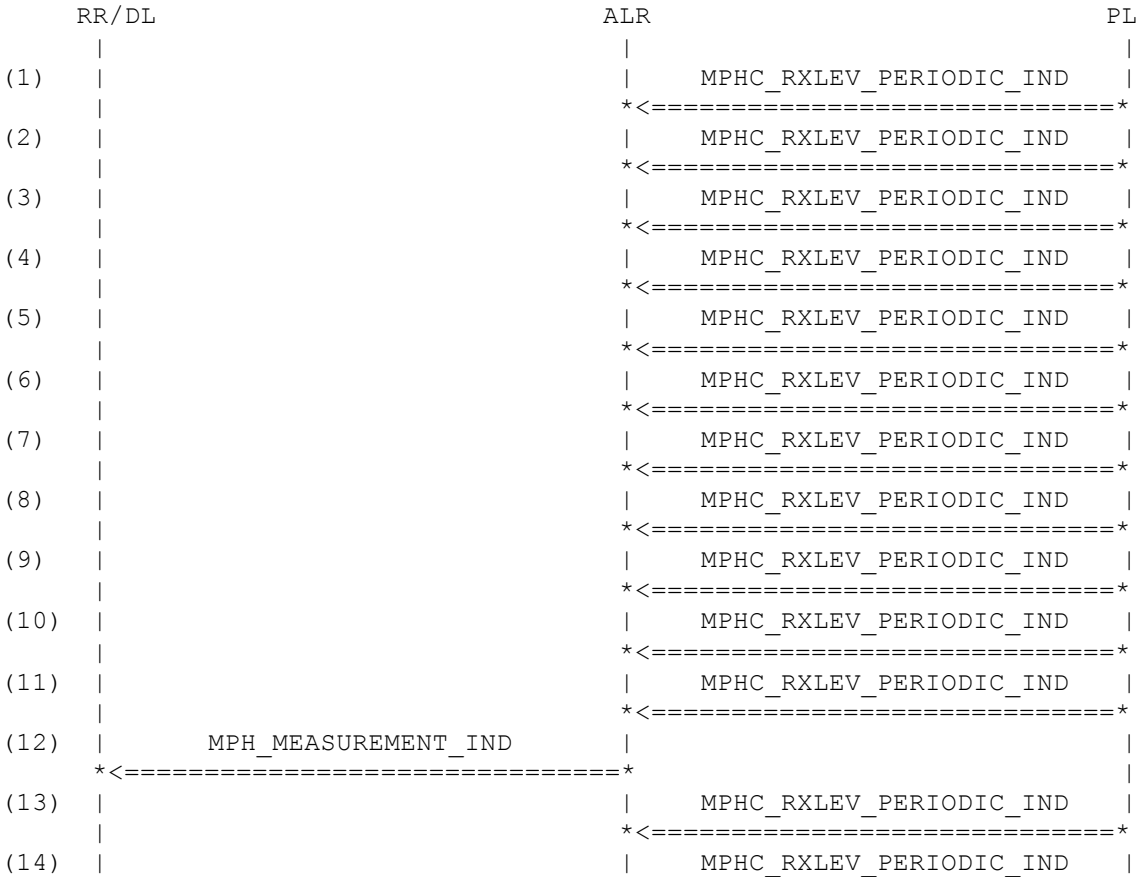
	page_block_index	PBI_4
	page_mode	PGM_REORG
(4) MPHC_SCELL_NBCCH_REQ		
	schedule_array_size	SCHED_SIZE_1
	schedule_array	NOT_USED
(5) MPH_NEIGHBOURCELL_REQ		
	multi_band	MULTI_BAND_0
	arfcn	EMPTY_NCELL_LIST
	sync_only	NOT_USED
(6) MPHC_RXLEV_PERIODIC_REQ		
	chan_list	CHLIST_23
	num_of_chans	CHANNELS_1
	ba_id	BA_ID_1
	next_radio_freq_measured	CHAN_LIST_IDX_0

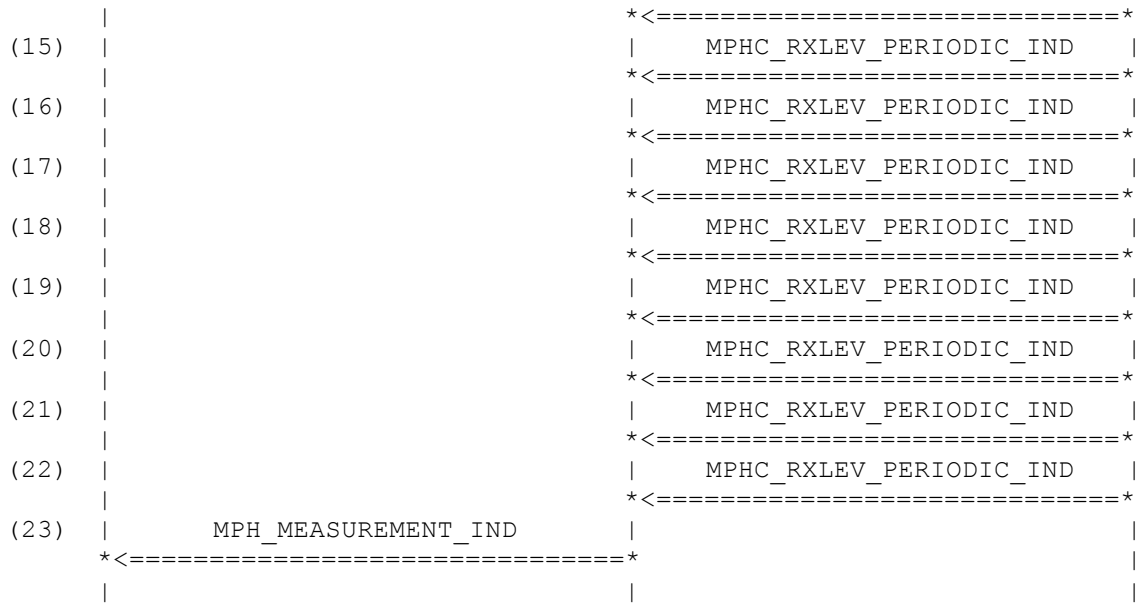
History:	08.10.99	MPA	Initial
	07.02.02	LG	changed value for ba_id

4.8.2 ALR031: Measurement Reporting, BS_PA_MFRMS = 2

Description: Measurement reporting for the serving cell is tested. The multiframe period is set to two multiframes. It is exspected that the initial report to RR is send after eleven reports of layer 1 and successive reports are send to RR after ten reports. The number of TDMA frames between measurement reports to RR is 102 TDMA frames which is equal to two multiframes.

Preamble: ALR030A





Parametrization

Primitive	Parameter	Value
(1) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(2) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(3) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(4) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(5) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(6) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(7) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0

	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(8) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(9) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(10) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(11) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(12) MPH_MEASUREMENT_IND		
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_1020
	ncells	NOT_USED
	gprs_sync	NOT_USED
(13) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(14) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(15) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(16) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0

	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(17) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(18) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(19) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(20) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(21) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(22) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(23) MPH_MEASUREMENT_IND		
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_102
	ncells	NOT_USED
	gprs_sync	NOT_USED

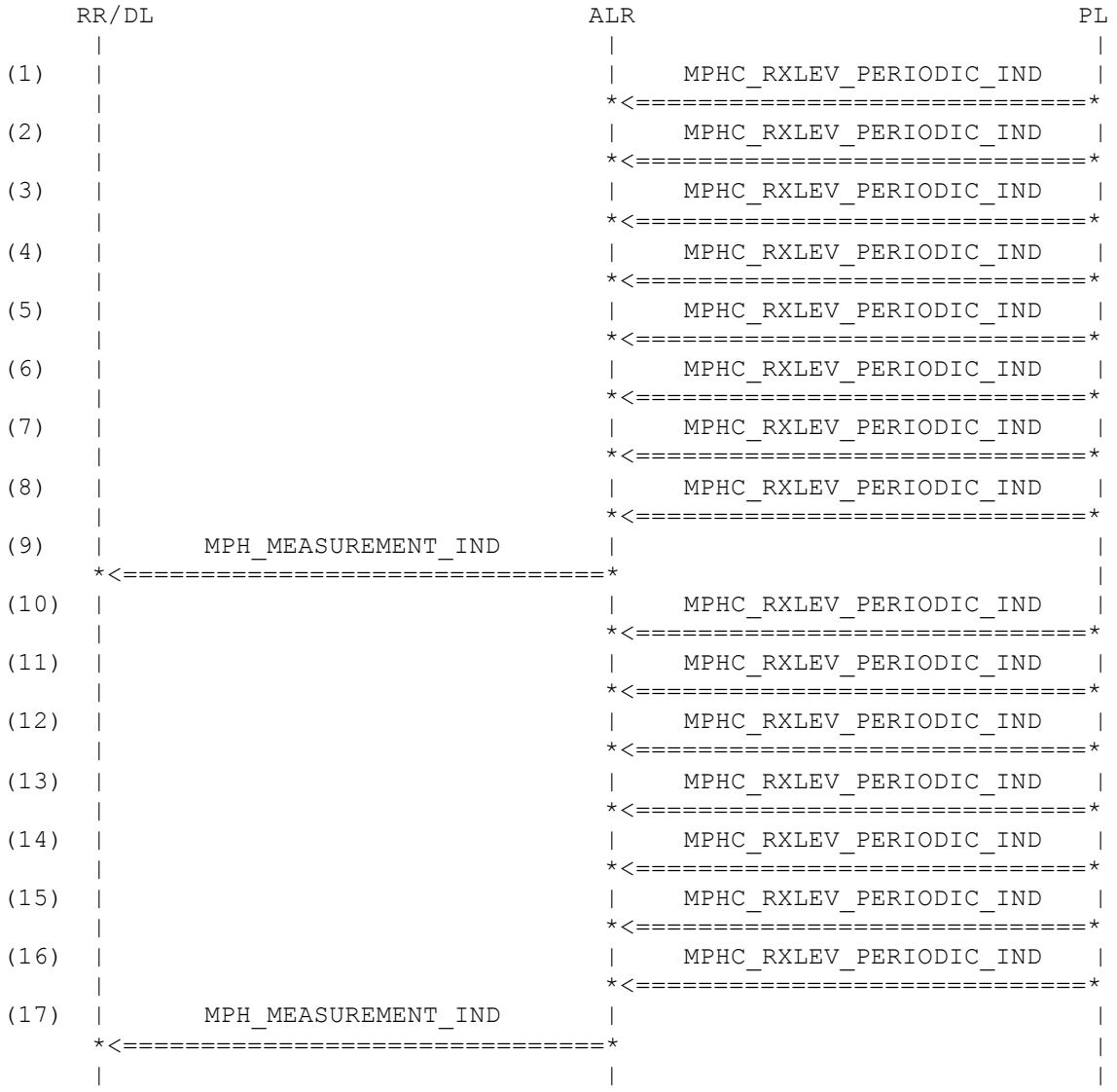
History:			
	08.10.99	MPA	Initial
	08.06.01	MSB	fn_offset in (12) corrected
	07.02.02	LG	changed value for ba_id

4.8.3 ALR032: Measurement Reporting, BS_PA_MFRMS = 3

Description: Measurement reporting for the serving cell is tested. The multiframe period is set to three multiframes. It is exspected that the initial report to RR is send after eight reports

of layer 1 and successive reports are send to RR after seven reports. The number of TDMA frames between measurement reports to RR is 153 TDMA frames which is equal to three multiframes.

Preamble: ALR030B



Parametrization

Primitive	Parameter	Value
(1) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(2) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(3) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0

	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(4) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(5) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(6) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(7) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(8) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(9) MPH_MEASUREMENT_IND		
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_1071
	ncells	NOT_USED
	gprs_sync	NOT_USED
(10) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(11) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(12) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0

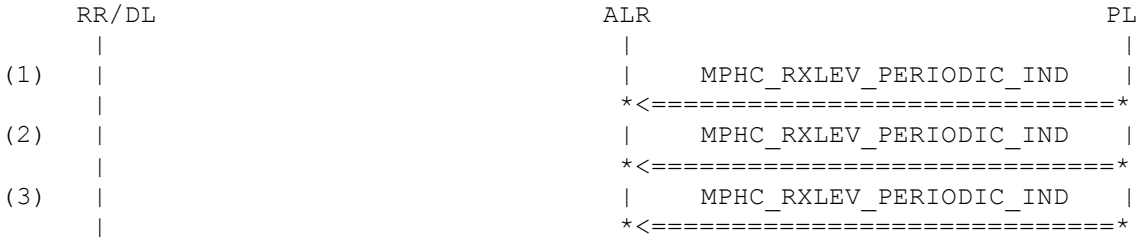
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(13) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(14) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(15) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(16) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(17) MPH_MEASUREMENT_IND		
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_153
	ncells	NOT_USED
	gprs_sync	NOT_USED

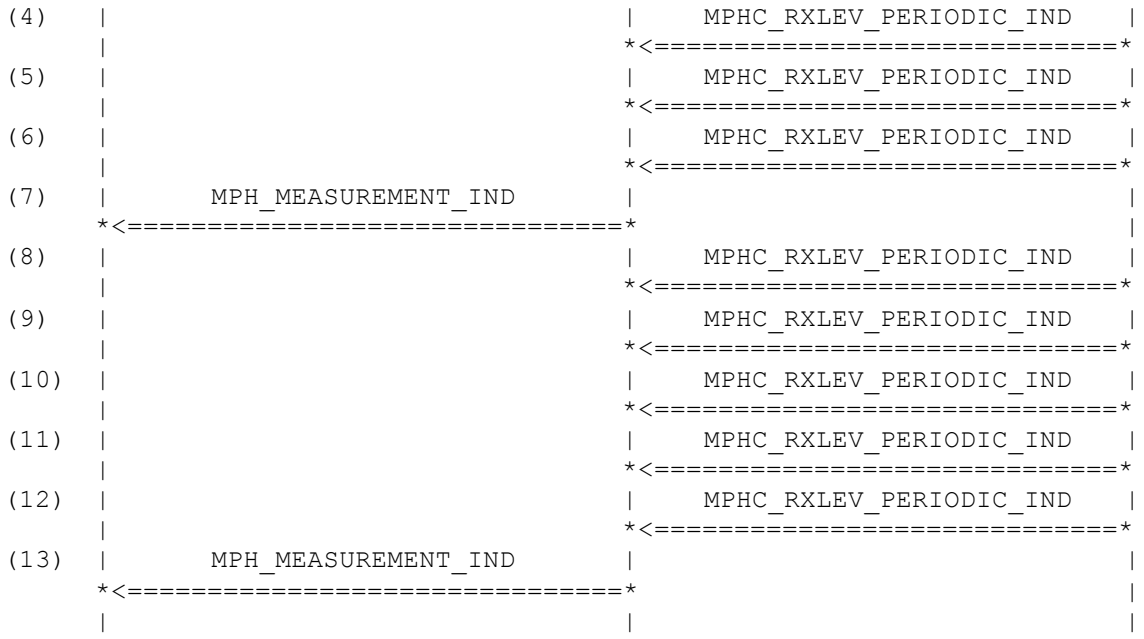
History:	08.10.99	MPA	Initial
	08.06.01	MSB	fn_offset in (9) corrected
	07.02.02	LG	changed value for ba_id

4.8.4 ALR033: Measurement Reporting, BS_PA_MFRMS = 4

Description: Measurement reporting for the serving cell is tested. The multiframe period is set to four multiframes. It is exspected that the initial report to RR is send after six reports of layer 1 and successive reports are send to RR after five reports. The number of TDMA frames between measurement reports to RR is 204 TDMA frames which is equal to four multiframes.

Preamble: ALR030C





Parametrization

Primitive	Parameter	Value
(1) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(2) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(3) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(4) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(5) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(6) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(7) MPH_MEASUREMENT_IND		
	arfcn	ARFCN_23

rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_1020
ncells	NOT_USED
gprs_sync	NOT_USED

(8) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(9) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(10) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(11) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(12) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(13) MPH_MEASUREMENT_IND

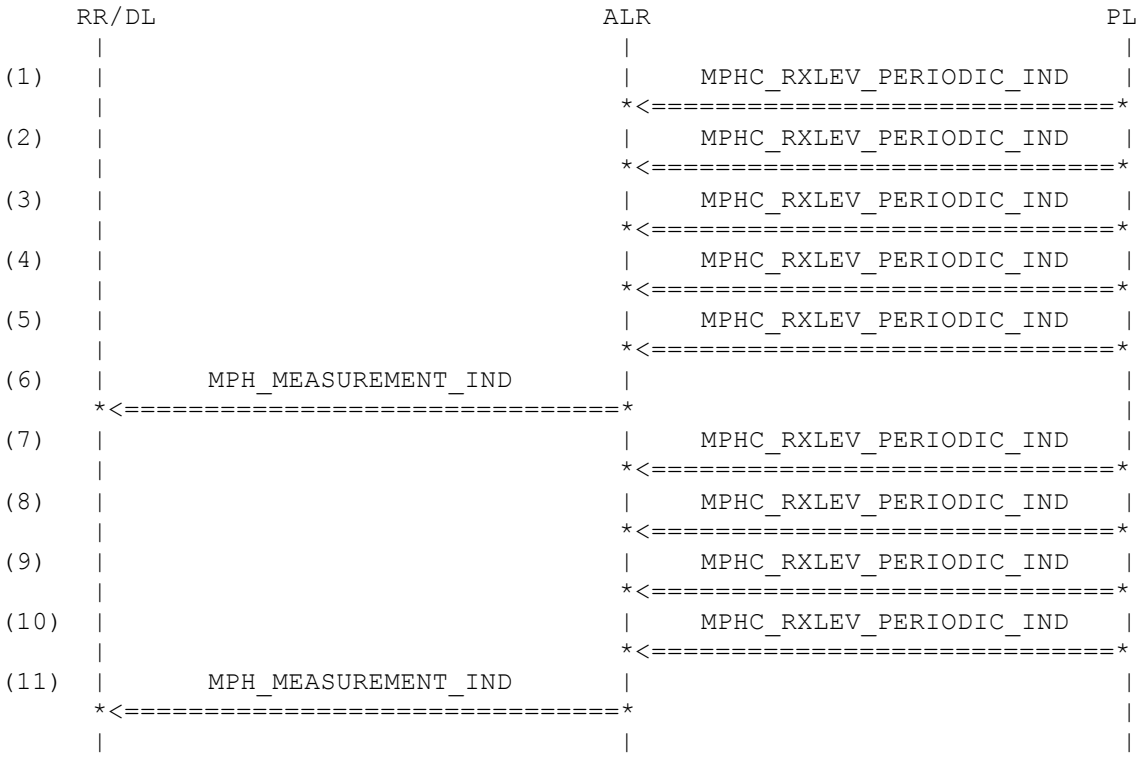
arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_204
ncells	NOT_USED
gprs_sync	NOT_USED

History:			
	08.10.99	MPA	Initial
	08.06.01	MSB	fn_offset in (7) corrected
	07.02.02	LG	changed value for ba_id

4.8.5 ALR034: Measurement Reporting, BS_PA_MFRMS = 5

Description: Measurement reporting for the serving cell is tested. The multiframe period is set to five multiframes. It is exspected that the initial report to RR is send after five reports of layer 1 and successive reports are send to RR after four reports. The number of TDMA frames between measurement reports to RR is 255 TDMA frames which is equal to five multiframes.

Preamble: ALR030D



Parametrization

Primitive	Parameter	Value
(1) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(2) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(3) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(4) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1

(5) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(6) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_1020
ncells	NOT_USED
gprs_sync	NOT_USED

(7) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(8) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(9) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(10) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(11) MPH_MEASUREMENT_IND

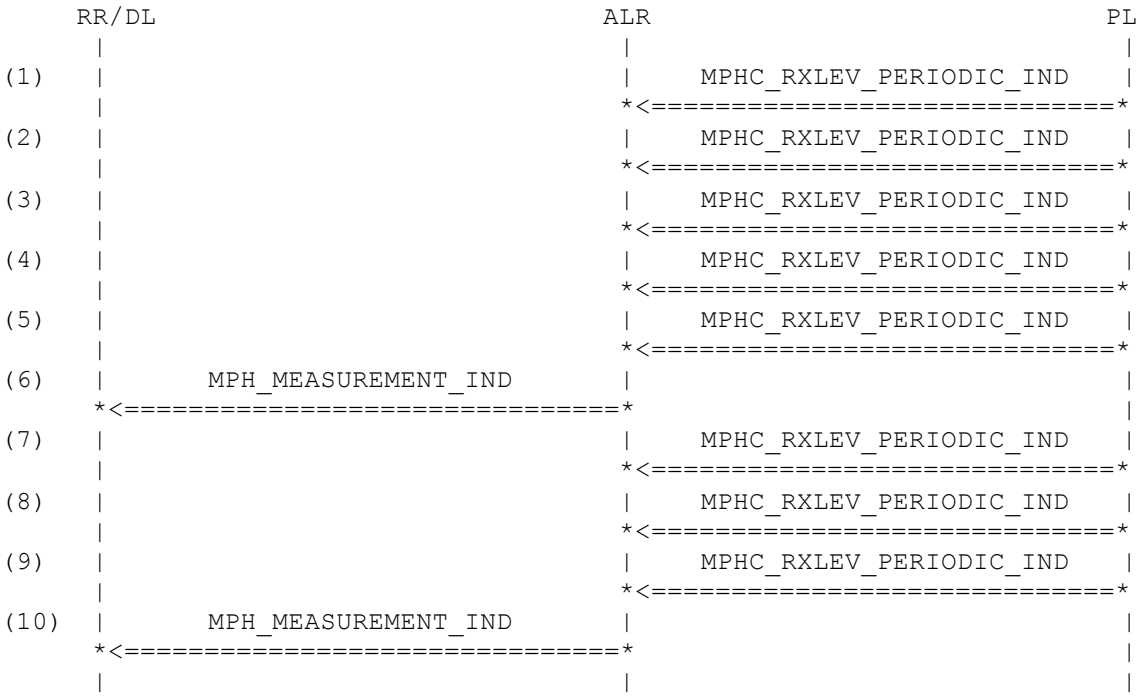
arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_255
ncells	NOT_USED
gprs_sync	NOT_USED

History:			
	08.10.99	MPA	Initial
	08.06.01	MSB	fn_offset in (6) corrected
	07.02.02	LG	changed value for ba_id

4.8.6 ALR035: Measurement Reporting, BS_PA_MFRMS = 6

Description: Measurement reporting for the serving cell is tested. The multiframe period is set to six multiframes. It is exspected that the initial report to RR is send after five reports of layer 1 and successive reports are send to RR after three reports. The number of TDMA frames between measurement reports to RR is 306 TDMA frames which is equal to six multiframes.

Preamble: ALR030E



Parametrization

Primitive	Parameter	Value
(1) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(2) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(3) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(4) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(5) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0

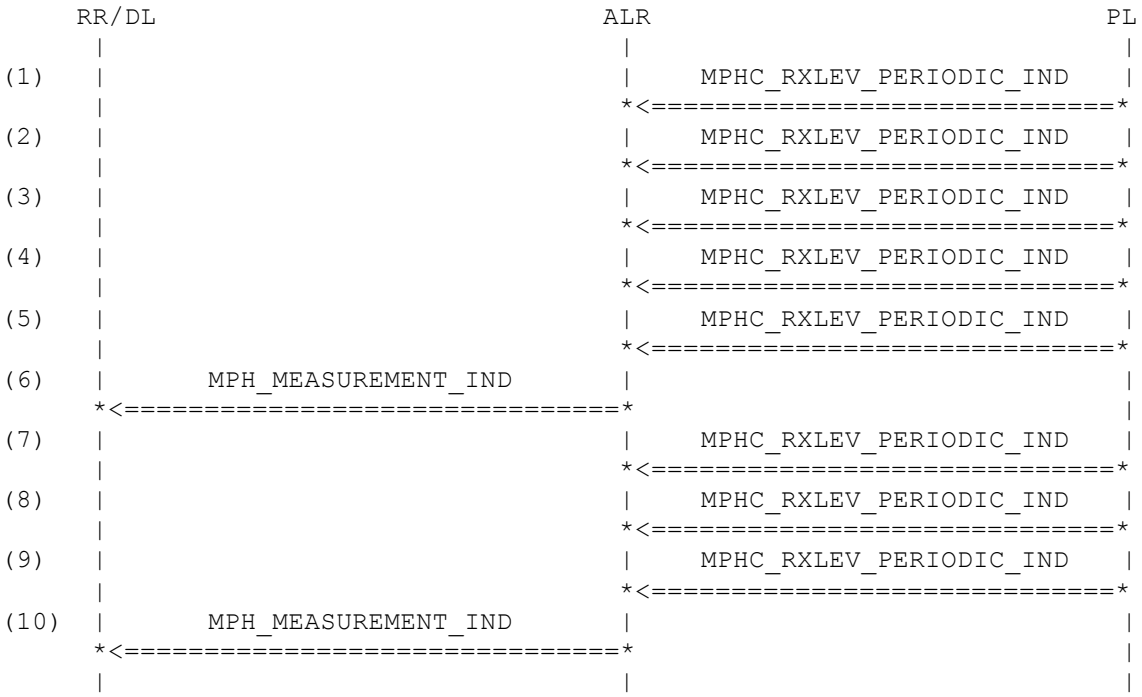
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(6) MPH_MEASUREMENT_IND		
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_918
	ncells	NOT_USED
	gprs_sync	NOT_USED
(7) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(8) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(9) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(10) MPH_MEASUREMENT_IND		
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NOT_USED
	gprs_sync	NOT_USED

History:			
	08.10.99	MPA	Initial
	08.06.01	MSB	fn_offset in (6) corrected
	07.02.02	LG	changed value for ba_id

4.8.7 ALR036: Measurement Reporting, BS_PA_MFRMS = 7

Description: Measurement reporting for the serving cell is tested. The multiframe period is set to seven multiframes. It is exspected that the initial report to RR is send after five reports of layer 1 and successive reports are send to RR after three reports. The number of TDMA frames between measurement reports to RR is 357 TDMA frames which is equal to seven multiframes.

Preamble: ALR030F



Parametrization

Primitive	Parameter	Value
(1) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(2) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(3) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(4) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(5) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(6) MPH_MEASUREMENT_IND		
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED

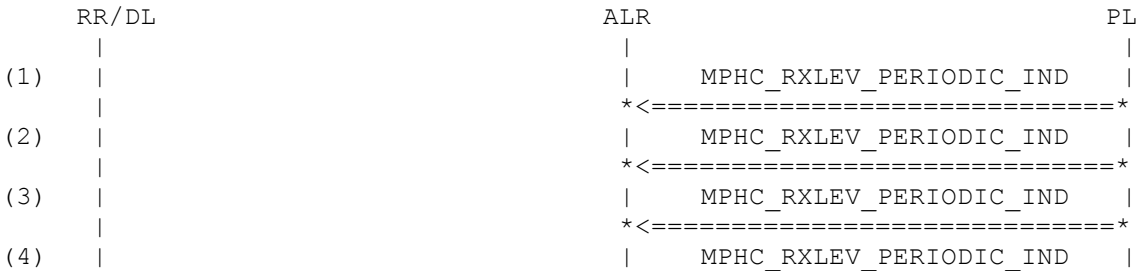
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_1071
	ncells	NOT_USED
	gprs_sync	NOT_USED
(7) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(8) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(9) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(10) MPH_MEASUREMENT_IND		
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_357
	ncells	NOT_USED
	gprs_sync	NOT_USED

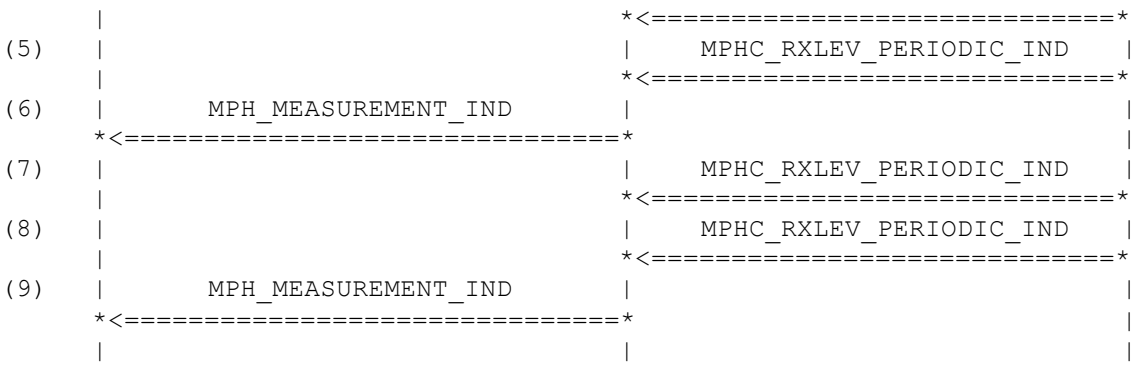
History:	08.10.99	MPA	Initial
	08.06.01	MSB	fn_offset in (6) corrected
	07.02.02	LG	changed value for ba_id

4.8.8 ALR037: Measurement Reporting, BS_PA_MFRMS = 8

Description: Measurement reporting for the serving cell is tested. The multiframe period is set to eight multiframes. It is exspected that the initial report to RR is send after five reports of layer 1 and successive reports are send to RR after two reports. The number of TDMA frames between measurement reports to RR is 408 TDMA frames which is equal to eight multiframes.

Preamble: ALR030G





Parametrization

Primitive	Parameter	Value
(1) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(2) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(3) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(4) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(5) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(6) MPH_MEASUREMENT_IND		
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_816
	ncells	NOT_USED
	gprs_sync	NOT_USED
(7) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0

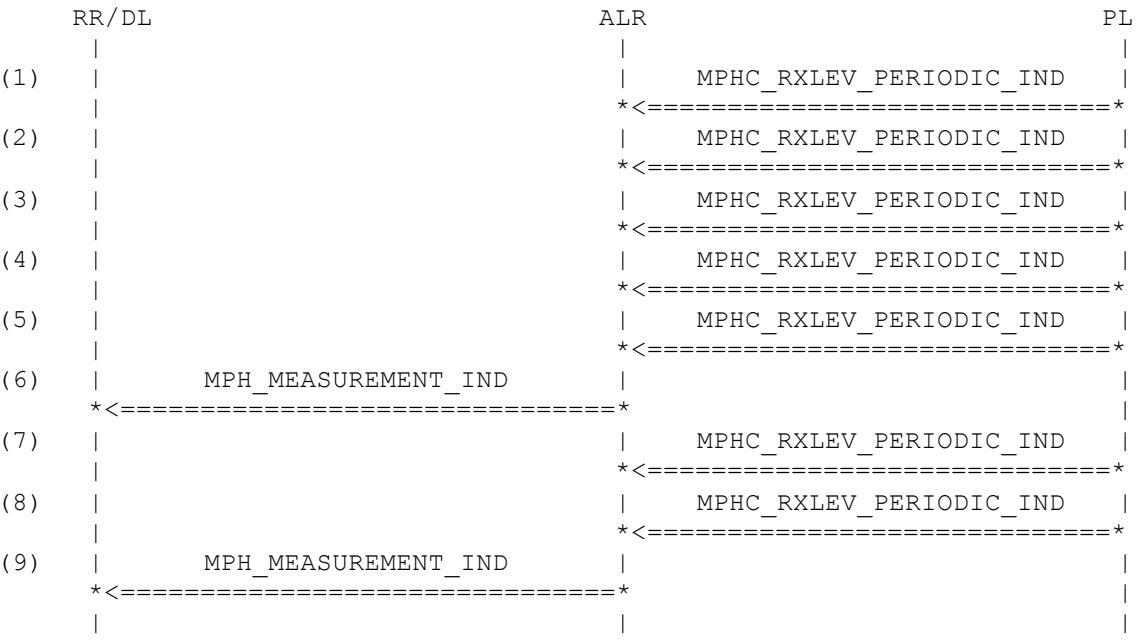
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(8) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(9) MPH_MEASUREMENT_IND		
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_408
	ncells	NOT_USED
	gprs_sync	NOT_USED

History:	08.10.99	MPA	Initial
	08.06.01	MSB	fn_offset in (6) corrected
	07.02.02	LG	changed value for ba_id

4.8.9 ALR038: Measurement Reporting, BS_PA_MFRMS = 9

Description: Measurement reporting for the serving cell is tested. The multiframe period is set to nine multiframes. It is exspected that the initial report to RR is send after five reports of layer 1 and successive reports are send to RR after two reports. The number of TDMA frames between measurement reports to RR is 459 TDMA frames which is equal to nine multiframes.

Preamble: ALR030H



Parametrization

Primitive	Parameter	Value

(1) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(2) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(3) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(4) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(5) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(6) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_918
ncells	NOT_USED
gprs_sync	NOT_USED

(7) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(8) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(9) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED

otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_459
ncells	NOT_USED
gprs_sync	NOT_USED

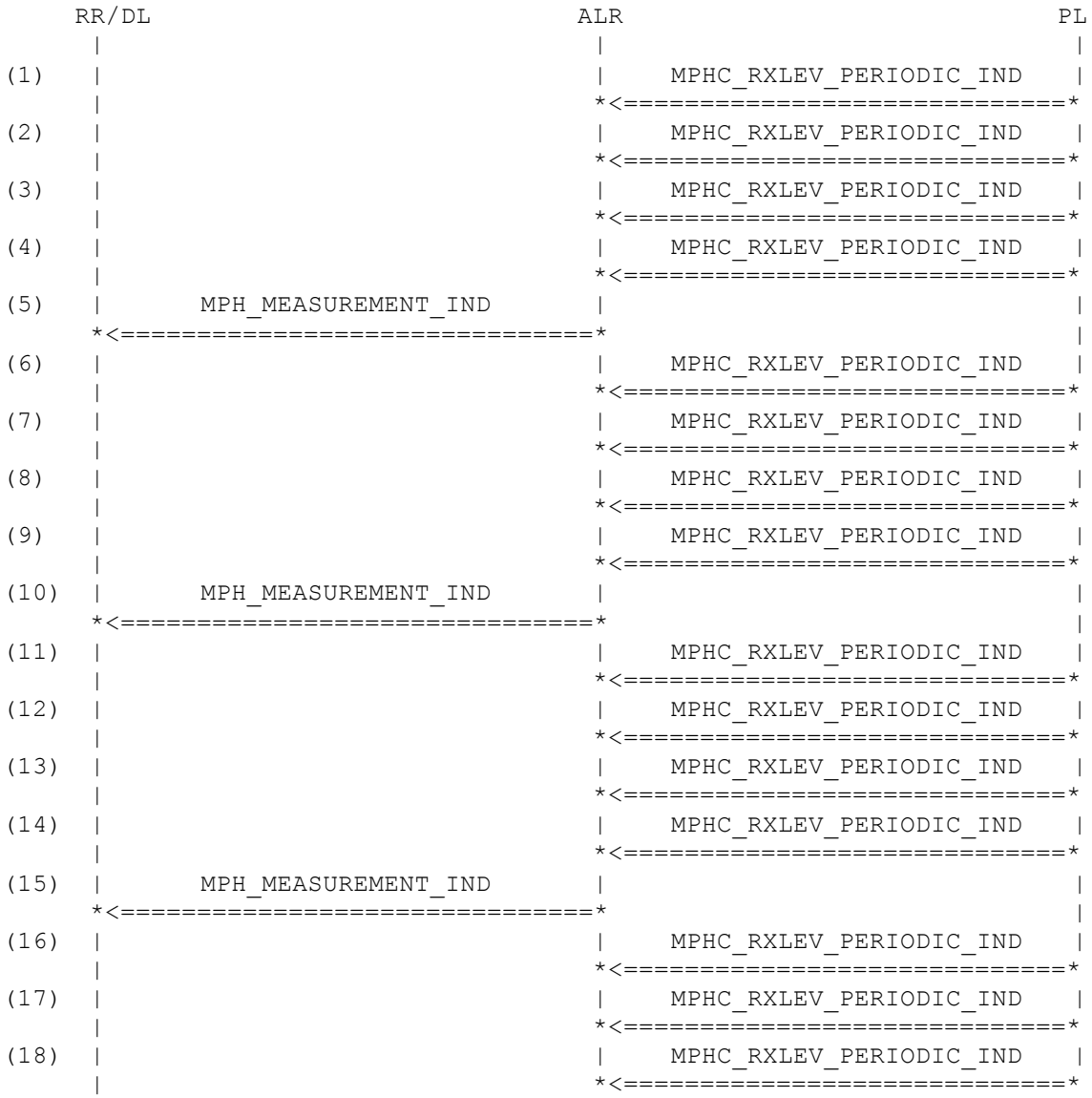
History:			
	08.10.99	MPA	Initial
	08.06.01	MSB	fn_offset in (6) corrected
	07.02.02	LG	changed value for ba_id

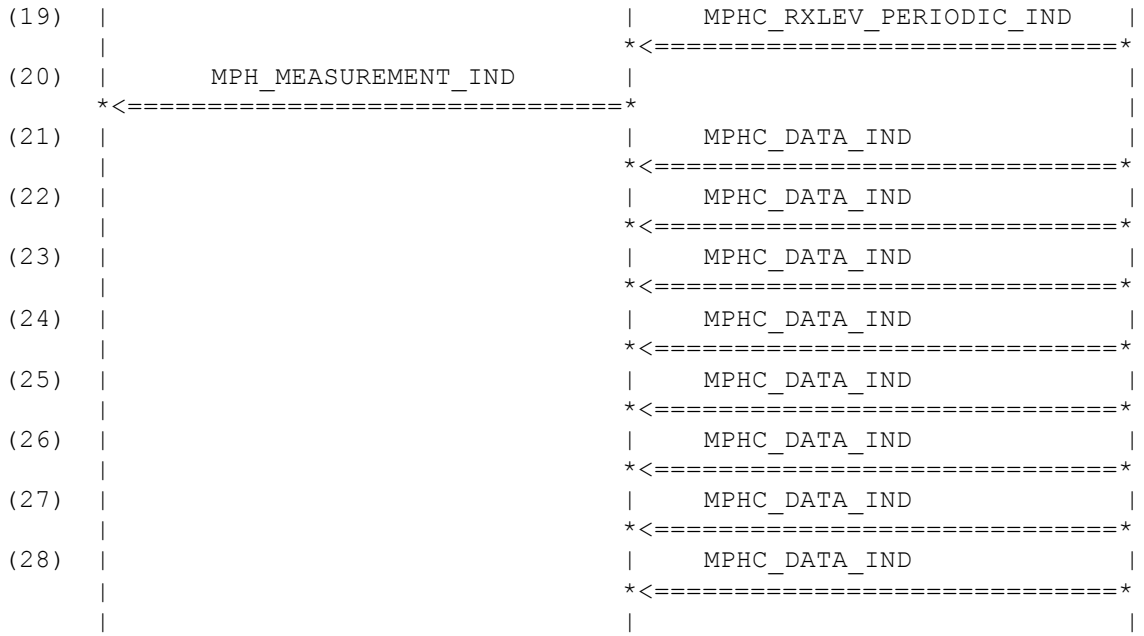
4.9 BCCH Reading

4.9.1 ALR039: BCCH Reading, BS_PA_MFRMS = 5

Description: For a multiframe period of five multiframes it is expected that all 25 reports from layer 1 reading of BCCH information is started. Nine reports are received in the preamble. All four reports a measurement report is send to RR.

Preamble: ALR034





Parametrization

Primitive	Parameter	Value
(1) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(2) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(3) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(4) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(5) MPH_MEASUREMENT_IND		
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_255
	ncells	NOT_USED
	gprs_sync	NOT_USED

(6) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(7) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(8) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(9) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(10) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_255
ncells	NOT_USED
gprs_sync	NOT_USED

(11) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(12) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(13) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(14) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(15) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_255
ncells	NOT_USED
gprs_sync	NOT_USED

(16) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(17) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(18) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(19) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(20) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_255
ncells	NOT_USED
gprs_sync	NOT_USED

(21) MPHC_DATA_IND

radio_freq	ARFCN_23
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_1
tc	TC_0
ccch_lev	NOT_USED
fn	FN_OFFSET_0

(22) MPHC_DATA_IND

radio_freq	ARFCN_23

l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_2
tc	TC_1
ccch_lev	NOT_USED
fn	FN_OFFSET_0

(23) MPHC_DATA_IND

radio_freq	ARFCN_23
l2_channel	L2_CHANNEL_NBCCH
error_flag	INVALID_BLOCK
l2_frame	L2_NO_CONTENT
tc	TC_2
ccch_lev	NOT_USED
fn	FN_OFFSET_0

(24) MPHC_DATA_IND

radio_freq	ARFCN_23
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_4
tc	TC_3
ccch_lev	NOT_USED
fn	FN_OFFSET_0

(25) MPHC_DATA_IND

radio_freq	ARFCN_23
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_4
ccch_lev	NOT_USED
fn	FN_OFFSET_0

(26) MPHC_DATA_IND

radio_freq	ARFCN_23
l2_channel	L2_CHANNEL_NBCCH
error_flag	INVALID_BLOCK
l2_frame	L2_NO_CONTENT
tc	TC_5
ccch_lev	NOT_USED
fn	FN_OFFSET_0

(27) MPHC_DATA_IND

radio_freq	ARFCN_23
l2_channel	L2_CHANNEL_NBCCH
error_flag	INVALID_BLOCK
l2_frame	L2_NO_CONTENT
tc	TC_6
ccch_lev	NOT_USED
fn	FN_OFFSET_0

(28) MPHC_DATA_IND

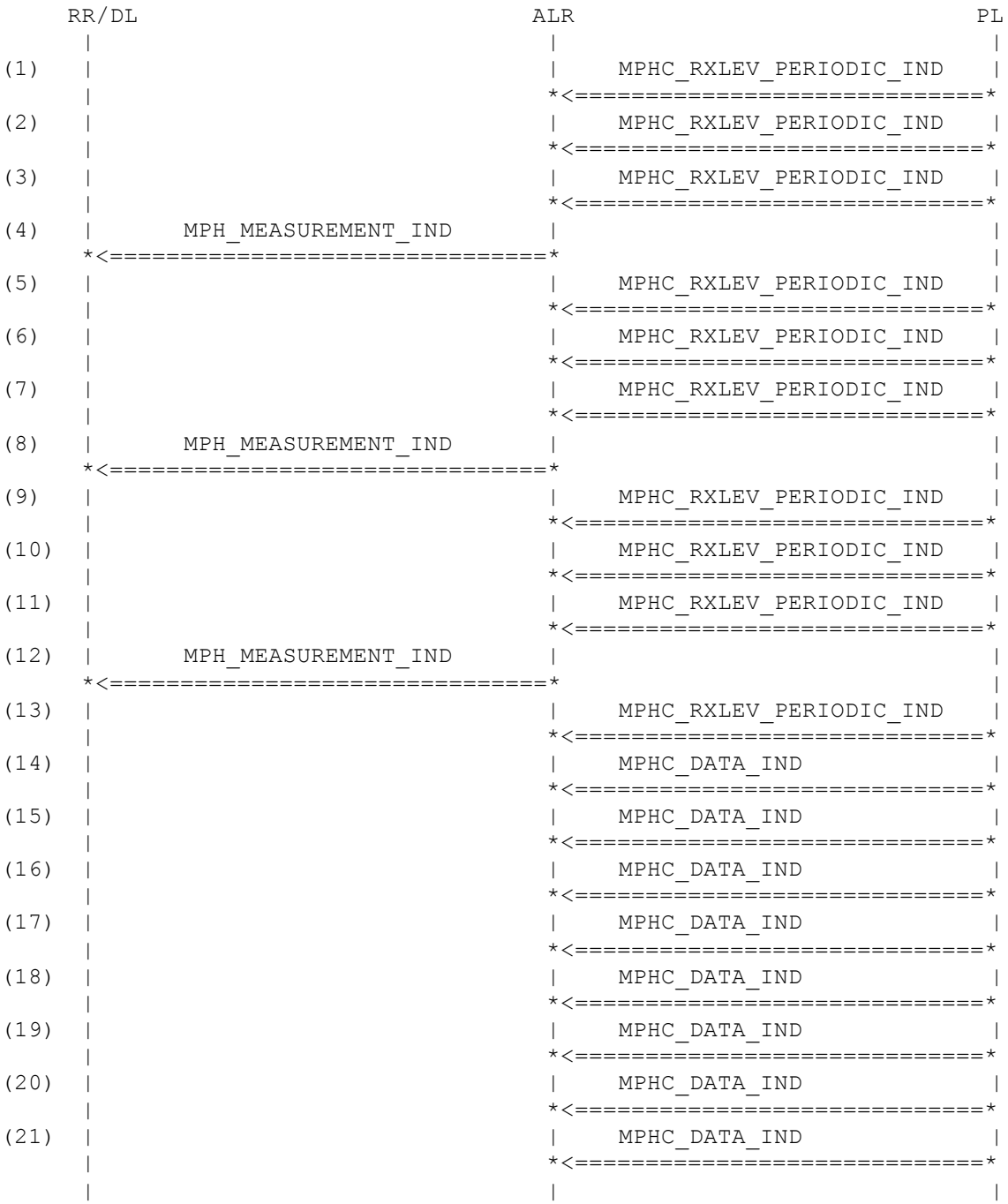
radio_freq	ARFCN_23
l2_channel	L2_CHANNEL_NBCCH
error_flag	INVALID_BLOCK
l2_frame	L2_NO_CONTENT
tc	TC_7
ccch_lev	NOT_USED
fn	FN_OFFSET_0

History:	14.10.99	MPA	Initial
	07.02.02	LG	changed value for ba_id

4.9.2 ALR040: BCCH Reading, BS_PA_MFRMS = 7

Description: For a multiframe period of seven multiframes it is expected that all 18 reports from layer 1 reading of BCCH information is started. Eight reports are received in the preamble. All three reports a measurement report is send to RR.

Preamble: ALR036



Parametrization

Primitive	Parameter	Value
(1) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0

	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(2) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(3) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(4) MPH_MEASUREMENT_IND		
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_357
	ncells	NOT_USED
	gprs_sync	NOT_USED
(5) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(6) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(7) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(8) MPH_MEASUREMENT_IND		
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_357
	ncells	NOT_USED
	gprs_sync	NOT_USED
(9) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0

	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(10) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(11) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(12) MPH_MEASUREMENT_IND		
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_357
	ncells	NOT_USED
	gprs_sync	NOT_USED
(13) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(14) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_1
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(15) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_2
	tc	TC_1
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(16) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	INVALID_BLOCK
	l2_frame	L2_NO_CONTENT
	tc	TC_2
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0

(17) MPHC_DATA_IND

radio_freq	ARFCN_23
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_4
tc	TC_3
ccch_lev	NOT_USED
fn	FN_OFFSET_0

(18) MPHC_DATA_IND

radio_freq	ARFCN_23
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_4
ccch_lev	NOT_USED
fn	FN_OFFSET_0

(19) MPHC_DATA_IND

radio_freq	ARFCN_23
l2_channel	L2_CHANNEL_NBCCH
error_flag	INVALID_BLOCK
l2_frame	L2_NO_CONTENT
tc	TC_5
ccch_lev	NOT_USED
fn	FN_OFFSET_0

(20) MPHC_DATA_IND

radio_freq	ARFCN_23
l2_channel	L2_CHANNEL_NBCCH
error_flag	INVALID_BLOCK
l2_frame	L2_NO_CONTENT
tc	TC_6
ccch_lev	NOT_USED
fn	FN_OFFSET_0

(21) MPHC_DATA_IND

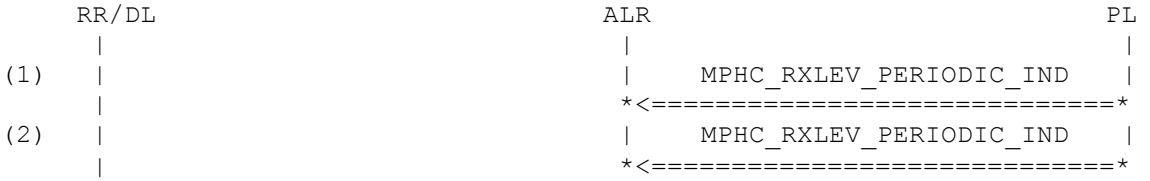
radio_freq	ARFCN_23
l2_channel	L2_CHANNEL_NBCCH
error_flag	INVALID_BLOCK
l2_frame	L2_NO_CONTENT
tc	TC_7
ccch_lev	NOT_USED
fn	FN_OFFSET_0

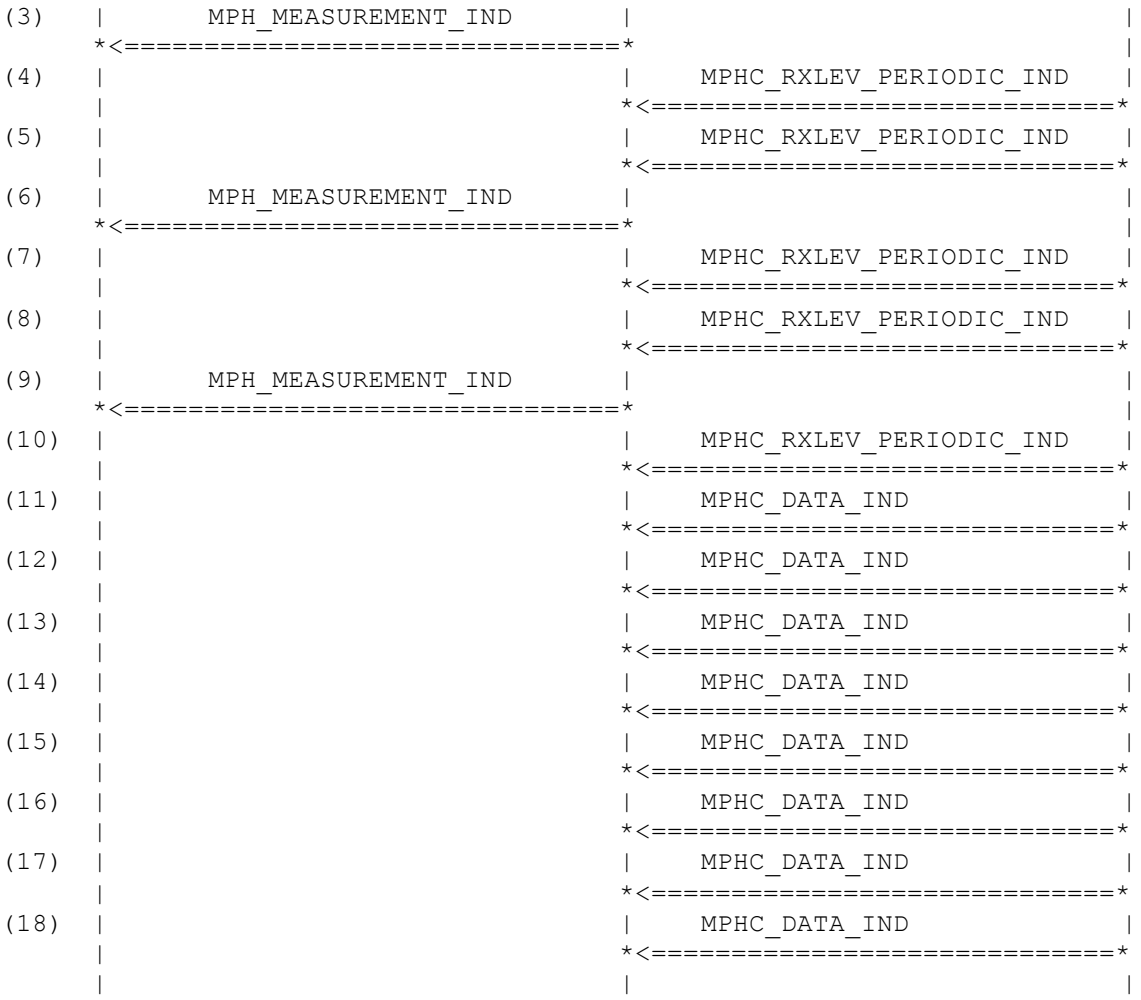
History:			
	14.10.99	MPA	Initial
	07.02.02	LG	changed value for ba_id

4.9.3 ALR041: BCCH Reading, BS_PA_MFRMS = 9

Description: For a multiframe period of nine multiframes it is expected that all 14 reports from layer 1 reading of BCCH information is started. Seven reports are received in the preamble. All two reports a measurement report is send to RR.

Preamble: ALR038





Parametrization

Primitive	Parameter	Value
(1) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(2) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(3) MPH_MEASUREMENT_IND		
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_459
	ncells	NOT_USED
	gprs_sync	NOT_USED

(4) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(5) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(6) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_459
ncells	NOT_USED
gprs_sync	NOT_USED

(7) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(8) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(9) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_459
ncells	NOT_USED
gprs_sync	NOT_USED

(10) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(11) MPHC_DATA_IND

radio_freq	ARFCN_23
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_1

	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(12) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_2
	tc	TC_1
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(13) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	INVALID_BLOCK
	l2_frame	L2_NO_CONTENT
	tc	TC_2
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(14) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_4
	tc	TC_3
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(15) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_3
	tc	TC_4
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(16) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	INVALID_BLOCK
	l2_frame	L2_NO_CONTENT
	tc	TC_5
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(17) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	INVALID_BLOCK
	l2_frame	L2_NO_CONTENT
	tc	TC_6
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(18) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_NBCCH

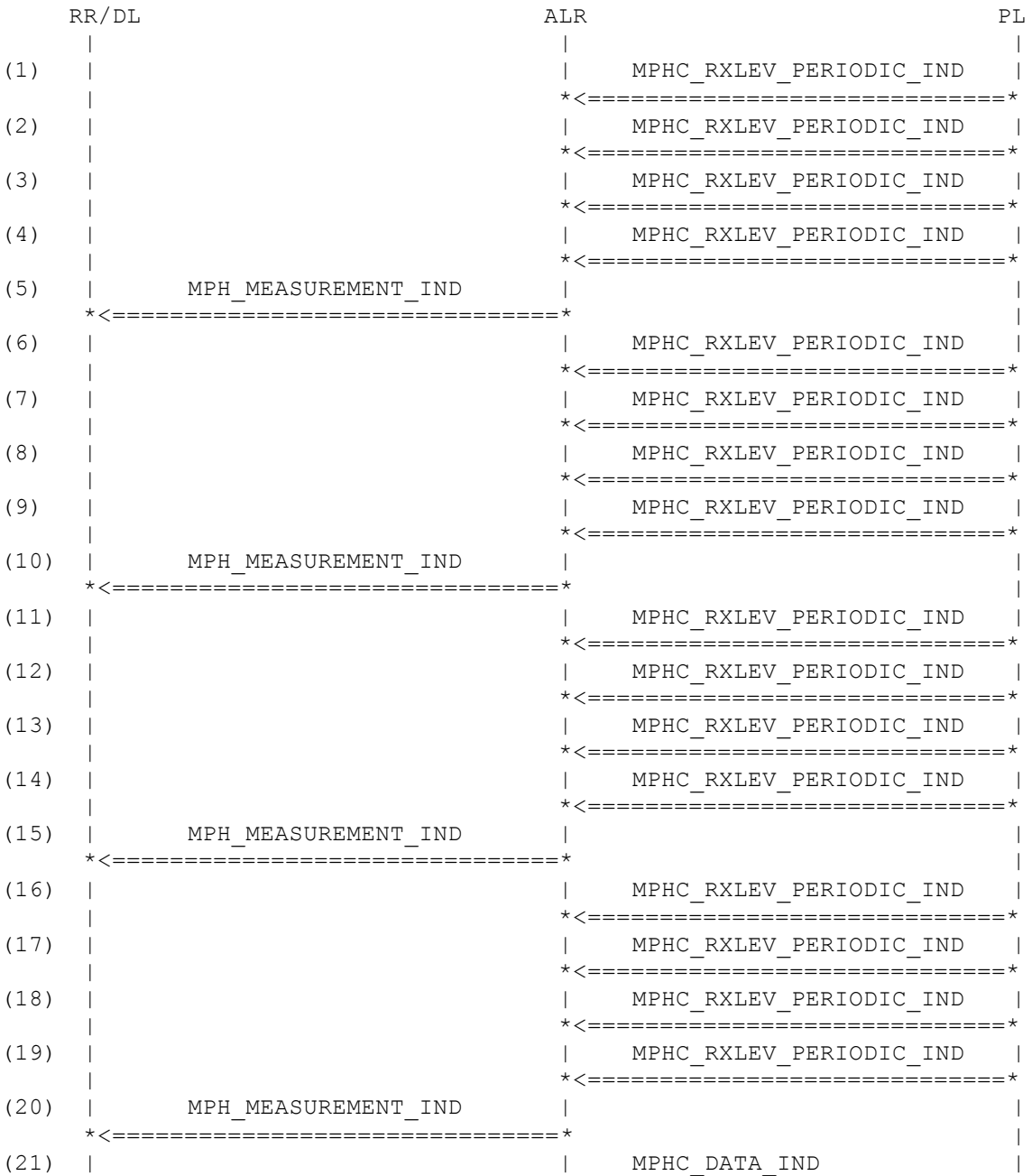
error_flag	INVALID_BLOCK
l2_frame	L2_NO_CONTENT
tc	TC_7
ccch_lev	NOT_USED
fn	FN_OFFSET_0

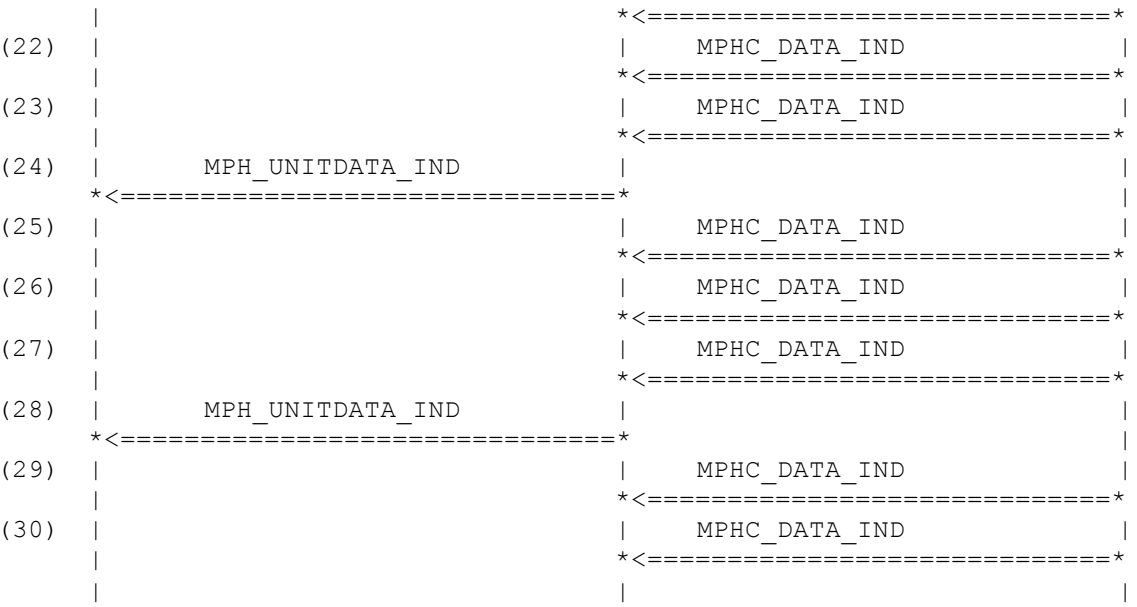
History:			
	14.10.99	MPA	Initial
	07.02.02	LG	changed value for ba_id

4.9.4 ALR082: BCCH Reading, Changed Sys Infos

Description: For a multiframe period of five multiframes it is expected that all 25 reports from layer 1 reading of BCCH information is started. Nine reports are received in the preamble. All four reports a measurement report is send to RR. Changed System Information Messages are forwarded to RR.

Preamble: ALR034





Parametrization

Primitive	Parameter	Value
(1) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(2) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(3) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(4) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_NO_CONTENT
	nbr_of_carriers	CHANNELS_0
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(5) MPH_MEASUREMENT_IND		
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_255
	ncells	NOT_USED
	gprs_sync	NOT_USED

(6) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(7) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(8) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(9) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(10) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_255
ncells	NOT_USED
gprs_sync	NOT_USED

(11) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(12) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(13) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(14) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(15) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_255
ncells	NOT_USED
gprs_sync	NOT_USED

(16) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(17) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(18) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(19) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_NO_CONTENT
nbr_of_carriers	CHANNELS_0
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(20) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_255
ncells	NOT_USED
gprs_sync	NOT_USED

(21) MPHC_DATA_IND

radio_freq	ARFCN_23
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_1
tc	TC_0
ccch_lev	NOT_USED
fn	FN_OFFSET_0

(22) MPHC_DATA_IND

radio_freq	ARFCN_23

l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_2
tc	TC_1
ccch_lev	NOT_USED
fn	FN_OFFSET_0

(23) MPHC_DATA_IND

radio_freq	ARFCN_23
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_1_NEW
tc	TC_0
ccch_lev	NOT_USED
fn	FN_OFFSET_0

(24) MPH_UNITDATA_IND

arfcn	ARFCN_23
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_1
ti	TI_0
cell_chan_desc	CELL_CHAN_DESC_1_NEW
rach_ctrl	RACH_CTRL_1
}	

(25) MPHC_DATA_IND

radio_freq	ARFCN_23
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_4
tc	TC_3
ccch_lev	NOT_USED
fn	FN_OFFSET_0

(26) MPHC_DATA_IND

radio_freq	ARFCN_23
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_4
ccch_lev	NOT_USED
fn	FN_OFFSET_0

(27) MPHC_DATA_IND

radio_freq	ARFCN_23
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_1
tc	TC_0
ccch_lev	NOT_USED
fn	FN_OFFSET_0

(28) MPH_UNITDATA_IND

arfcn	ARFCN_23
fn	NOT_USED
sdu	
{	

	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_1
	ti	TI_0
	cell_chan_desc	CELL_CHAN_DESC_1
	rach_ctrl	RACH_CTRL_1
	}	

(29) MPHC_DATA_IND

radio_freq	ARFCN_23
l2_channel	L2_CHANNEL_NBCCH
error_flag	INVALID_BLOCK
l2_frame	L2_NO_CONTENT
tc	TC_6
ccch_lev	NOT_USED
fn	FN_OFFSET_0

(30) MPHC_DATA_IND

radio_freq	ARFCN_23
l2_channel	L2_CHANNEL_NBCCH
error_flag	INVALID_BLOCK
l2_frame	L2_NO_CONTENT
tc	TC_7
ccch_lev	NOT_USED
fn	FN_OFFSET_0

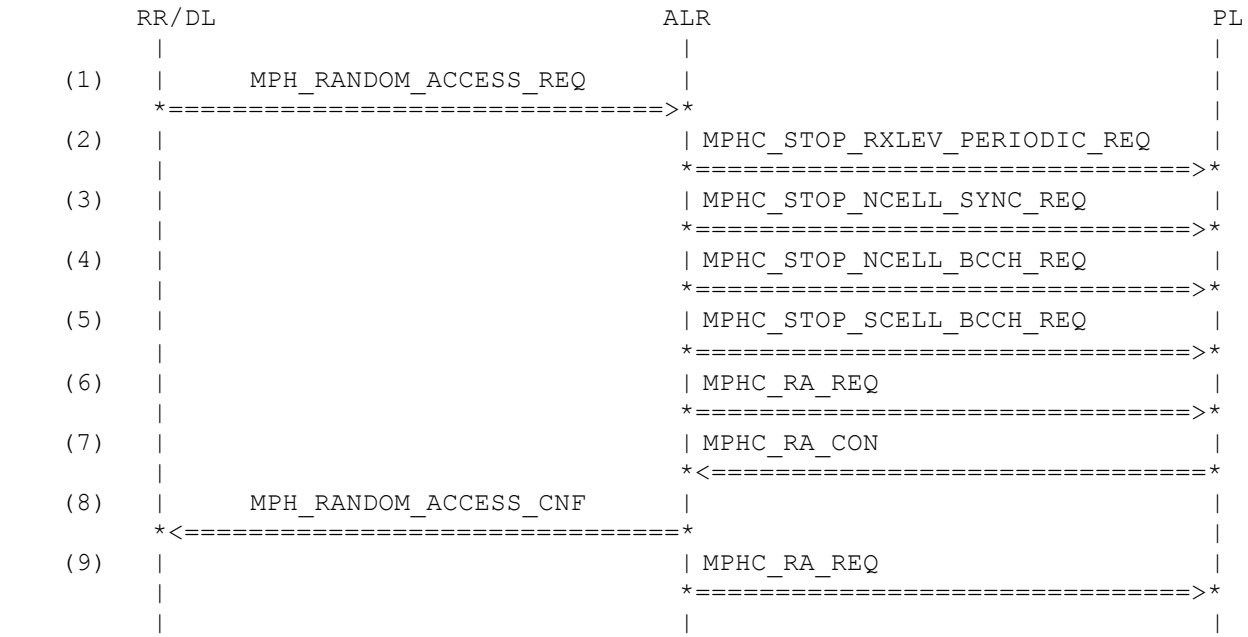
History:	14.10.99	MPA	Initial
	07.02.02	LG	changed value for ba_id

4.10 Connection Establishment

4.10.1 ALR055: Start of Sending Channel Request Messages (GSM 900)

Description: RR starts the sending of channel request messages. Idle mode is stopped and the access mode is started. There is one retransmission configured.

Preamble: ALR013



Parametrization

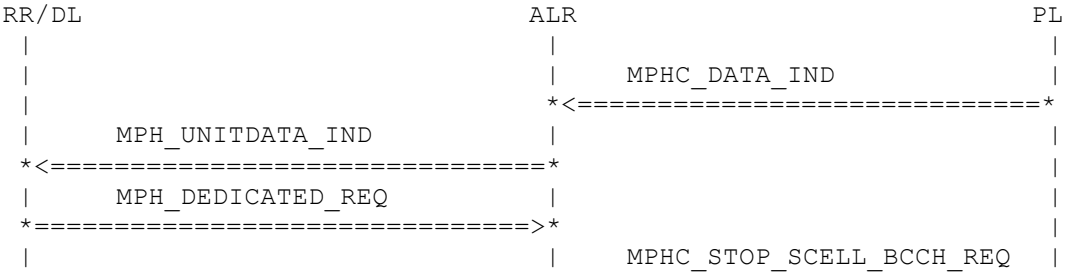
Primitive	Parameter	Value
(1) MPH_RANDOM_ACCESS_REQ		
	send_mode	TWO_BURSTS
(2) MPHC_STOP_RXLEV_PERIODIC_REQ		
	param	NOT_USED
(3) MPHC_STOP_NCELL_SYNC_REQ		
	radio_freq_array_size	STOP_SIZE_0
	radio_freq_array	STOP_ARRAY_EMPTY
(4) MPHC_STOP_NCELL_BCCH_REQ		
	radio_freq_array_size	STOP_SIZE_0
	radio_freq_array	STOP_ARRAY_EMPTY
(5) MPHC_STOP_SCELL_BCCH_REQ		
	param	NOT_USED
(6) MPHC_RA_REQ		
	txpwr	POWER_12
	rand	RAND_BURST_1
	channel_request	CHANNEL_REQUEST_1
	powerclass_gsm	POWER_CLASS_5
	powerclass_dcs	NOT_USED
(7) MPHC_RA_CON		
	fn	FN_BURST_1
	channel_request	CHANNEL_REQUEST_1
(8) MPH_RANDOM_ACCESS_CNF		
	frame_no	T123_BURST_1
(9) MPHC_RA_REQ		
	txpwr	POWER_12
	rand	RAND_BURST_2
	channel_request	CHANNEL_REQUEST_2
	powerclass_gsm	POWER_CLASS_5
	powerclass_dcs	NOT_USED

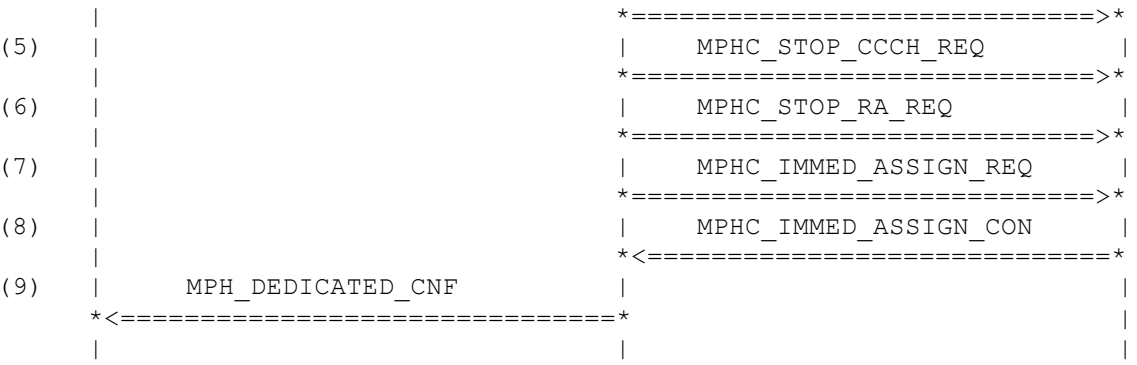
History:	10.11.99	LE	Initial
	07.02.02	LG	removed MPHC_START_CCCH_REQ (ALR-FIX-4650)

4.10.2 ALR056: Immediate Assignment for the Mobile Station

Description: An immediate assignment for the mobile station receives. Configuration of the dedicated mode is processed by RR. This stops the access link mode.

Preamble: ALR055





Parametrization

	Primitive	Parameter	Value
(1)	MPHC_DATA_IND		
		radio_freq	ARFCN_23
		l2_channel	L2_CHANNEL_CCCH
		error_flag	VALID_BLOCK
		l2_frame	L2_IMM_ASS_HOP
		tc	TC_0
		ccch_lev	NOT_USED
		fn	FN_OFFSET_0
(2)	MPH_UNITDATA_IND		
		arfcn	ARFCN_23
		fn	NOT_USED
		sdu	
		{	
		component	RR
		direction	DOWNLINK
		pd	D_IMM_ASSIGN
		ti	TI_0
		tma	TMA_0
		dl	DL_0
		d_t	D_T_DED
		page_mode	PAGE_MODE_1
		chan_desc	CHAN_DESC_1
		pck_chan_desc	NOT_USED
		req_ref	REQ_REF_1
		time_advance	TIME_ADVANCE_1
		mob_alloc	MOB_ALLOC_1
		}	
(3)	MPH_DEDICATED_REQ		
		mod	MODE_IMM_ASSIGN
		start	STARTING_TIME
		ch_type	CH_TYPE_HOP
		ch_type2	CH_TYPE2
		arfcn	ARFCN_23
		bsic	BSIC_1
		ho_param	HO_PARAM
		tr_para	TR_PARAM
		ciph	CIPH_PARAM
		amr_conf	NOT_USED
(4)	MPHC_STOP_SCELL_BCCH_REQ		
		param	NOT_USED
(5)	MPHC_STOP_CCCH_REQ		
		param	NOT_USED

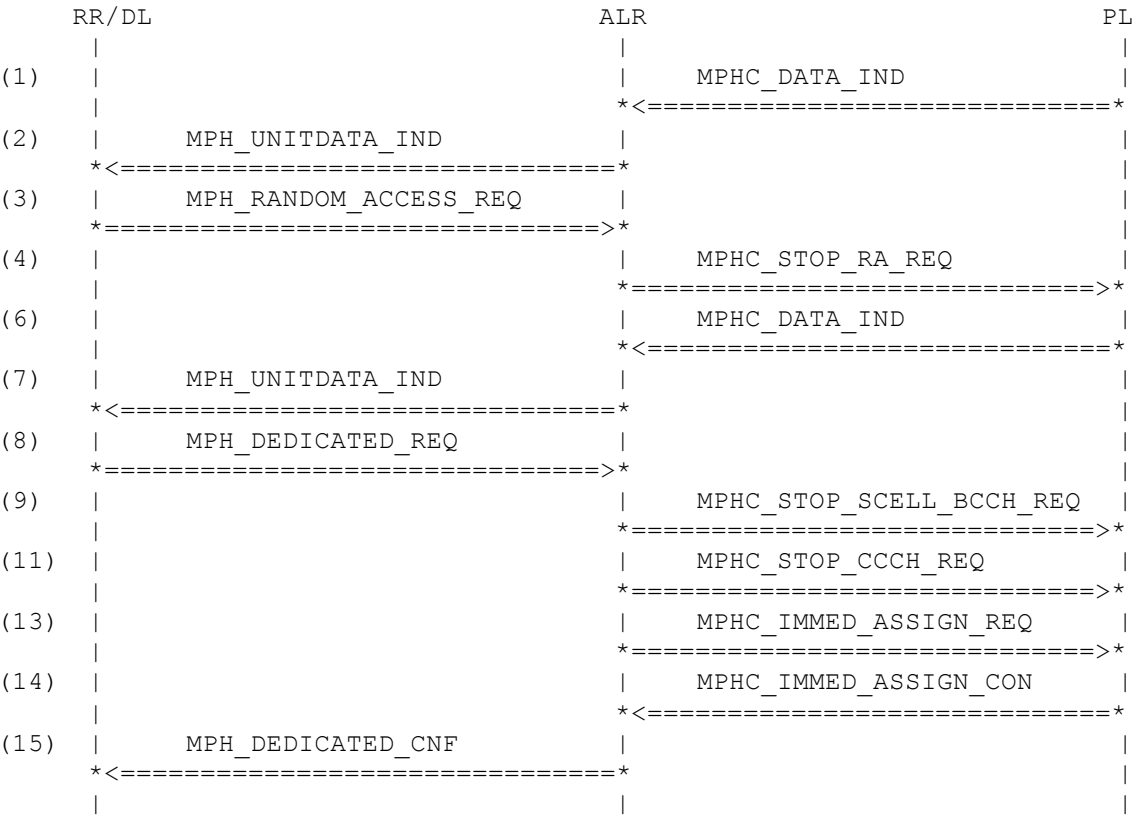
(6) MPHC_STOP_RA_REQ		
	param	NOT_USED
(7) MPHC_IMMED_ASSIGN_REQ		
	channel_desc	CHANNEL_DESC_1
	timing_advance	TIMING_ADVANCE
	frequency_list	FREQ_LIST
	starting_time	S_TIME_MPHC
	frequency_list_bef_sti	NOT_USED
	maio_bef_sti	NOT_USED
	dtx_allowed	NOT_USED
	bcch_allocation	NOT_USED
	ba_id	NOT_USED
	pwrc	NOT_USED
(8) MPHC_IMMED_ASSIGN_CON		
	param	NOT_USED
(9) MPH_DEDICATED_CNF		
	dedi_res	DEDI_RES_OK

History:	10.11.99	LE Initial
	18.Feb.02	OT Adaptation for AMR

4.10.3 ALR057: Immediate Assignment Reject for the Mobile Station

Description: An immediate assignment reject for the mobile station receives. Sending of channel request bursts is stopped. The mobile station listen to the downlink CCCH. Thereafter an immediate assignmment message receives.

Preamble: ALR055



Parametrization

Primitive	Parameter	Value

(1) MPHC_DATA_IND

radio_freq	ARFCN_23
l2_channel	L2_CHANNEL_CCCH
error_flag	VALID_BLOCK
l2_frame	L2_IMM_ASS_REJ
tc	TC_0
ccch_lev	NOT_USED
fn	FN_OFFSET_0

(2) MPH_UNITDATA_IND

arfcn	ARFCN_23
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_IMM_ASSIGN
ti	TI_0
tma	TMA_0
dl	DL_0
d_t	D_T_DED
page_mode	PAGE_MODE_1
chan_desc	CHAN_DESC_2
pck_chan_desc	NOT_USED
req_ref	REQ_REF_1
time_advance	TIME_ADVANCE_2
mob_alloc	MOB_ALLOC_1
}	

(3) MPH_RANDOM_ACCESS_REQ

send_mode	STOP_BURSTS

(4) MPHC_STOP_RA_REQ

param	NOT_USED

(5) MPHC_DATA_IND

radio_freq	ARFCN_23
l2_channel	L2_CHANNEL_CCCH
error_flag	VALID_BLOCK
l2_frame	L2_IMM_ASS
tc	TC_0
ccch_lev	NOT_USED
fn	FN_OFFSET_0

(6) MPH_UNITDATA_IND

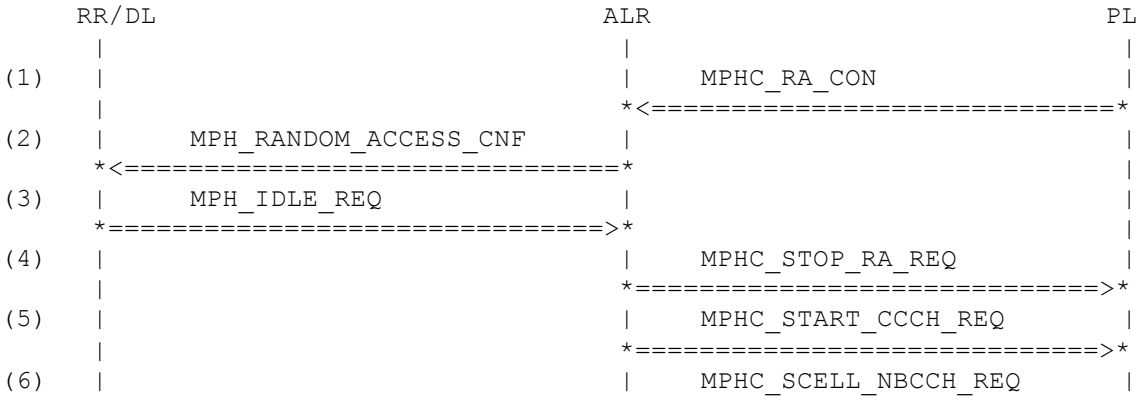
arfcn	ARFCN_23
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_IMM_ASSIGN
ti	TI_0
tma	TMA_0
dl	DL_0
d_t	D_T_DED
page_mode	PAGE_MODE_1
chan_desc	CHAN_DESC_2
pck_chan_desc	NOT_USED
req_ref	REQ_REF_1
time_advance	TIME_ADVANCE_2

	mob_alloc	MOB_ALLOC_1
	}	
(7) MPH_DEDICATED_REQ		
	mod	MODE_IMM_ASSIGN
	start	STARTING_TIME
	ch_type	CH_TYPE_HOP
	ch_type2	CH_TYPE2
	arfcn	ARFCN_23
	bsic	BSIC_1
	ho_param	HO_PARAM
	tr_para	TR_PARAM
	ciph	CIPH_PARAM
	amr_conf	NOT_USED
(8) MPHC_STOP_SCELL_BCCH_REQ		
	param	NOT_USED
(9) MPHC_STOP_CCCH_REQ		
	param	NOT_USED
(10) MPHC_IMMED_ASSIGN_REQ		
	channel_desc	CHANNEL_DESC_1
	timing_advance	TIMING_ADVANCE
	frequency_list	FREQ_LIST
	starting_time	S_TIME_MPHC
	frequency_list_bef_sti	NOT_USED
	maio_bef_sti	NOT_USED
	dtx_allowed	NOT_USED
	bcch_allocation	NOT_USED
	ba_id	NOT_USED
	pwrc	NOT_USED
(11) MPHC_IMMED_ASSIGN_CON		
	param	NOT_USED
(12) MPH_DEDICATED_CNF		
	dedi_res	DEDI_RES_OK

History: 10.11.99 LE Initial
26-Feb-02 OT Adaptations for AMR integration

4.10.4 ALR058: T3126 Expiry, Back to Idle Mode

Description: After timeout of T3126 the mobile station goes back to idle mode.
Preamble: ALR055



Parametrization

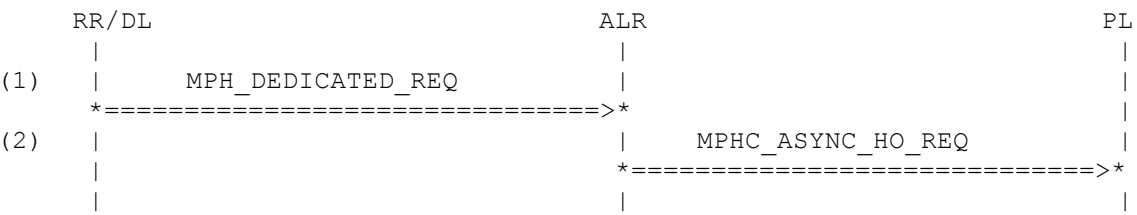
Primitive	Parameter	Value
(1) MPHC_RA_CON		
	fn	FN_BURST_1
	channel_request	CHANNEL_REQUEST_1
(2) MPH_RANDOM_ACCESS_CNF		
	frame_no	T123_BURST_1
(3) MPH_IDLE_REQ		
	mod	NOT_USED
	arfcn	ARFCN_23
	ext_bcch	NOT_USED
	comb_ccch	COMB_CCCH_NOT_COMB
	tn	TN_0
	dlt	DLT_10
	pg	PG_20
	bs_ag_blocks_res	BS_AG_BLKS_RES_3
	bs_pa_mfrms	BS_PA_MFRMS_6
	power	POWER_12
	ncc_permitted	NOT_PRESENT_8BIT
	reorg_only	NOT_USED
(4) MPHC_STOP_RA_REQ		
	param	NOT_USED
(5) MPHC_START_CCCH_REQ		
	bs_pa_mfrms	BS_PA_MFRMS_8
	bs_ag_blks_res	BS_AG_BLKS_RES_3
	bcch_combined	COMB_CCCH_NOT_COMB
	ccch_group	CCCH_GROUP_0
	page_group	PG_20
	page_block_index	PBI_2
	page_mode	PGM_REORG
(6) MPHC_SCELL_NBCCH_REQ		
	schedule_array_size	SCHED_SIZE_1
	schedule_array	NOT_USED

History: 10.11.99 LE Initial

4.11 Handover & Assignment

4.11.1 ALR150: Non-synchronized Handover

Description: A non-synchronized handover for the mobile station is configured without starting time.
Preamble: ALR056



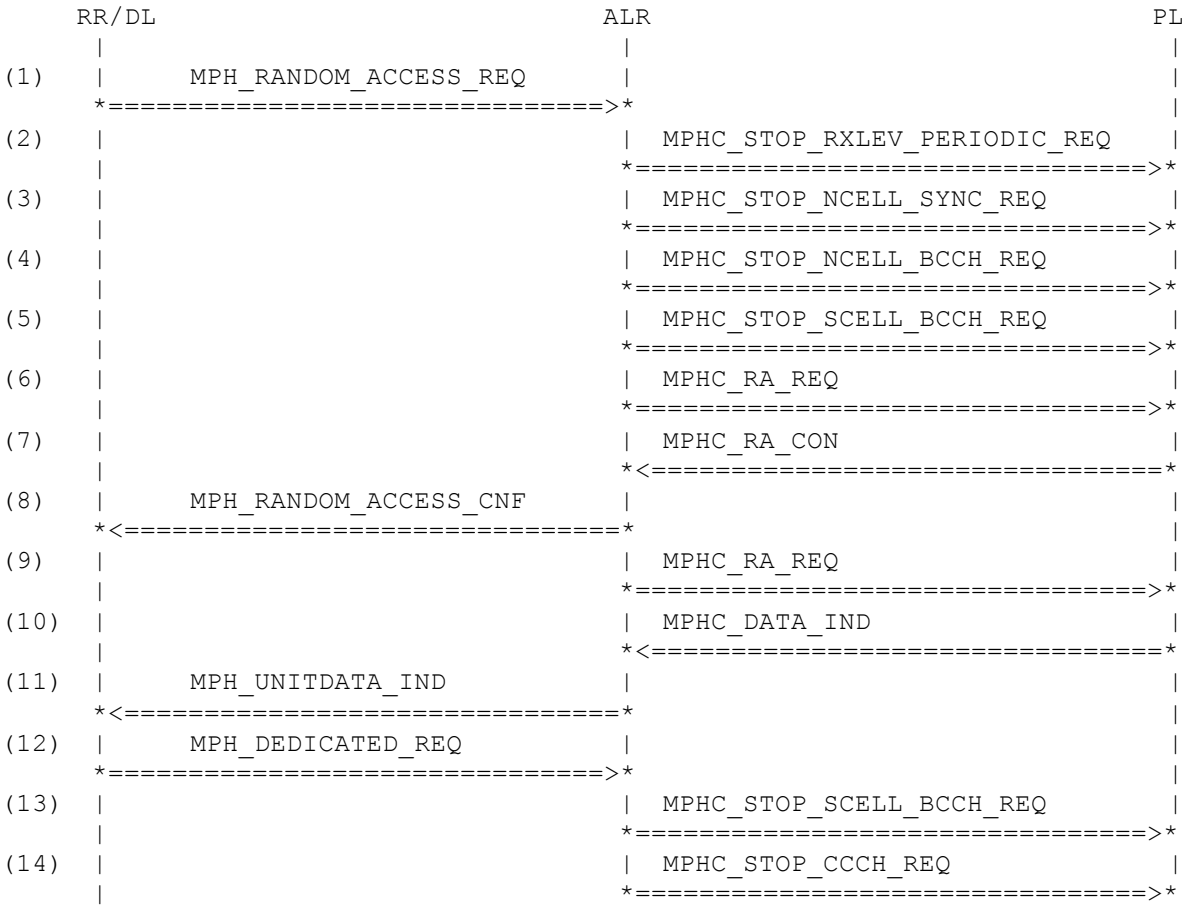
Parametrization

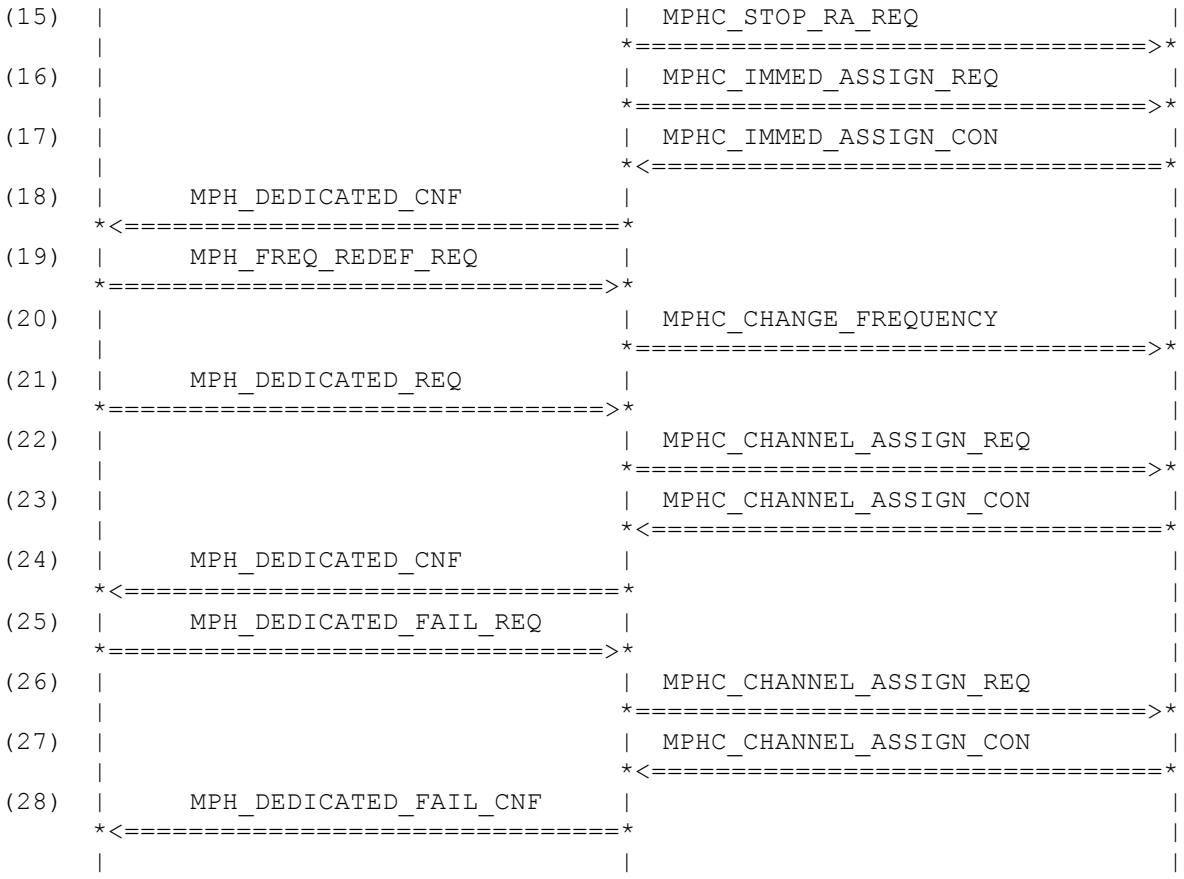
	Primitive	Parameter	Value
(1)	MPH_DEDICATED_REQ		
		mod	MODE_ASYNC_HANDOVER
		start	NOT_USED
		ch_type	CH_TYPE_TCH2
		ch_type2	NOT_USED
		arfcn	ARFCN_14
		bsic	BSIC_1
		ho_param	HO_PARAM_1
		tr_para	TR_PARAM
		ciph	CIPH_PARAM
		amr_conf	NOT_USED
(2)	MPHC_ASYNC_HO_REQ	handover_command	ASYNC_HO_CMD
		fn_offset	NOT_USED
		time_alignmnt	NOT_USED
		cipher_key	NOT_USED
		amr_configuration	NOT_USED

History: 10.11.99 LE Initial
26-Feb-02 OT Adaptations for AMR integration

4.11.2 ALR151: FTA 26.6.13.3

Description: The type approval testcase 26.6.13.3 is performed.
Preamble: ALR012A





Parametrization

Primitive	Parameter	Value
(1) MPH_RANDOM_ACCESS_REQ		
	send_mode	TWO_BURSTS
(2) MPHC_STOP_RXLEV_PERIODIC_REQ		
	param	NOT_USED
(3) MPHC_STOP_NCELL_SYNC_REQ		
	radio_freq_array_size	STOP_SIZE_0
	radio_freq_array	NOT_USED
(4) MPHC_STOP_NCELL_BCCH_REQ		
	radio_freq_array_size	STOP_SIZE_0
	radio_freq_array	NOT_USED
(5) MPHC_STOP_SCELL_BCCH_REQ		
	param	NOT_USED
(6) MPHC_RA_REQ		
	txpwr	POWER_12
	rand	RAND_BURST_1
	channel_request	CHANNEL_REQUEST_1
	powerclass_gsm	POWER_CLASS_5
	powerclass_dcs	NOT_USED
(7) MPHC_RA_CON		
	fn	FN_BURST_1
	channel_request	CHANNEL_REQUEST_1
(8) MPH_RANDOM_ACCESS_CNF		
	frame_no	T123_BURST_1

(9) MPHC_RA_REQ

txpwr	POWER_12
rand	RAND_BURST_2
channel_request	CHANNEL_REQUEST_2
powerclass_gsm	POWER_CLASS_5
powerclass_dcs	NOT_USED

(10) MPHC_DATA_IND

radio_freq	ARFCN_14
l2_channel	L2_CHANNEL_CCCH
error_flag	VALID_BLOCK
l2_frame	L2_IMM_ASS_HOP
tc	TC_0
ccch_lev	NOT_USED
fn	FN_OFFSET_0

(11) MPH_UNITDATA_IND

arfcn	ARFCN_14
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_IMM_ASSIGN
ti	TI_0
tma	TMA_0
dl	DL_0
d_t	D_T_DED
page_mode	PAGE_MODE_1
chan_desc	CHAN_DESC_1
pck_chan_desc	NOT_USED
req_ref	REQ_REF_1
time_advance	TIME_ADVANCE_1
mob_alloc	MOB_ALLOC_1
}	

(10) MPH_DEDICATED_REQ

mod	MODE_IMM_ASSIGN
start	NO_STARTING_TIME
ch_type	CH_TYPE_IMM_ASS
ch_type2	NOT_USED
arfcn	ARFCN_14
bsic	BSIC_1
ho_param	HO_PARAM
tr_para	TR_PARAM
ciph	CIPH_PARAM
amr_conf	NOT_USED

(11) MPHC_STOP_SCELL_BCCH_REQ

param	NOT_USED

(12) MPHC_STOP_CCCH_REQ

param	NOT_USED

(13) MPHC_STOP_RA_REQ

param	NOT_USED

(14) MPHC_IMMED_ASSIGN_REQ

channel_desc	CHANNEL_DESC_IA
timing_advance	TIMING_ADVANCE
frequency_list	FREQ_LIST_IA
starting_time	NO_STARTING_TIME

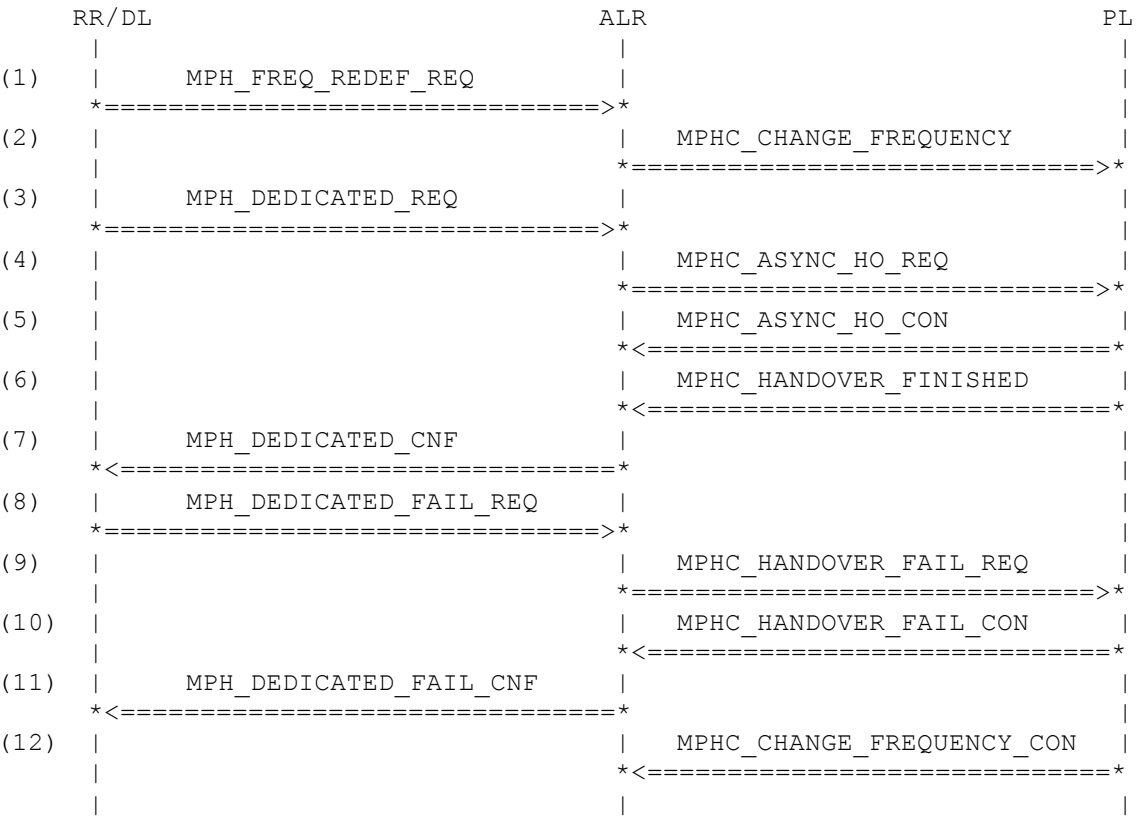
	frequency_list_bef_sti	NOT_USED
	maio_bef_sti	NOT_USED
	dtx_allowed	NOT_USED
	bcch_allocation	NOT_USED
	ba_id	NOT_USED
	pwrc	NOT_USED
(15) MPHC_IMMED_ASSIGN_CON		
	param	NOT_USED
(16) MPH_DEDICATED_CNF		
	dedi_res	DEDI_RES_OK
(17) MPH_FREQ_REDEF_REQ		
	start	STARTING_TIME_T1
	ch_type	CH_TYPE_FREQ_REDEF
(18) MPHC_CHANGE_FREQUENCY		
	channel_desc	CHANNEL_DESC_FR
	frequency_list	FREQ_LIST_FR
	starting_time	S_TIME_T1
(19) MPH_DEDICATED_REQ		
	mod	MODE_CHAN_ASSIGN
	start	STARTING_TIME_T2
	ch_type	CH_TYPE_ASS_AFTER
	ch_type2	CH_TYPE_ASS_BEFORE
	arfcn	ARFCN_14
	bsic	BSIC_1
	ho_param	NOT_USED
	tr_para	TR_PARAM
	ciph	CIPH_PARAM
	amr_conf	NOT_USED
(20) MPHC_CHANNEL_ASSIGN_REQ		
	channel_desc_1	CHANNEL_DESC_ASS_AFTER
	channel_mode_1	NOT_USED
	txpwr	TXPWR0
	frequency_list	FREQ_LIST_ASS_AFTER
	starting_time	S_TIME_T2
	channel_desc_2	NOT_USED
	channel_mode_2	NOT_USED
	frequency_list_bef_sti	FREQ_LIST_ASS_BEFORE
	channel_desc_1_bef_sti	
CHANNEL_DESC_ASS_BEFORE		
	channel_desc_2_bef_sti	NOT_USED
	cipher_mode	NOT_USED
	a5_algorithm	NOT_USED
	cipher_key	NOT_USED
	dtx_allowed	NOT_USED
	amr_configuration	NOT_USED
(21) MPHC_CHANNEL_ASSIGN_CON		
	param	NOT_USED
(22) MPH_DEDICATED_CNF		
	dedi_res	DEDI_RES_OK
(23) MPH_DEDICATED_FAIL_REQ		
	param	NOT_USED
(24) MPHC_CHANNEL_ASSIGN_REQ		
	channel_desc_1	CHANNEL_DESC_FR

		channel_mode_1	NOT_USED
		txpwr	POWER_12
		frequency_list	FREQ_LIST_FR
		starting_time	S_TIME_T1
		channel_desc_2	NOT_USED
		channel_mode_2	NOT_USED
		frequency_list_bef_sti	FREQ_LIST_IA
		channel_desc_1_bef_sti	CHANNEL_DESC_IA
		channel_desc_2_bef_sti	NOT_USED
		cipher_mode	NOT_USED
		a5_algorithm	NOT_USED
		cipher_key	NOT_USED
		dtx_allowed	NOT_USED
		amr_configuration	NOT_USED
(25)	MPHC_CHANNEL_ASSIGN_CON		
		param	NOT_USED
(26)	MPH_DEDICATED_FAIL_CNF		
		param	NOT_USED

History:	10.11.99	LE	Initial
	07.02.02	LG	removed MPHC_START_CCCH_REQ (ALR-FIX-4650)
	26-Feb-02	OT	Adaptations for AMR integration

4.11.3 ALR152: FTA 26.6.13.8

Description: The type approval testcase 26.6.13.8 is performed.
Preamble: ALR056



Parametrization

Primitive	Parameter	Value

(1) MPH_FREQ_REDEF_REQ		
	start	STARTING_TIME
	ch_type	CH_TYPE_SDCCH4
(2) MPHC_CHANGE_FREQUENCY		
	channel_desc	CHANNEL_DESC_4
	frequency_list	FREQ_LIST
	starting_time	S_TIME_MPHC
(3) MPH_DEDICATED_REQ		
	mod	MODE_ASYNC_HANDOVER
	start	STARTING_TIME
	ch_type	CH_TYPE_TCH2
	ch_type2	CH_TYPE_TCH3
	arfcn	ARFCN_14
	bsic	BSIC_1
	ho_param	HO_PARAM_1
	tr_para	TR_PARAM
	ciph	CIPH_PARAM
	amr_conf	NOT_USED
(4) MPHC_ASYNC_HO_REQ		
	handover_command	ASYNC_HO_CMD_2
	fn_offset	NOT_USED
	time_alignmnt	NOT_USED
	cipher_key	NOT_USED
	amr_configuration	NOT_USED
(5) MPHC_ASYNC_HO_CON		
	param	NOT_USED
(6) MPHC_HANDOVER_FINISHED		
	cause	HO_COMPLETE
(7) MPH_DEDICATED_CNF		
	dedi_res	DEDI_RES_OK
(8) MPH_DEDICATED_FAIL_REQ		
	param	NOT_USED
(9) MPHC_HANDOVER_FAIL_REQ		
	param	NOT_USED
(10) MPHC_HANDOVER_FAIL_CON		
	param	NOT_USED
(11) MPH_DEDICATED_FAIL_CNF		
	param	NOT_USED
(12) MPHC_CHANGE_FREQUENCY_CON		
	param	NOT_USED

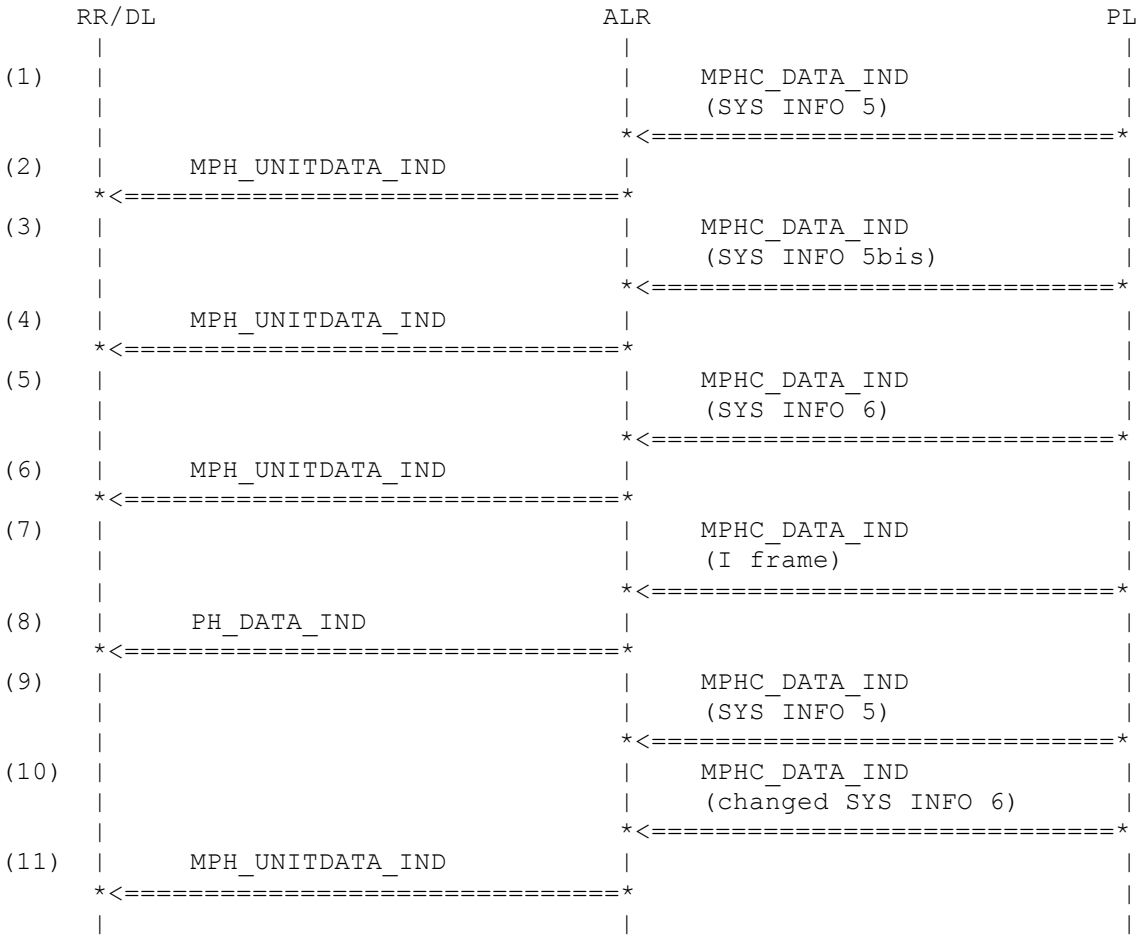
History:	10.11.99	LE Initial
	26-Feb-02	OT Adaptations for AMR integration

4.11.4 ALR153: SACCH Downlink Messages

Description: The MS is in dedicated mode. It receives a system info type 5 message (forwarded to RR), a system info type 5bis message (forwarded to RR), a system info type 6 message (forwarded to RR), an I-frame for SMS (forwarded to DL), the first system info

type 5 message again (compared and not forwarded by ALR) and a changed system info type 6 message (forwarded to RR).

Preamble: ALR151



Parametrization

Primitive	Parameter	Value
(1) MPHC_DATA_IND		
	radio_freq	ARFCN_14
	l2_channel	L2_CHANNEL_SACCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_5
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(2) MPH_UNITDATA_IND		
	arfcn	ARFCN_14
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_5
	ti	TI_0
	neigh_cell_desc	NEIGH_CELL_DESC_2
	}	
(3) MPHC_DATA_IND		
	radio_freq	ARFCN_14

	l2_channel	L2_CHANNEL_SACCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_5BIS
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(4) MPH_UNITDATA_IND		
	arfcn	ARFCN_14
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_5BIS
	ti	TI_0
	neigh_cell_desc	NEIGH_CELL_DESC_2
	}	
(5) MPHC_DATA_IND		
	radio_freq	ARFCN_14
	l2_channel	L2_CHANNEL_SACCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_6
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(6) MPH_UNITDATA_IND		
	arfcn	ARFCN_14
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_6
	ti	TI_0
	cell_ident	CELL_IDENT_2
	loc_area_ident	LOC_AREA_IDENT_2
	cell_opt_sacch	CELL_OPT_SACCH_1
	ncc_permit	NCC_PERMIT_2
	si6_rest_oct	NOT_USED
	}	
(7) MPHC_DATA_IND		
	radio_freq	ARFCN_14
	l2_channel	L2_CHANNEL_SACCH
	error_flag	VALID_BLOCK
	l2_frame	L2_I_SMS
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(8) PH_DATA_IND		
	ch_type	CH_TYPE_SACCH
	dummy	NOT_USED
	sdu	I_SMS
(9) MPHC_DATA_IND		
	radio_freq	ARFCN_14
	l2_channel	L2_CHANNEL_SACCH

	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_5
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(10) MPHC_DATA_IND		
	radio_freq	ARFCN_14
	l2_channel	L2_CHANNEL_SACCH
	error_flag	VALID_BLOCK
	l2_frame	L2_CHANGED_SYS_INFO_6
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(11) MPH_UNITDATA_IND		
	arfcn	ARFCN_14
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_6
	ti	TI_0
	cell_ident	CELL_IDENT_3
	loc_area_ident	LOC_AREA_IDENT_2
	cell_opt_sacch	CELL_OPT_SACCH_1
	ncc_permit	NCC_PERMIT_2
	si6_rest_oct	NOT_USED
	}	

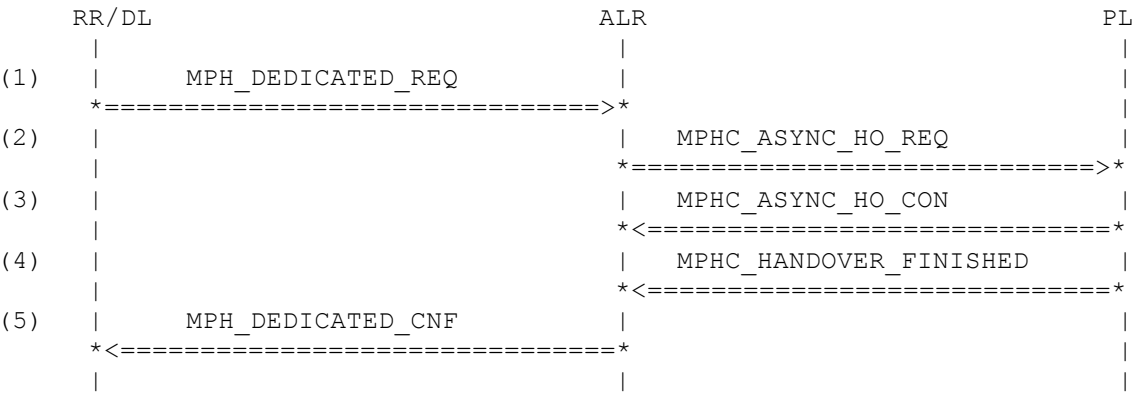
History:	10.11.99	LE Initial

4.11.5 ALR154: Handover, Serving Cell Parameter

Description: A handover is performed. It is checked that the serving cell channel numbers are correctly set.
<A>: AMR not signalled
<B>: AMR signalled

Variants: <A>....<B>

Preamble: ALR056



Parametrization

Primitive	Parameter	Value
(1) MPH_DEDICATED_REQ		
	mod	MODE_ASYNC_HANDOVER
	start	STARTING_TIME

	ch_type	CH_TYPE_TCH2
	ch_type2	CH_TYPE_TCH3
	arfcn	ARFCN_30
	bsic	BSIC_1
	ho_param	HO_PARAM_1
	tr_para	TR_PARAM
	ciph	CIPH_PARAM
<A>	amr_conf	NOT_USED
<B>	amr_conf	S_AMR_CONF_4_ICMI
(2) MPHC_ASYNC_HO_REQ		
	handover_command	ASYNC_HO_CMD_3
	fn_offset	NOT_USED
	time_alignmnt	NOT_USED
	cipher_key	NOT_USED
<A>	amr_configuration	NOT_USED
<B>	amr_configuration	S_AMR_CONFIGURATION
(3) MPHC_ASYNC_HO_CON		
	param	NOT_USED
(4) MPHC_HANDOVER_FINISHED		
	cause	HO_COMPLETE
(5) MPH_DEDICATED_CNF		
	dedi_res	DEDI_RES_OK

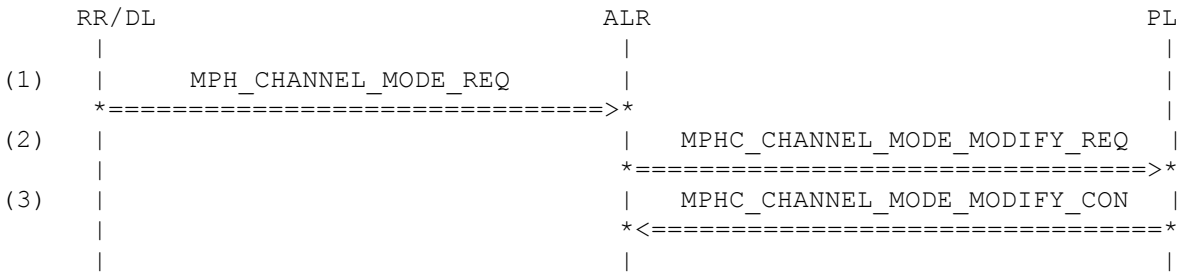
History:	10.11.99	LE Initial
	30-Nov-01	OT Variants <A>..<B> introduced, <B> for AMR

4.12 Channel mode modify

4.12.1 ALR701: Channel mode modify request – AMR half rate

Description: A handover is performed. It is checked that the serving cell channel numbers are correctly set.

Preamble: ALR056



Parametrization

Primitive	Parameter	Value
(1) MPH_CHANNEL_MODE_REQ		
	mode	CHANNEL_MODE_AMR
	amr_conf	S_AMR_CONF_4_ICMI
(2) MPHC_CHANNEL_MODE_MODIFY_REQ		
	sub_channel	NOT_USED

	channel_mode	CHM_AHS
	amr_configuration	S_AMR_CONFIGURATION
(3) MPHC_CHANNEL_MODE_MODIFY_CON		
	param	NOT_USED

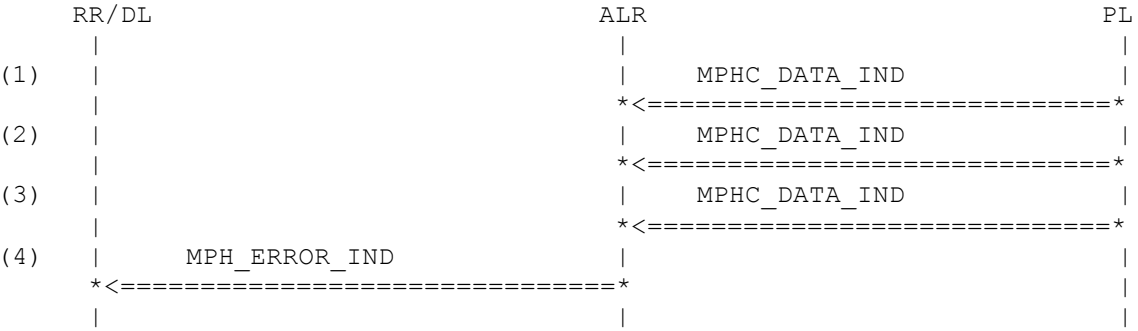
History:	30-Nov-01	OT Initial

4.13 Downlink Failure Detection

4.13.1 ALR042: Receive Invalid Paging Messages

Description: The downlink timeout value is initialised with a value of 10 (bs_pa_mfrms equal to 9). For each invalid paging message the counter is decremented by four. After three invalid messages a downlink error shall be indicated to RR.

Preamble: ALR013



Parametrization

Primitive	Parameter	Value
(1) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_PCH
	error_flag	INVALID_BLOCK
	l2_frame	L2_NO_CONTENT
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(2) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_PCH
	error_flag	INVALID_BLOCK
	l2_frame	L2_NO_CONTENT
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(3) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_PCH
	error_flag	INVALID_BLOCK
	l2_frame	L2_NO_CONTENT
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0

(4) MPH_ERROR_IND

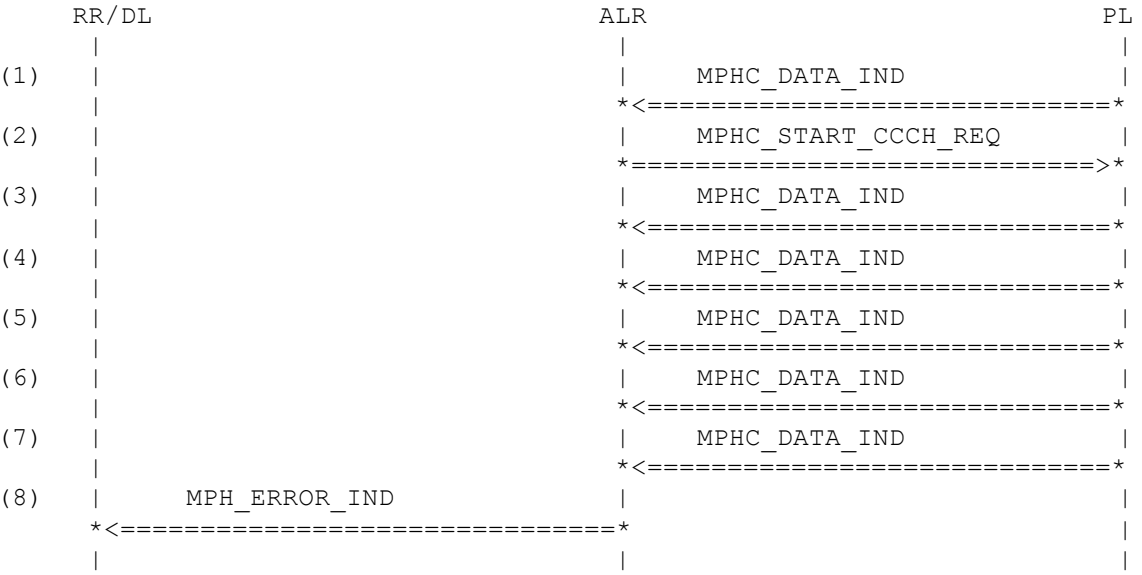
cs	CS_DOWN_LINK_FAIL
arfcn	ARFCN_23

History: 10.11.99 LE Initial

4.13.2 ALR043: Test Upper Limit of Downlink Timeout Value

Description: The downlink timeout value is initialised with a value of 10 (bs_pa_mfrms equal to 9). For each invalid paging message the counter is decremented by four. For each valid paging message the counter is incremented by one. It is checked that the counter is not incremented more than the initial value.

Preamble: ALR013



Parametrization

Primitive	Parameter	Value
(1) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_PCH
	error_flag	VALID_BLOCK
	l2_frame	L2_PAGING_REQ_1
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(2) MPHC_START_CCCH_REQ		
	bs_pa_mfrms	BS_PA_MFRMS_8
	bs_ag_blks_res	BS_AG_BLKS_RES_3
	bcch_combined	COMB_CCCH_COMB
	ccch_group	CCCH_GROUP_0
	page_group	PG_20
	page_block_index	PBI_0
	page_mode	PGM_NORMAL
(3) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_PCH
	error_flag	VALID_BLOCK
	l2_frame	L2_PAGING_REQ_1

	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(4) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_PCH
	error_flag	VALID_BLOCK
	l2_frame	L2_PAGING_REQ_1
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(5) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_PCH
	error_flag	INVALID_BLOCK
	l2_frame	L2_NO_CONTENT
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(6) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_PCH
	error_flag	INVALID_BLOCK
	l2_frame	L2_NO_CONTENT
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(7) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_PCH
	error_flag	INVALID_BLOCK
	l2_frame	L2_NO_CONTENT
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(8) MPH_ERROR_IND		
	cs	CS_DOWN_LINK_FAIL
	arfcn	ARFCN_23

History:	10.11.99	LE Initial

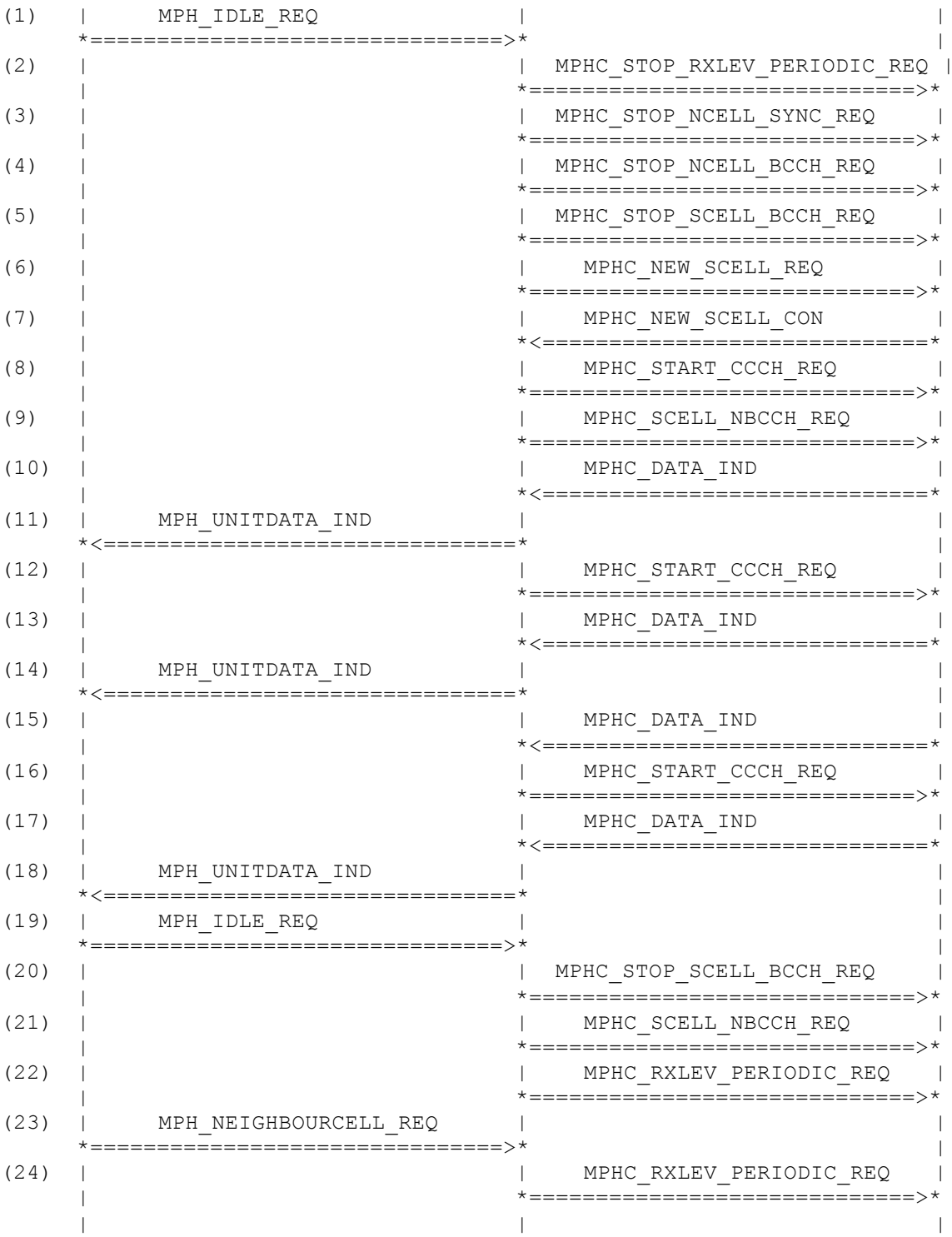
4.14 Cell Reselection

4.14.1 ALR900: Successful Case

Description: The current serving cell is 23, the neighbourcells are 1,14 and 124. RR starts a cell reselection to neighbourcell 14. After the end of cell reselection a new neighbourcell list is forwarded to ALR with the neighbourcells 2 and 15. It is expected that layer 1 is configured with the new serving cell 14 and the neighbourcells 2 and 15.

Preamble: ALR047

```
RR/DL                    ALR                    PL
 |                        |                      |
```



Parametrization

Primitive	Parameter	Value
(1) MPH_IDLE_REQ		
	mod	MODE_CELL_RESELECTION
	arfcn	ARFCN_14
	ext_bcch	NOT_USED
	comb_ccch	COMB_CCCH_NOT_COMB
	tn	TN_0
	dlt	DLT_10
	pg	PG_20

	bs_ag_blocks_res	BS_AG_BLKS_RES_3
	bs_pa_mfrms	BS_PA_MFRMS_6
	power	POWER_12
	ncc_permitted	NOT_PRESENT_8BIT
	reorg_only	NOT_USED

(2) MPHC_STOP_RXLEV_PERIODIC_REQ

	param	NOT_USED

(3) MPHC_STOP_NCELL_SYNC_REQ

	radio_freq_array_size	STOP_SIZE_0
	radio_freq_array	NOT_USED

(4) MPHC_STOP_NCELL_BCCH_REQ

	radio_freq_array_size	STOP_SIZE_0
	radio_freq_array	NOT_USED

(5) MPHC_STOP_SCELL_BCCH_REQ

	param	NOT_USED

(6) MPHC_NEW_SCELL_REQ

	radio_freq	ARFCN_14
	fn_offset	FN_OFFSET_14
	time_alignment	TIME_ALIGNMT_14
	tsc	BSIC_1

(7) MPHC_NEW_SCELL_CON

	param	NOT_USED

(8) MPHC_START_CCCH_REQ

	bs_pa_mfrms	BS_PA_MFRMS_2
	bs_ag_blks_res	BS_AG_BLKS_RES_7
	bcch_combined	COMB_CCCH_NOT_COMB
	ccch_group	CCCH_GROUP_0
	page_group	PG_0
	page_block_index	PBI_0
	page_mode	PGM_REORG

(9) MPHC_SCELL_NBCCH_REQ

	schedule_array_size	SCHED_SIZE_1
	schedule_array	NOT_USED

(10) MPHC_DATA_IND

	radio_freq	ARFCN_14
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_3
	tc	TC_1
	ccch_lev	NOT_USED
	fn	FN_OFFSET_14

(11) MPH_UNITDATA_IND

	arfcn	ARFCN_14
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_3
	ti	TI_0
	cell_ident	CELL_IDENT_1
	loc_area_ident	LOC_AREA_IDENT_1

ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(12) MPHC_START_CCCH_REQ

bs_pa_mfrms	BS_PA_MFRMS_4
bs_ag_blks_res	BS_AG_BLKS_RES_5
bcch_combined	COMB_CCCH_NOT_COMB
ccch_group	CCCH_GROUP_0
page_group	PG_1
page_block_index	PBI_1
page_mode	PGM_REORG

(13) MPHC_DATA_IND

radio_freq	ARFCN_14
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_1
tc	TC_1
ccch_lev	NOT_USED
fn	FN_OFFSET_14

(14) MPH_UNITDATA_IND

arfcn	ARFCN_14
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_1
ti	TI_0
cell_chan_desc	CELL_CHAN_DESC_1
rach_ctrl	RACH_CTRL_1
}	

(15) MPHC_DATA_IND

radio_freq	ARFCN_23
l2_channel	L2_CHANNEL_PCH
error_flag	VALID_BLOCK
l2_frame	L2_PAGING_REQ_1
tc	TC_0
ccch_lev	NOT_USED
fn	FN_OFFSET_0

(16) MPHC_START_CCCH_REQ

bs_pa_mfrms	BS_PA_MFRMS_4
bs_ag_blks_res	BS_AG_BLKS_RES_5
bcch_combined	COMB_CCCH_NOT_COMB
ccch_group	CCCH_GROUP_0
page_group	PG_1
page_block_index	PBI_1
page_mode	PGM_NORMAL

(17) MPHC_DATA_IND

radio_freq	ARFCN_14
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_2
tc	TC_1

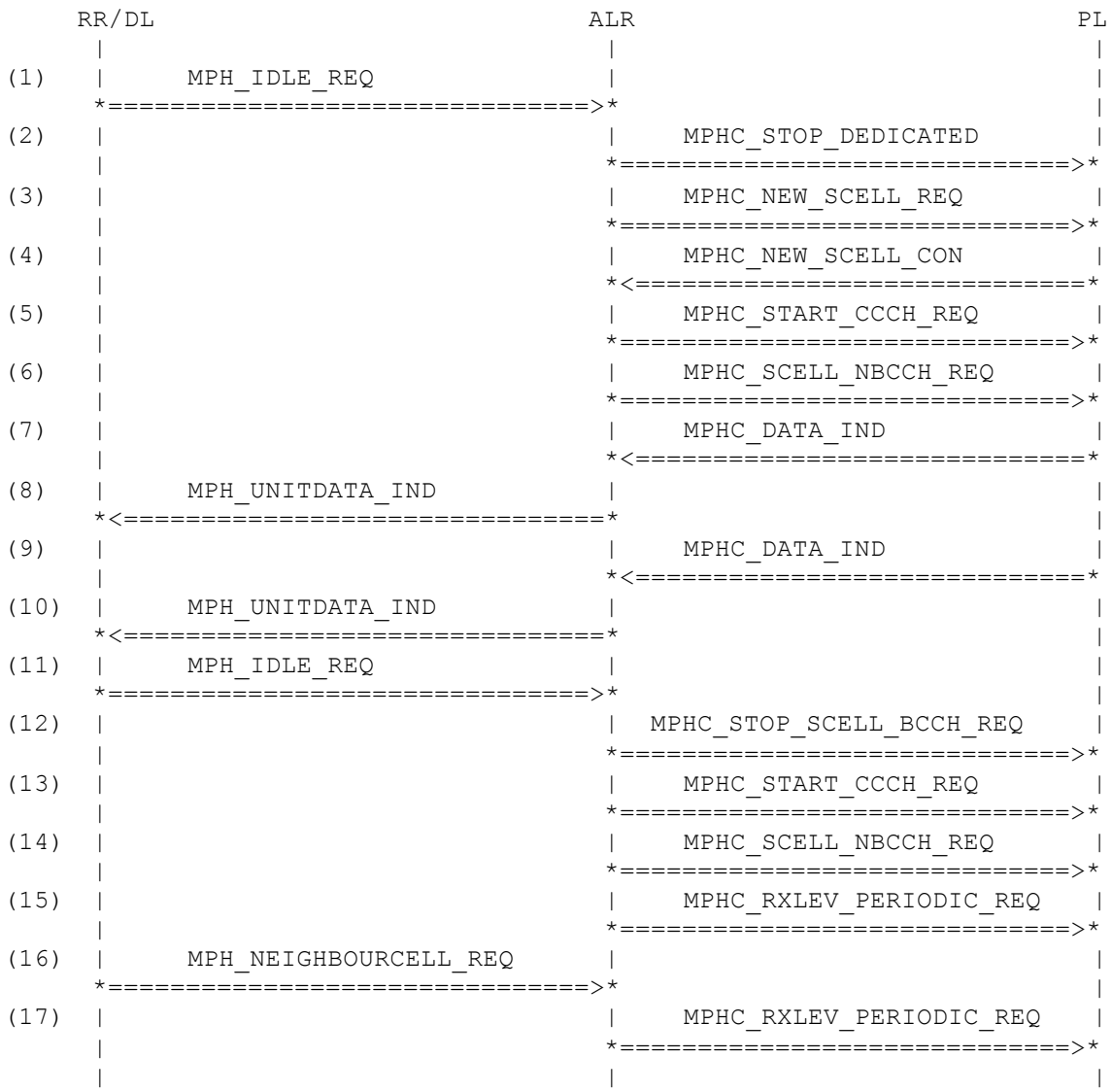
	ccch_lev	NOT_USED
	fn	FN_OFFSET_14
(18) MPH_UNITDATA_IND		
	arfcn	ARFCN_14
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_2
	ti	TI_0
	neigh_cell_desc	NEIGH_CELL_DESC_1
	ncc_permit	NCC_PERMIT_1
	rach_ctrl	RACH_CTRL_1
	}	
(19) MPH_IDLE_REQ		
	mod	MODE_CELL_SELECTION
	arfcn	ARFCN_14
	ext_bcch	NOT_USED
	comb_ccch	COMB_CCCH_NOT_COMB
	tn	TN_0
	dlt	DLT_10
	pg	PG_1
	bs_ag_blocks_res	BS_AG_BLKS_RES_5
	bs_pa_mfrms	BS_PA_MFRMS_2
	power	POWER_12
	ncc_permitted	NOT_PRESENT_8BIT
	reorg_only	NOT_USED
(20) MPHC_STOP_SCELL_BCCH_REQ		
	param	NOT_USED
(21) MPHC_SCELL_NBCCH_REQ		
	schedule_array_size	SCHED_SIZE_1
	schedule_array	NOT_USED
(22) MPHC_RXLEV_PERIODIC_REQ		
	chan_list	CHLIST_23_1_14_124
	num_of_chans	CHANNELS_4
	ba_id	BA_ID_2
	next_radio_freq_measured	CHAN_LIST_IDX_0
(23) MPH_NEIGHBOURCELL_REQ		
	multi_band	MULTI_BAND_0
	arfcn	CHLIST_1_15_FFFF
	sync_only	NOT_USED
(24) MPHC_RXLEV_PERIODIC_REQ		
	chan_list	CHLIST_1_14_15
	num_of_chans	CHANNELS_3
	ba_id	BA_ID_3
	next_radio_freq_measured	CHAN_LIST_IDX_0

History:	10.11.99	LE	Initial
	08.02.02	LG	handling of SI3 inserted (ALR-FIX-4650)

4.14.2 ALR901: Cell Reselection after dedicated mode

Description: The mobile leaves the dedicated mode to the current serving cell 23. A cell reselection is performed and the idle mode is configured.

Preamble: ALR056



Parametrization

Primitive	Parameter	Value
(1) MPH_IDLE_REQ		
	mod	MODE_CELL_RESELECTION
	arfcn	ARFCN_23
	ext_bcch	NOT_USED
	comb_ccch	COMB_CCCH_COMB
	tn	TN_0
	dlt	DLT_10
	pg	PG_20
	bs_ag_blocks_res	BS_AG_BLKS_RES_3
	bs_pa_mfrms	BS_PA_MFRMS_6
	power	POWER_12
	ncc_permitted	NOT_PRESENT_8BIT
	reorg_only	NOT_USED

(2) MPHC_STOP_DEDICATED

param	NOT_USED

(3) MPHC_NEW_SCELL_REQ

radio_freq	ARFCN_23
fn_offset	FN_OFFSET_0
time_alignment	TIME_ALIGNMT_0
tsc	BSIC_1

(4) MPHC_NEW_SCELL_CON

param	NOT_USED

(5) MPHC_START_CCCH_REQ

bs_pa_mfrms	BS_PA_MFRMS_2
bs_ag_blks_res	BS_AG_BLKS_RES_7
bcch_combined	COMB_CCCH_NOT_COMB
ccch_group	CCCH_GROUP_0
page_group	PG_0
page_block_index	PBI_0
page_mode	PGM_REORG

(6) MPHC_SCELL_NBCCH_REQ

schedule_array_size	SCHED_SIZE_1
schedule_array	NOT_USED

(7) MPHC_DATA_IND

radio_freq	ARFCN_23
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_1
tc	TC_0
ccch_lev	NOT_USED
fn	FN_OFFSET_0

(8) MPH_UNITDATA_IND

arfcn	ARFCN_23
fn	FN_OFFSET_0
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_1
ti	TI_0
cell_chan_desc	CELL_CHAN_DESC_1
rach_ctrl	RACH_CTRL_1
}	

(9) MPHC_DATA_IND

radio_freq	ARFCN_23
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_2
tc	TC_1
ccch_lev	NOT_USED
fn	FN_OFFSET_0

(10) MPH_UNITDATA_IND

arfcn	ARFCN_23
fn	FN_OFFSET_0
sdu	
{	
component	RR

direction	DOWNLINK
pd	D_SYS_INFO_2
ti	TI_0
neigh_cell_desc	NEIGH_CELL_DESC_1
ncc_permit	NCC_PERMIT_1
rach_ctrl	RACH_CTRL_1
}	

(11) MPH_IDLE_REQ

mod	MODE_CELL_SELECTION
arfcn	ARFCN_23
ext_bcch	NOT_USED
comb_ccch	COMB_CCCH_NOT_COMB
tn	TN_0
dlt	DLT_10
pg	PG_20
bs_ag_blocks_res	BS_AG_BLKS_RES_3
bs_pa_mfrms	BS_PA_MFRMS_6
power	POWER_12
ncc_permitted	NOT_PRESENT_8BIT
reorg_only	NOT_USED

(12) MPHC_STOP_SCELL_BCCH_REQ

param	NOT_USED

(13) MPHC_START_CCCH_REQ

bs_pa_mfrms	BS_PA_MFRMS_8
bs_ag_blks_res	BS_AG_BLKS_RES_3
bcch_combined	COMB_CCCH_NOT_COMB
ccch_group	CCCH_GROUP_0
page_group	PG_20
page_block_index	PBI_2
page_mode	PGM_REORG

(14) MPHC_SCELL_NBCCH_REQ

schedule_array_size	SCHED_SIZE_1
schedule_array	FULL_READ

(15) MPHC_RXLEV_PERIODIC_REQ

chan_list	CHLIST_23_1_14_124
num_of_chans	CHANNELS_4
ba_id	BA_ID_2
next_radio_freq_measured	CHAN_LIST_IDX_0

(16) MPH_NEIGHBOURCELL_REQ

multi_band	MULTI_BAND_0
arfcn	CHLIST_1_15_FFFF
sync_only	NOT_USED

(17) MPHC_RXLEV_PERIODIC_REQ

chan_list	CHLIST_23_1_15
num_of_chans	CHANNELS_3
ba_id	BA_ID_3
next_radio_freq_measured	CHAN_LIST_IDX_0

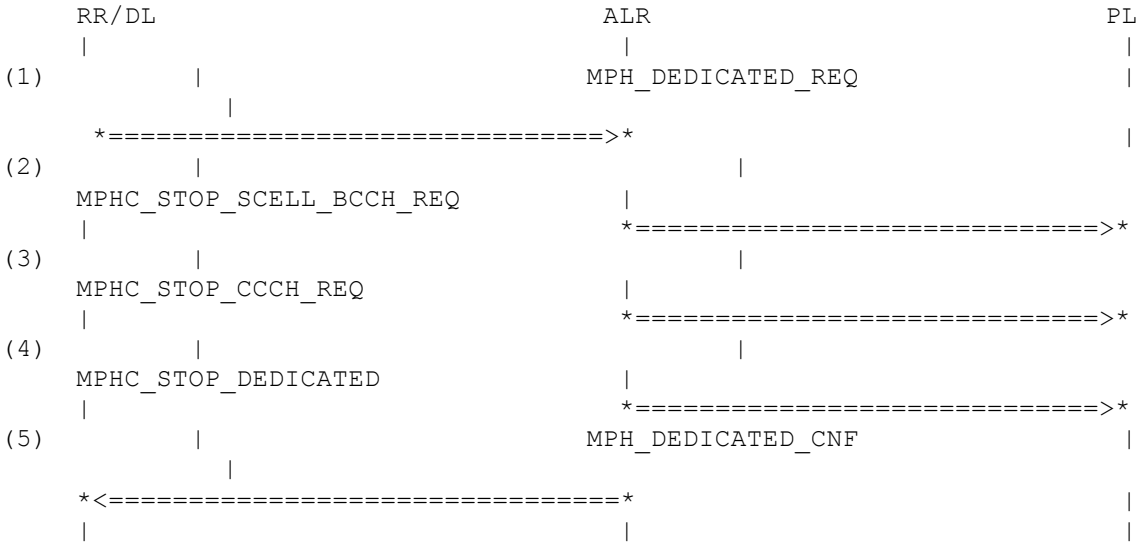
History:	10.11.99	LE	Initial
	21.06.02	MSB	sequence and parameter changed for MPHC_SCELL_NBCCH_REQ:

after pagemode set to REORG,
full read is necessary

4.14.3 ALR920: PDCH Assignment

Description: In dedicated mode ALR is suspended during a PDCH Assignment procedure.
Reference: TS04.08 V8.10.0, section 3.4.19 Assignment to a Packet Data channel.

Preamble: ALR056



Parametrization

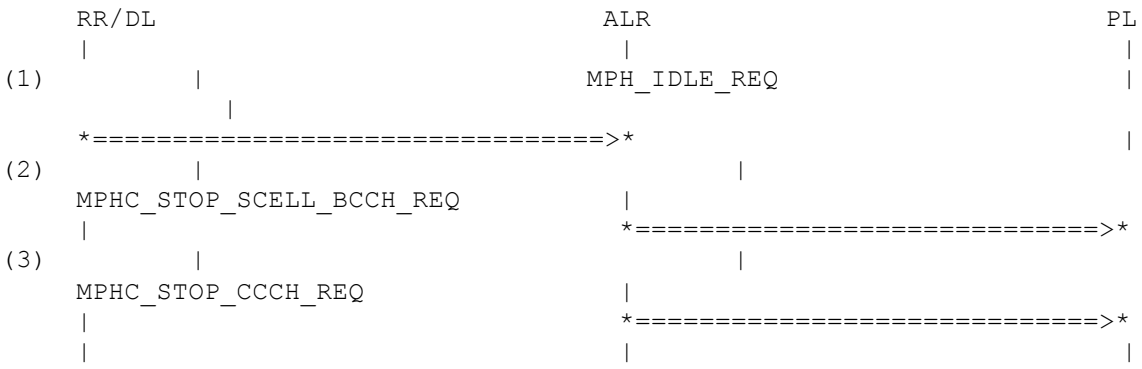
Primitive	Parameter	Value
(27) MPH_DEDICATED_REQ		
	mod	MODE_PDCH_ASSIGN
	start	NOT_USED
	ch_type	NOT_USED
	ch_type2	NOT_USED
	arfcn	NOT_USED
	bsic	NOT_USED
	ho_param	NOT_USED
	tr_para	NOT_USED
	ciph	NOT_USED
	amr_conf	NOT_USED
(1) MPHC_STOP_SCELL_BCCH_REQ		
	param	NOT_USED
(2) MPHC_STOP_CCCH_REQ		
	param	NOT_USED
(3) MPHC_STOP_DEDICATED		
	param	NOT_USED
(4) MPH_DEDICATED_CNF		
	dedi_res	DEDI_RES_OK

History:	12.08.01	VK	Initial (copied from ALR930 and adapted)
	26-Feb-02	OT	Adaptations for AMR integration

4.14.4 ALR921: PDCH Assignment, Success, Start TBF establishment

Description: In dedicated mode ALR is suspended during a PDCH Assignment procedure. After a successful TBF establishment, ALR is requested to enter a mode which is compatible to Packet Transfer Mode.

Preamble: ALR920



Parametrization

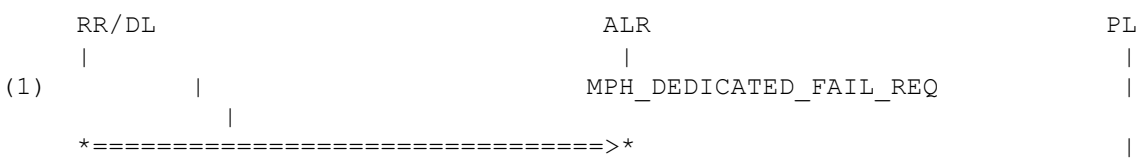
Primitive	Parameter	Value
(1) MPH_IDLE_REQ		
	mod	MODE_PACKET_TRANSFER
	arfcn	ARFCN_23
	ext_bcch	NOT_USED
	comb_ccch	COMB_CCCH_NOT_COMB
	tn	TN_0
	dlt	DLT_10
	pg	PG_20
	bs_ag_blocks_res	BS_AG_BLKS_RES_3
	bs_pa_mfrms	BS_PA_MFRMS_6
	power	POWER_12
	ncc_permitted	NOT_PRESENT_8BIT
	reorg_only	NOT_USED
(2) MPHC_STOP_SCELL_BCCH_REQ		
	param	NOT_USED
(3) MPHC_STOP_CCCH_REQ		
	param	NOT_USED

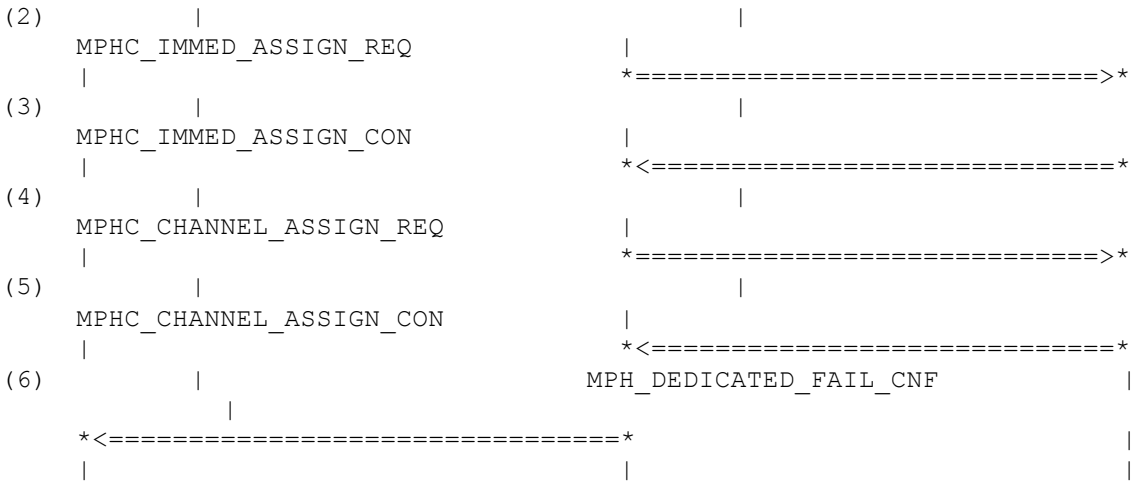
History:	13.08.01	VK	Initial

4.14.5 ALR922: PDCH Assignment, Error during TBB establishment

Description: After an unsuccessful TBF establishment, ALR is requested to switch back to the 'old' channel.

Preamble: ALR921





Parametrization

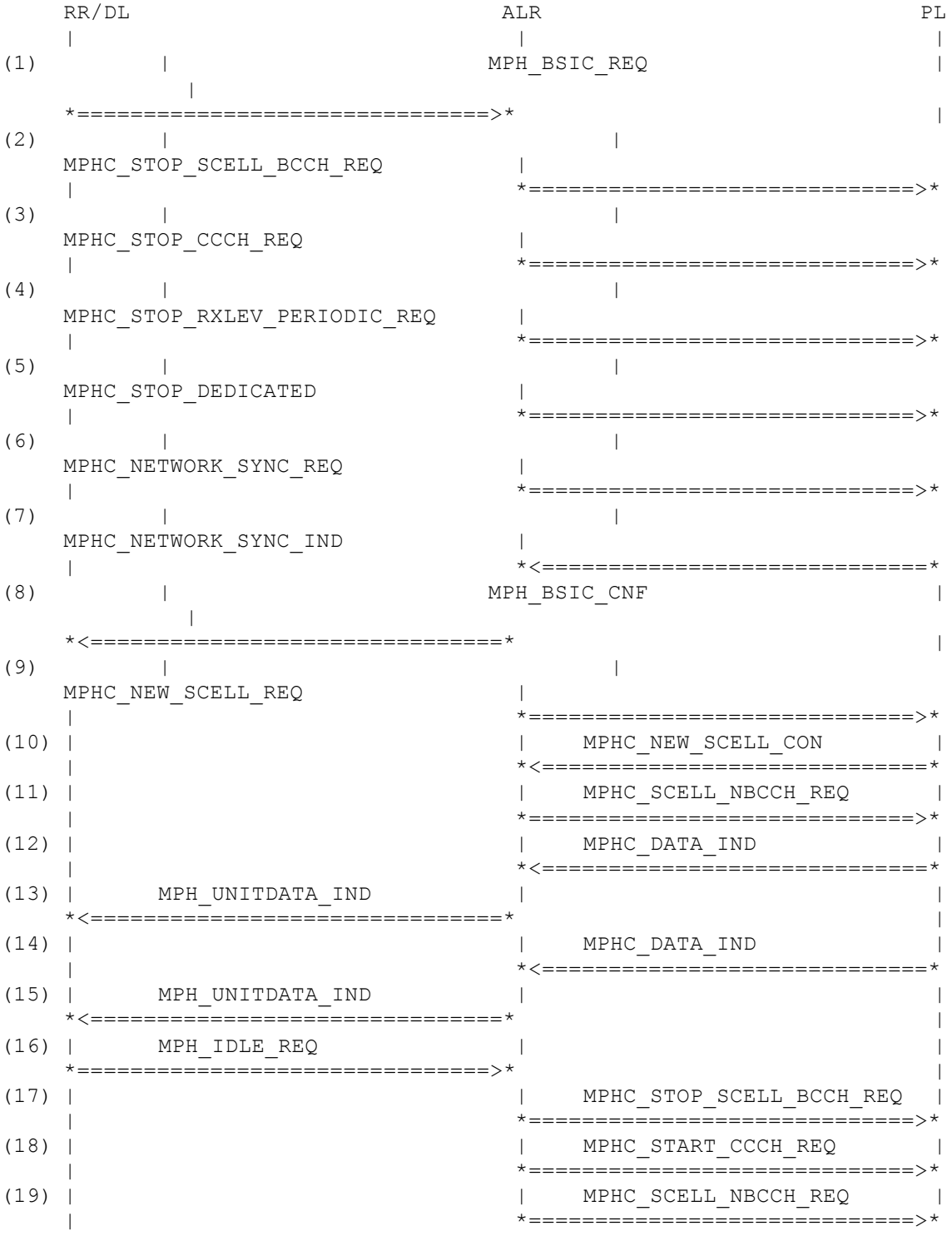
Primitive	Parameter	Value
(1) MPH_DEDICATED_FAIL_REQ		
	param	NOT_USED
(2) MPHC_IMMED_ASSIGN_REQ		
	channel_desc	CHANNEL_DESC_1
	timing_advance	TIMING_ADVANCE
	frequency_list	FREQ_LIST
	starting_time	NOT_USED
	frequency_list_bef_sti	NOT_USED
	maio_bef_sti	NOT_USED
	dtx_allowed	NOT_USED
	bcch_allocation	NOT_USED
	ba_id	NOT_USED
	pwrc	NOT_USED
(3) MPHC_IMMED_ASSIGN_CON		
	param	NOT_USED
(4) MPHC_CHANNEL_ASSIGN_REQ		
	channel_desc_1	NOT_USED
	channel_mode_1	NOT_USED
	txpwr	NOT_USED
	frequency_list	NOT_USED
	starting_time	NOT_USED
	channel_desc_2	NOT_USED
	channel_mode_2	NOT_USED
	frequency_list_bef_sti	NOT_USED
	channel_desc_1_bef_sti	NOT_USED
	channel_desc_2_bef_sti	NOT_USED
	cipher_mode	NOT_USED
	a5_algorithm	NOT_USED
	cipher_key	NOT_USED
	dtx_allowed	NOT_USED
	amr_configuration	NOT_USED
(5) MPHC_CHANNEL_ASSIGN_CON		
	param	NOT_USED
(6) MPH_DEDICATED_FAIL_CNF		
	param	NOT_USED

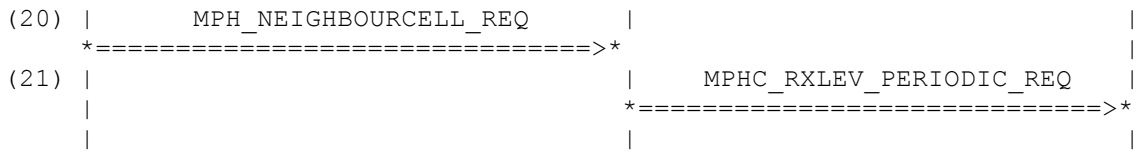
History:	14.08.01	VK	Initial4650)
	26-Feb-02	OT	Adaptations for AMR integration

4.14.6 ALR930: Network Coltrolled Change Cell

Description: In dedicated mode ALR is requested to synchronize to a new cell. The new cell ARFCN and BSIC is provided by the network.

Preamble: ALR056





Parametrization

Primitive	Parameter	Value
(1) MPH_BSIC_REQ		
	arfcn	ARFCN_42
(2) MPHC_STOP_SCELL_BCCH_REQ		
	param	NOT_USED
(3) MPHC_STOP_CCCH_REQ		
	param	NOT_USED
(4) MPHC_STOP_RXLEV_PERIODIC_REQ		
	param	NOT_USED
(5) MPHC_STOP_DEDICATED		
	param	NOT_USED
(6) MPHC_NETWORK_SYNC_REQ		
	radio_freq	ARFCN_42
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
	search_mode	SM_WIDE_MODE
(7) MPHC_NETWORK_SYNC_IND		
	radio_freq	ARFCN_42
	sb_flag	SB_FOUND
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	bsic	BSIC_1
(8) MPH_BSIC_CNF		
	arfcn	ARFCN_42
	bsic	BSIC_1
	cs	CS_NO_ERROR
(9) MPHC_NEW_SCELL_REQ		
	radio_freq	ARFCN_42
	fn_offset	FN_OFFSET_0
	time_alignment	TIME_ALIGNMT_0
	tsc	BSIC_1
(10)MPHC_NEW_SCELL_CON		
	param	NOT_USED
(11)MPHC_SCELL_NBCCH_REQ		
	schedule_array_size	SCHED_SIZE_1
	schedule_array	FULL_READ
(12)MPHC_DATA_IND		
	radio_freq	ARFCN_42
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_1
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0

(13)MPH_UNITDATA_IND

arfcn	ARFCN_42
fn	FN_OFFSET_0
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_1
ti	TI_0
cell_chan_desc	CELL_CHAN_DESC_1
rach_ctrl	RACH_CTRL_1
}	

(14)MPHC_DATA_IND

radio_freq	ARFCN_42
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_2
tc	TC_1
ccch_lev	NOT_USED
fn	FN_OFFSET_0

(15)MPH_UNITDATA_IND

arfcn	ARFCN_42
fn	FN_OFFSET_0
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_2
ti	TI_0
neigh_cell_desc	NEIGH_CELL_DESC_1
ncc_permit	NCC_PERMIT_1
rach_ctrl	RACH_CTRL_1
}	

(16)MPH_IDLE_REQ

mod	MODE_CELL_SELECTION
arfcn	ARFCN_42
ext_bcch	NOT_USED
comb_ccch	COMB_CCCH_NOT_COMB
tn	TN_0
dlt	DLT_10
pg	PG_20
bs_ag_blocks_res	BS_AG_BLKS_RES_3
bs_pa_mfrms	BS_PA_MFRMS_6
power	POWER_12
ncc_permitted	NOT_PRESENT_8BIT
reorg_only	NOT_USED

(17)MPHC_STOP_SCELL_BCCH_REQ

param	NOT_USED

(18)MPHC_START_CCCH_REQ

bs_pa_mfrms	BS_PA_MFRMS_8
bs_ag_blks_res	BS_AG_BLKS_RES_3
bcch_combined	COMB_CCCH_NOT_COMB
ccch_group	CCCH_GROUP_0
page_group	PG_20
page_block_index	PBI_2
page_mode	PGM_REORG

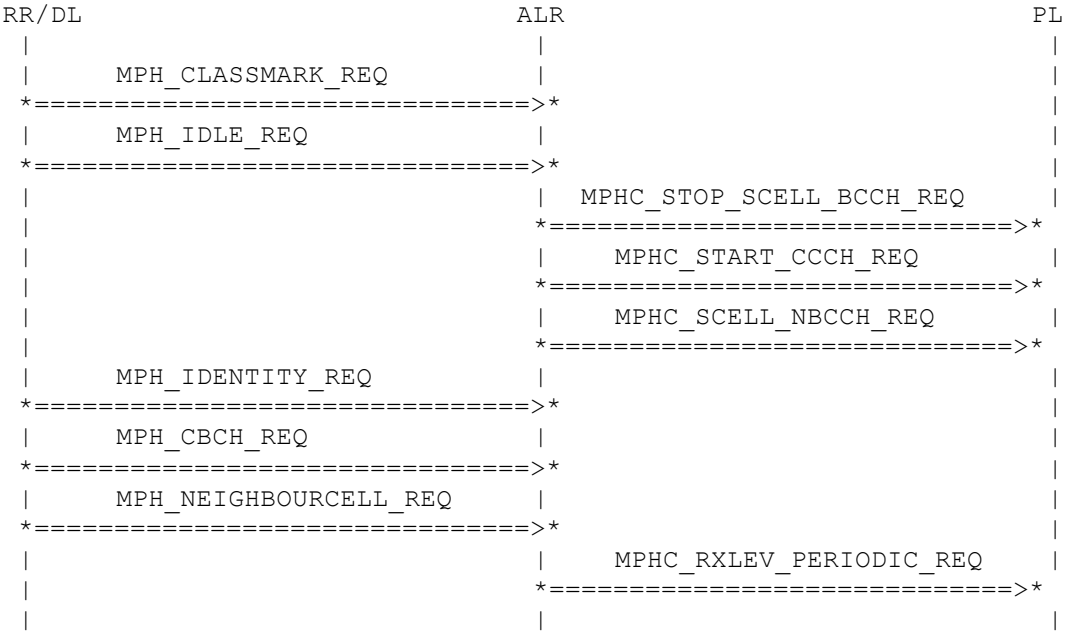
(19)MPHC_SCELL_NBCCH_REQ		
	schedule_array_size	SCHED_SIZE_1
	schedule_array	FULL_READ
(20)MPH_NEIGHBOURCELL_REQ		
	multi_band	MULTI_BAND_0
	arfcn	CHLIST_2_30_FFFF
	sync_only	NOT_USED
(21)MPHC_RXLEV_PERIODIC_REQ		
	chan_list	CHLIST_42_2_30
	num_of_chans	CHANNELS_3
	ba_id	BA_ID_1
	next_radio_freq_measured	CHAN_LIST_IDX_0

History:	08.08.01	VK	Initial (copied from ALR901)

4.15 Idle Mode Neighbourcells Procedures

4.15.1 ALR046: Definition of BCCH Allocation

Description: RR selects the channel 23 after reading the BCCH carrier.
Variant A: with neighbourcell list (serving cell not included)
Variant B: with neighbourcell list (serving cell included)
Variant C: with empty neighbour cell list.
Variant D: same like A, but with ncc_permitted = 4
Preamble: ALR006
Variants: <A> .. <D>



Parametrization

Primitive	Parameter	Value
(1) MPH_CLASSMARK_REQ		
	classmark	CLASS_GSM_900

(2) MPH_IDLE_REQ

	mod	NOT_USED
	arfcn	ARFCN_23
	ext_bcch	NOT_USED
	comb_ccch	COMB_CCCH_NOT_COMB
	tn	TN_0
	dlt	DLT_10
	pg	PG_20
	bs_ag_blocks_res	BS_AG_BLKS_RES_3
	bs_pa_mfrms	BS_PA_MFRMS_4
	power	POWER_12
<A>	ncc_permitted	NOT_PRESENT_8BIT
<B>	ncc_permitted	NOT_PRESENT_8BIT
<C>	ncc_permitted	NOT_PRESENT_8BIT
<D>	ncc_permitted	NCC_PERMITTED_4
	reorg_only	NOT_USED

(3) MPHC_STOP_SCELL_BCCH_REQ

	param	NOT_USED

(4) MPHC_START_CCCH_REQ

	bs_pa_mfrms	BS_PA_MFRMS_6
	bs_ag_blks_res	BS_AG_BLKS_RES_3
	bcch_combined	COMB_CCCH_NOT_COMB
	ccch_group	CCCH_GROUP_0
	page_group	PG_20
	page_block_index	PBI_2
	page_mode	PGM_REORG

(5) MPHC_SCELL_NBCCH_REQ

	schedule_array_size	SCHED_SIZE_1
	schedule_array	NOT_USED

(6) MPH_IDENTITY_REQ

	mid	MS_ID_IMSI_TMSI

(7) MPH_CBCH_REQ

	cbch	NO_CBCH

(8) MPH_NEIGHBOURCELL_REQ

	multi_band	MULTI_BAND_0
<A>	arfcn	CHLIST_1_14_124_FFFF
<B>	arfcn	CHLIST_23_1_14_124_FFFF
<C>	arfcn	EMPTY_NCELL_LIST
<D>	arfcn	CHLIST_1_14_124_FFFF
	sync_only	NOT_USED

(9) MPHC_RXLEV_PERIODIC_REQ

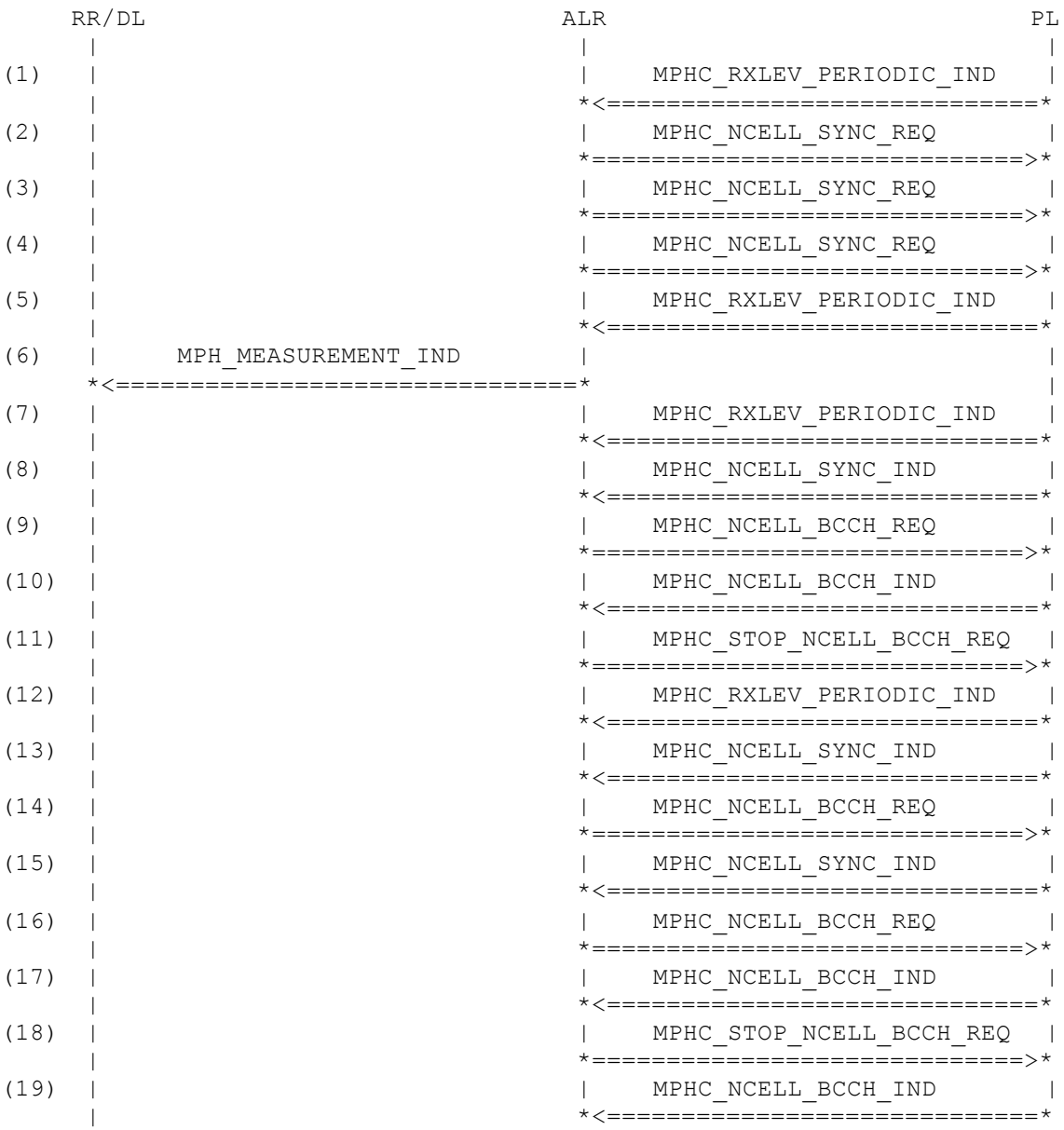
<A>	chan_list	CHLIST_23_1_14_124
<B>	chan_list	CHLIST_23_1_14_124
<C>	chan_list	CHLIST_23
<D>	chan_list	CHLIST_23_1_14_124
<A>	num_of_chans	CHANNELS_4
<B>	num_of_chans	CHANNELS_4
<C>	num_of_chans	CHANNELS_1
<D>	num_of_chans	CHANNELS_4
	ba_id	BA_ID_1
	next_radio_freq_measured	CHAN_LIST_IDX_0

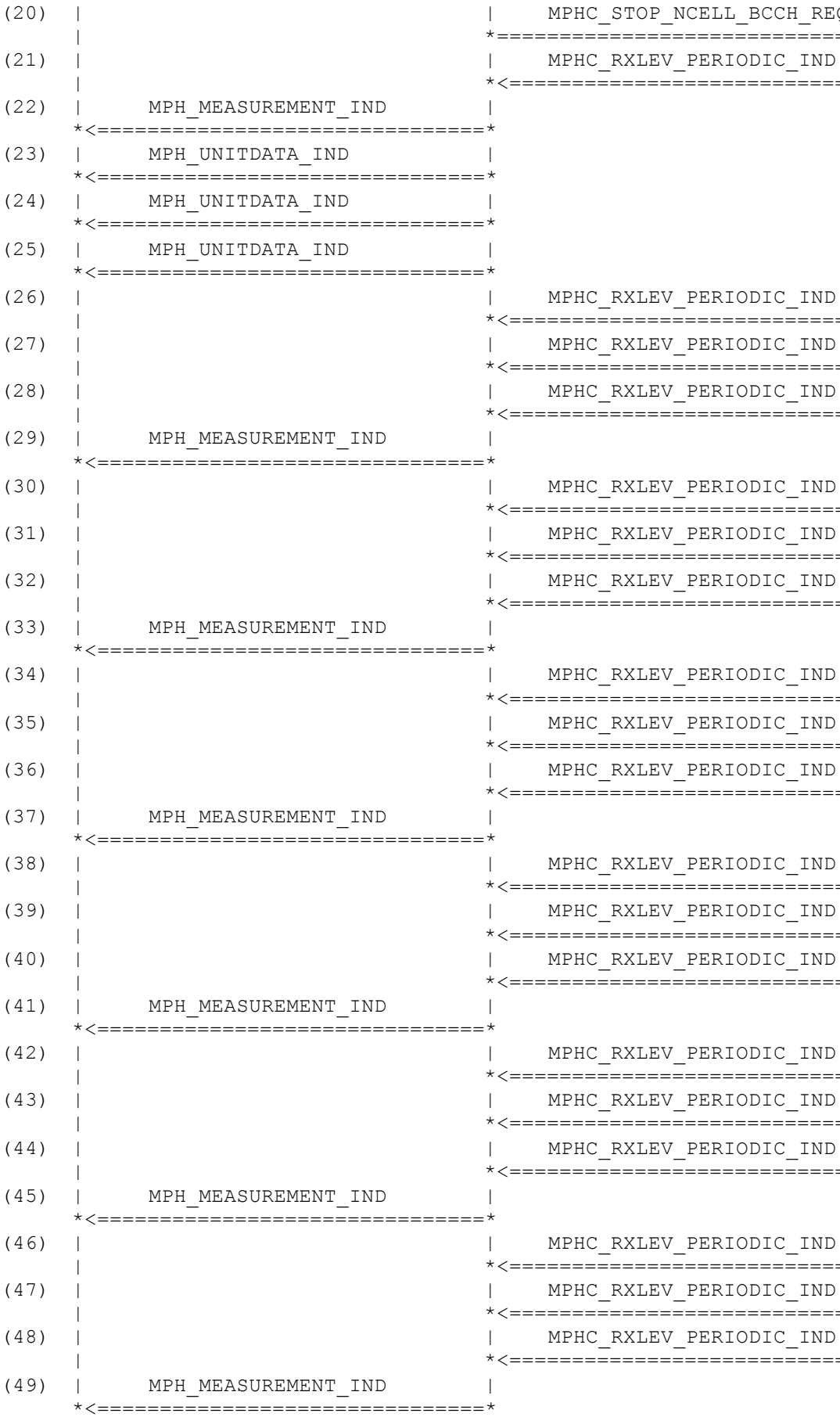
History:	10.11.99	LE Initial
12.07.00	DG	MPH_CLASSMARK_REQ: class changed into classmark (Forum G23M / No 0057)
07.02.02	LG	changed value for ba_id

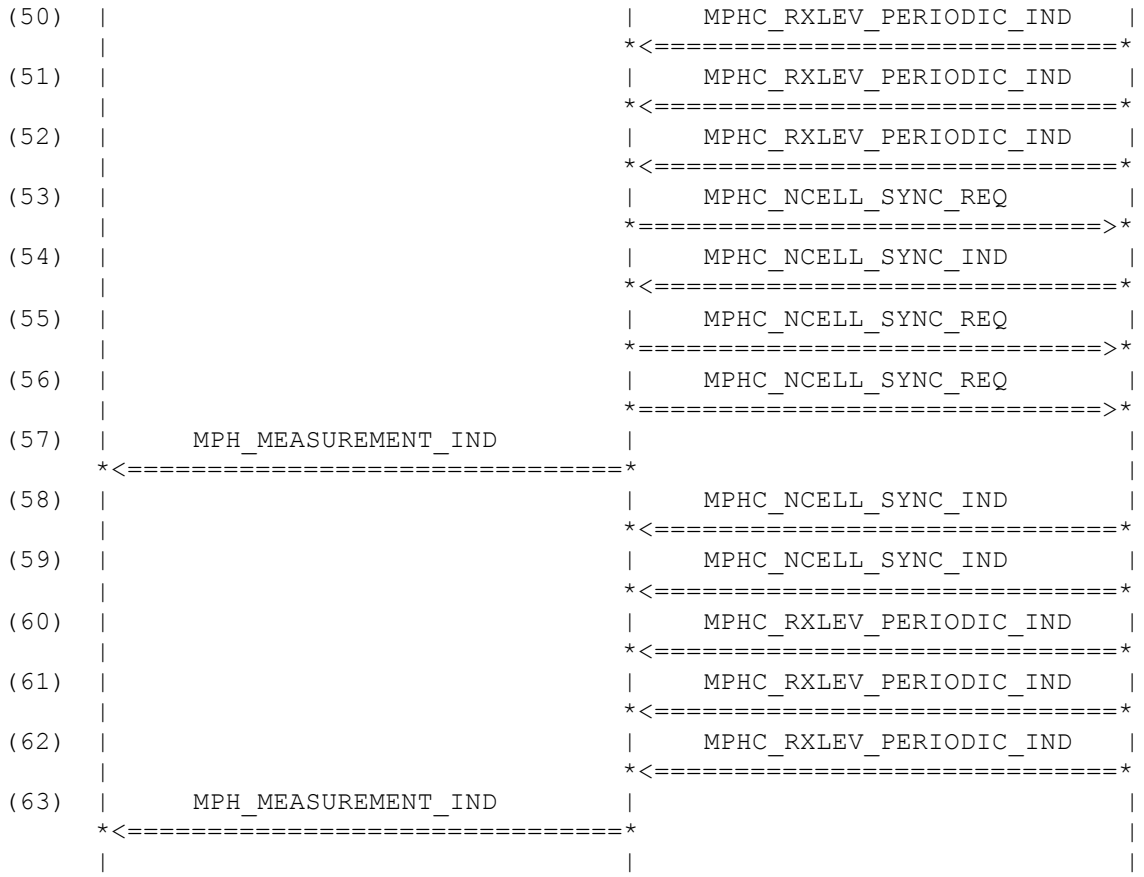
4.15.2 ALR047: Synchronisation to Neighbour Cells successfull

Description: The BA list contains the serving cell 23 and the neighbour cells 1, 14 and 124. The fieldstrength is 56 for channel 23, 12 for channel 1, 44 for channel 14 and 25 for channel 124 (all values in GSM range). The ranking for the neighbour cells is 14, 124 and channel 1. Each reports contains two fieldstrength values per channel. The multiframe period is set to 6. The first measurement report is send to RR after five reports from PL. Then after each three reports from PL a measurement report is send to RR.

Preamble: ALR046A




(20) | MPHC_STOP_NCELL_BCCH_REQ |
(21) | MPHC_RXLEV_PERIODIC_IND |
(22) | MPH_MEASUREMENT_IND |
(23) | MPH_UNITDATA_IND |
(24) | MPH_UNITDATA_IND |
(25) | MPH_UNITDATA_IND |
(26) | MPHC_RXLEV_PERIODIC_IND |
(27) | MPHC_RXLEV_PERIODIC_IND |
(28) | MPHC_RXLEV_PERIODIC_IND |
(29) | MPH_MEASUREMENT_IND |
(30) | MPHC_RXLEV_PERIODIC_IND |
(31) | MPHC_RXLEV_PERIODIC_IND |
(32) | MPHC_RXLEV_PERIODIC_IND |
(33) | MPH_MEASUREMENT_IND |
(34) | MPHC_RXLEV_PERIODIC_IND |
(35) | MPHC_RXLEV_PERIODIC_IND |
(36) | MPHC_RXLEV_PERIODIC_IND |
(37) | MPH_MEASUREMENT_IND |
(38) | MPHC_RXLEV_PERIODIC_IND |
(39) | MPHC_RXLEV_PERIODIC_IND |
(40) | MPHC_RXLEV_PERIODIC_IND |
(41) | MPH_MEASUREMENT_IND |
(42) | MPHC_RXLEV_PERIODIC_IND |
(43) | MPHC_RXLEV_PERIODIC_IND |
(44) | MPHC_RXLEV_PERIODIC_IND |
(45) | MPH_MEASUREMENT_IND |
(46) | MPHC_RXLEV_PERIODIC_IND |
(47) | MPHC_RXLEV_PERIODIC_IND |
(48) | MPHC_RXLEV_PERIODIC_IND |
(49) | MPH_MEASUREMENT_IND |



Parametrization

Primitive	Parameter	Value
(1) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(2) MPHC_NCELL_SYNC_REQ		
	radio_freq	ARFCN_14
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
(3) MPHC_NCELL_SYNC_REQ		
	radio_freq	ARFCN_124
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
(4) MPHC_NCELL_SYNC_REQ		
	radio_freq	ARFCN_1
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
(5) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8

	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(6) MPH_MEASUREMENT_IND		
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_918
	ncells	NCELLS_NO_CONTENT
	gprs_sync	NOT_USED
(7) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(8) MPHC_NCELL_SYNC_IND		
	radio_freq	ARFCN_14
	sb_flag	SB_FOUND
	fn_offset	FN_OFFSET_14
	time_alignment	TIME_ALIGNMT_14
	bsic	BSIC_1
(9) MPHC_NCELL_BCCH_REQ		
	radio_freq	ARFCN_14
	fn_offset	FN_OFFSET_14
	time_alignment	TIME_ALIGNMT_14
	tsc	BSIC_1
	bcch_blocks_required	NCELL_BCCH_SI_3_4
	gprs_prio	NOT_USED
(10) MPHC_NCELL_BCCH_IND		
	radio_freq	ARFCN_14
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_3
	tc	TC_2
	fn	FN_OFFSET_14
(11) MPHC_STOP_NCELL_BCCH_REQ		
	radio_freq_array_size	ONE_ELEM
	radio_freq_array	STOP_ARRAY_14
(12) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(13) MPHC_NCELL_SYNC_IND		
	radio_freq	ARFCN_124
	sb_flag	SB_FOUND
	fn_offset	FN_OFFSET_124
	time_alignment	TIME_ALIGNMT_124
	bsic	BSIC_1

(14) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_124
fn_offset	FN_OFFSET_124
time_alignment	TIME_ALIGNMT_124
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(15) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_1
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_1
time_alignment	TIME_ALIGNMT_1
bsic	BSIC_1

(16) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_1
fn_offset	FN_OFFSET_1
time_alignment	TIME_ALIGNMT_1
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(17) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_124
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_124

(18) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	ONE_ELEM
radio_freq_array	STOP_ARRAY_124

(19) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_1
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_1

(20) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	ONE_ELEM
radio_freq_array	STOP_ARRAY_1

(21) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(22) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT

fn_offset	FN_OFFSET_306
ncells	NCELLS_1_14_124
gprs_sync	NOT_USED

(23) MPH_UNITDATA_IND

arfcn	ARFCN_1
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(24) MPH_UNITDATA_IND

arfcn	ARFCN_14
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(25) MPH_UNITDATA_IND

arfcn	ARFCN_124
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(26) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(27) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(28) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(29) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_1_14_124
gprs_sync	NOT_USED

(30) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(31) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(32) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(33) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_1_14_124
gprs_sync	NOT_USED

(34) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(35) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(36) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(37) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_1_14_124
gprs_sync	NOT_USED

(38) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(39) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(40) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(41) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_1_14_124
gprs_sync	NOT_USED

(42) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(43) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(44) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(45) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_1_14_124
gprs_sync	NOT_USED

(46) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(47) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(48) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(49) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_1_14_124
gprs_sync	NOT_USED

(50) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(51) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(52) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(53) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_14
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
timing_validity	TV_VALID_TIMING_INFO

(54) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_14
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
bsic	BSIC_1

(55) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_124
fn_offset	FN_OFFSET_124
time_alignment	TIME_ALIGNMT_124
timing_validity	TV_VALID_TIMING_INFO

(56) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_1
fn_offset	FN_OFFSET_1
time_alignment	TIME_ALIGNMT_1
timing_validity	TV_VALID_TIMING_INFO

(57) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_1_14_124
gprs_sync	NOT_USED

(58) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_124
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_124
time_alignment	TIME_ALIGNMT_124
bsic	BSIC_1

(59) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_1
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_1

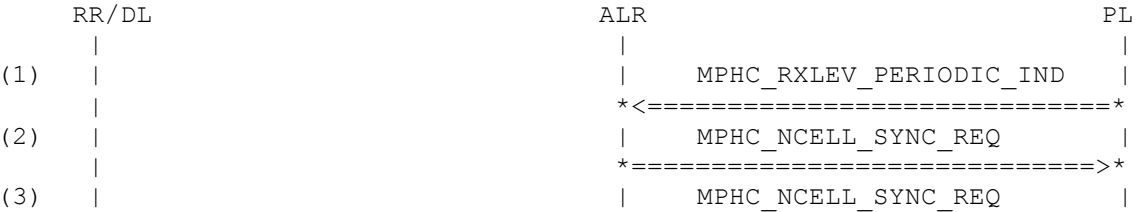
	time_alignment	TIME_ALIGNMT_1
	bsic	BSIC_1
(60) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(61) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(62) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(63) MPH_MEASUREMENT_IND		
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NCELLS_1_14_124
	gprs_sync	NOT_USED

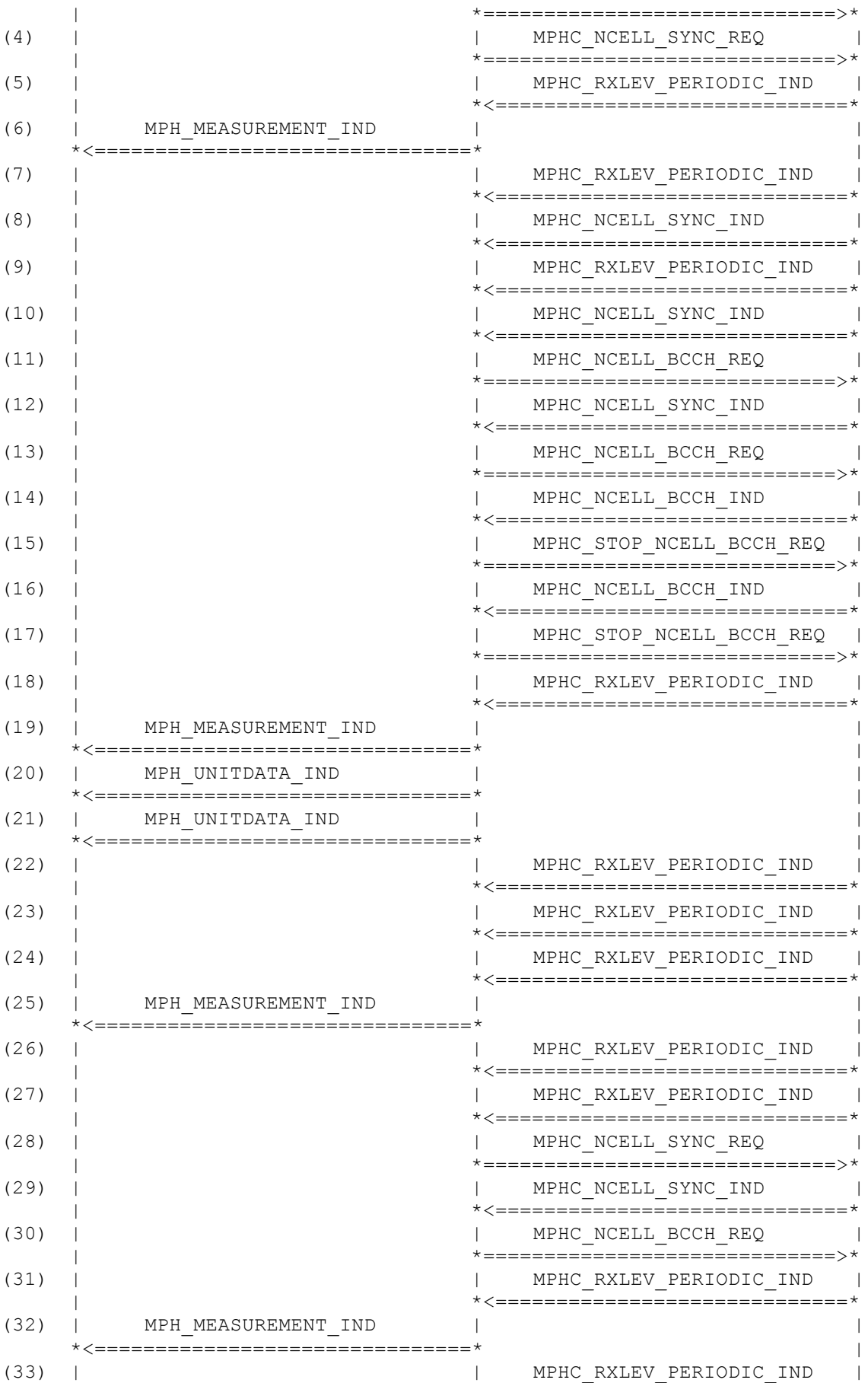
History:	24.09.99	MPA	Initial
	13.06.01	MSB	fn_offset in (6) corrected
	20.06.01	MSB	numbering of msc corrected
	07.02.02	LG	changed value for ba_id

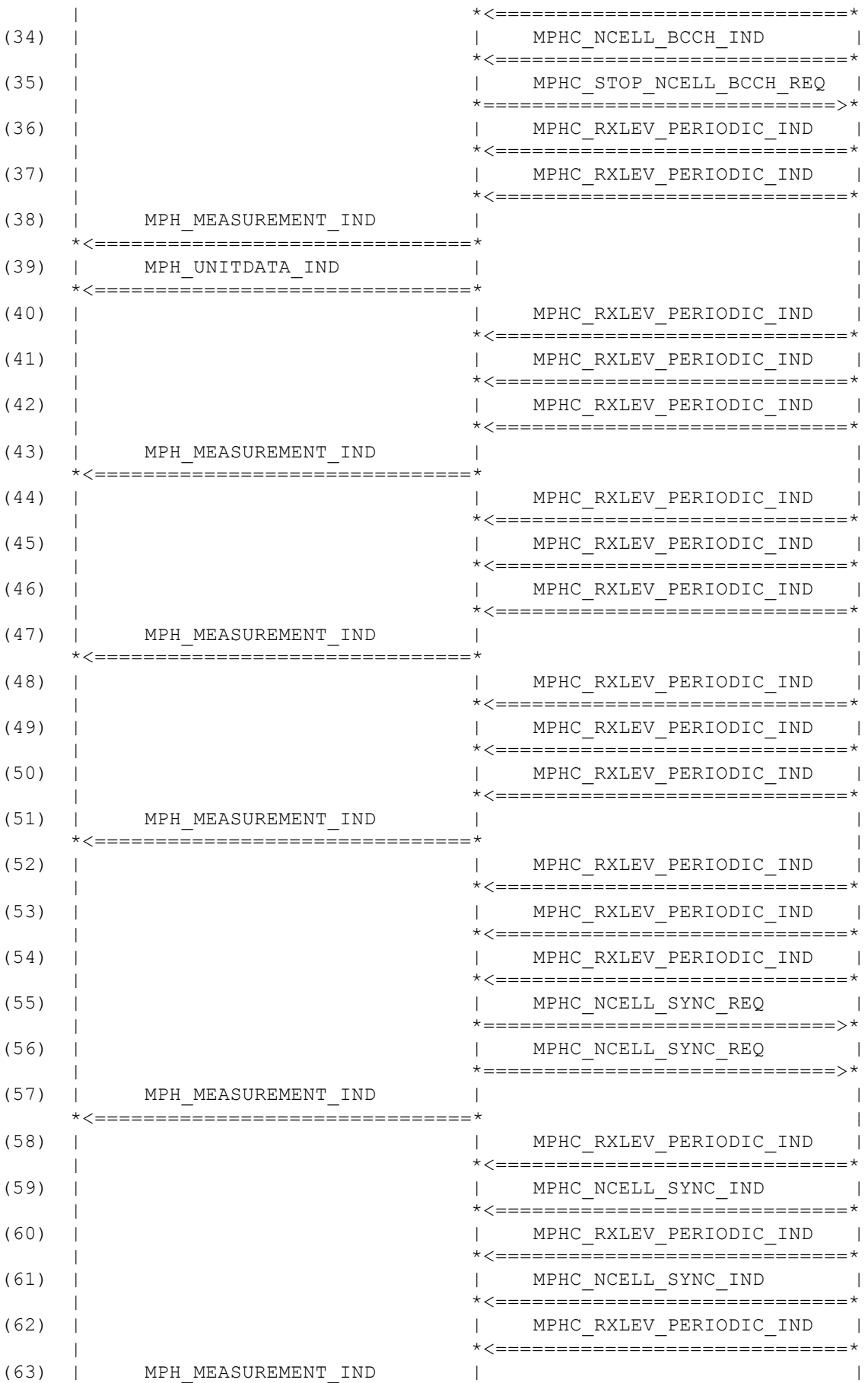
4.15.3 ALR048: Synchronisation to Neighbour Cells failed

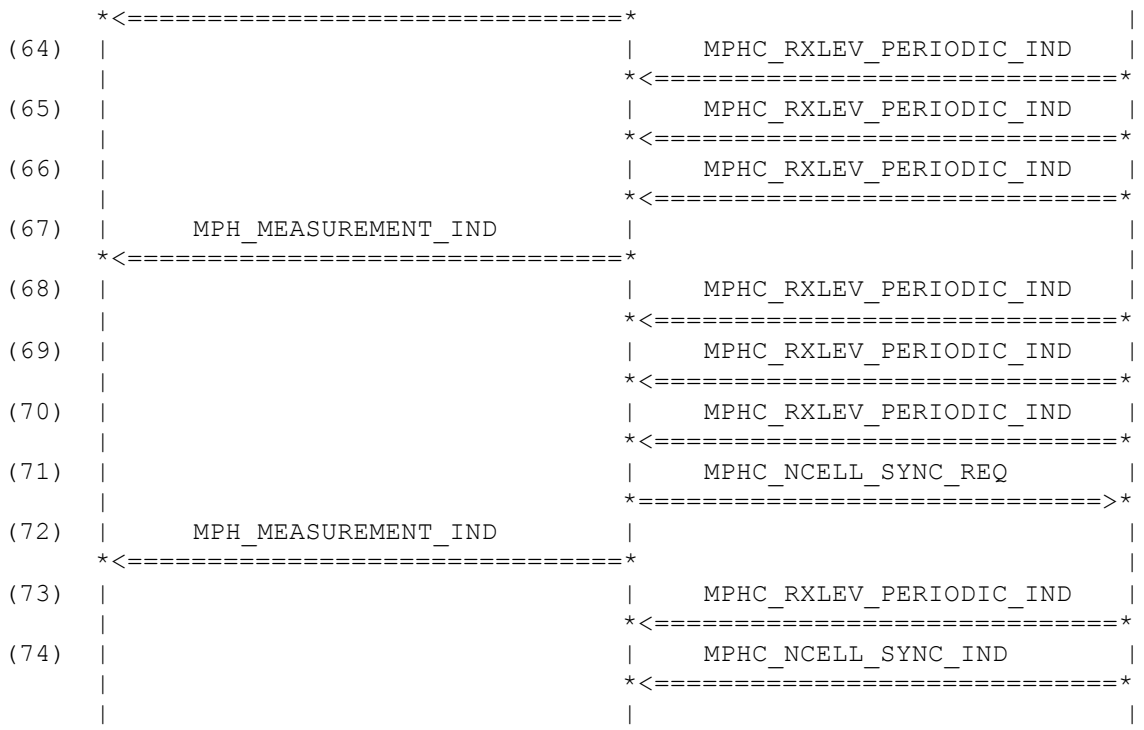
Description: The BA list contains the serving cell 23 and the neighbour cells 1, 14 and 124. The fieldstrength is 56 for channel 23, 12 for channel 1, 44 for channel 14 and 25 for channel 124 (all values in GSM range). The ranking for the neighbour cells is 14, 124 and at least channel 1. Each reports contains two fieldstrength values per channel. The multiframe period is set to 6. The first measurement report is send to RR after five reports from PL. Then after each three reports from PL a measurement report is send to RR. Synchronisation to channel 14 fails.

Preamble: ALR046A




(4) MPHC_NCELL_SYNC_REQ
(5) MPHC_RXLEV_PERIODIC_IND
(6) MPH_MEASUREMENT_IND
(7) MPHC_RXLEV_PERIODIC_IND
(8) MPHC_NCELL_SYNC_IND
(9) MPHC_RXLEV_PERIODIC_IND
(10) MPHC_NCELL_SYNC_IND
(11) MPHC_NCELL_BCCH_REQ
(12) MPHC_NCELL_SYNC_IND
(13) MPHC_NCELL_BCCH_REQ
(14) MPHC_NCELL_BCCH_IND
(15) MPHC_STOP_NCELL_BCCH_REQ
(16) MPHC_NCELL_BCCH_IND
(17) MPHC_STOP_NCELL_BCCH_REQ
(18) MPHC_RXLEV_PERIODIC_IND
(19) MPH_MEASUREMENT_IND
(20) MPH_UNITDATA_IND
(21) MPH_UNITDATA_IND
(22) MPHC_RXLEV_PERIODIC_IND
(23) MPHC_RXLEV_PERIODIC_IND
(24) MPHC_RXLEV_PERIODIC_IND
(25) MPH_MEASUREMENT_IND
(26) MPHC_RXLEV_PERIODIC_IND
(27) MPHC_RXLEV_PERIODIC_IND
(28) MPHC_NCELL_SYNC_REQ
(29) MPHC_NCELL_SYNC_IND
(30) MPHC_NCELL_BCCH_REQ
(31) MPHC_RXLEV_PERIODIC_IND
(32) MPH_MEASUREMENT_IND
(33) MPHC_RXLEV_PERIODIC_IND


(34) MPHC_NCELL_BCCH_IND
(35) MPHC_STOP_NCELL_BCCH_REQ
(36) MPHC_RXLEV_PERIODIC_IND
(37) MPHC_RXLEV_PERIODIC_IND
(38) MPH_MEASUREMENT_IND
(39) MPH_UNITDATA_IND
(40) MPHC_RXLEV_PERIODIC_IND
(41) MPHC_RXLEV_PERIODIC_IND
(42) MPHC_RXLEV_PERIODIC_IND
(43) MPH_MEASUREMENT_IND
(44) MPHC_RXLEV_PERIODIC_IND
(45) MPHC_RXLEV_PERIODIC_IND
(46) MPHC_RXLEV_PERIODIC_IND
(47) MPH_MEASUREMENT_IND
(48) MPHC_RXLEV_PERIODIC_IND
(49) MPHC_RXLEV_PERIODIC_IND
(50) MPHC_RXLEV_PERIODIC_IND
(51) MPH_MEASUREMENT_IND
(52) MPHC_RXLEV_PERIODIC_IND
(53) MPHC_RXLEV_PERIODIC_IND
(54) MPHC_RXLEV_PERIODIC_IND
(55) MPHC_NCELL_SYNC_REQ
(56) MPHC_NCELL_SYNC_REQ
(57) MPH_MEASUREMENT_IND
(58) MPHC_RXLEV_PERIODIC_IND
(59) MPHC_NCELL_SYNC_IND
(60) MPHC_RXLEV_PERIODIC_IND
(61) MPHC_NCELL_SYNC_IND
(62) MPHC_RXLEV_PERIODIC_IND
(63) MPH_MEASUREMENT_IND



Parametrization

Primitive	Parameter	Value
(1) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(2) MPHC_NCELL_SYNC_REQ		
	radio_freq	ARFCN_14
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
(3) MPHC_NCELL_SYNC_REQ		
	radio_freq	ARFCN_124
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
(4) MPHC_NCELL_SYNC_REQ		
	radio_freq	ARFCN_1
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
(5) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(6) MPH_MEASUREMENT_IND		
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56

rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_918
ncells	NCELLS_NO_CONTENT
gprs_sync	NOT_USED

(7) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(8) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_14
sb_flag	NO_SB_FOUND
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
bsic	BSIC_1

(9) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(10) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_124
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_124
time_alignment	TIME_ALIGNMT_124
bsic	BSIC_1

(11) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_124
fn_offset	FN_OFFSET_124
time_alignment	TIME_ALIGNMT_124
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(12) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_1
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_1
time_alignment	TIME_ALIGNMT_1
bsic	BSIC_1

(13) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_1
fn_offset	FN_OFFSET_1
time_alignment	TIME_ALIGNMT_1
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(14) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_1
l2_channel	L2_CHANNEL_NBCCH

error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_1

(15) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	ONE_ELEM
radio_freq_array	STOP_ARRAY_1

(16) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_124
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_124

(17) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	ONE_ELEM
radio_freq_array	STOP_ARRAY_124

(18) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(19) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_1_124
gprs_sync	NOT_USED

(20) MPH_UNITDATA_IND

arfcn	ARFCN_1
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(21) MPH_UNITDATA_IND

arfcn	ARFCN_124
fn	NOT_USED
sdu	

{
component RR
direction DOWNLINK
pd D_SYS_INFO_3
ti TI_0
cell_ident CELL_IDENT_1
loc_area_ident LOC_AREA_IDENT_1
ctrl_chan_desc CTRL_CHAN_DESC_1
cell_opt_bcch CELL_OPT_BCCH_1
cell_select CELL_SELECT_1
rach_ctrl RACH_CTRL_1
}

(22) MPHC_RXLEV_PERIODIC_IND

result NCELL_RESULT_1
nbr_of_carriers CHANNELS_8
s_rxlev RXLEV_56
ba_id BA_ID_1

(23) MPHC_RXLEV_PERIODIC_IND

result NCELL_RESULT_1
nbr_of_carriers CHANNELS_8
s_rxlev RXLEV_56
ba_id BA_ID_1

(24) MPHC_RXLEV_PERIODIC_IND

result NCELL_RESULT_1
nbr_of_carriers CHANNELS_8
s_rxlev RXLEV_56
ba_id BA_ID_1

(25) MPH_MEASUREMENT_IND

arfcn ARFCN_23
rx_lev_full RXLEV_56
rx_lev_sub NOT_USED
rx_qual_full NOT_USED
rx_qual_sub NOT_USED
dtx NOT_USED
otd NOT_USED
valid VALID_REPORT
fn_offset FN_OFFSET_306
ncells NCELLS_1_124
gprs_sync NOT_USED

(26) MPHC_RXLEV_PERIODIC_IND

result NCELL_RESULT_1
nbr_of_carriers CHANNELS_8
s_rxlev RXLEV_56
ba_id BA_ID_1

(27) MPHC_RXLEV_PERIODIC_IND

result NCELL_RESULT_1
nbr_of_carriers CHANNELS_8
s_rxlev RXLEV_56
ba_id BA_ID_1

(28) MPHC_NCELL_SYNC_REQ

radio_freq ARFCN_14
fn_offset NOT_USED
time_alignment NOT_USED
timing_validity TV_INVALID_TIMING_INFO

(29) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_14
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
bsic	BSIC_1

(30) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_14
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(31) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(32) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_1_124
gprs_sync	NOT_USED

(33) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(34) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_14
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_14

(35) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	ONE_ELEM
radio_freq_array	STOP_ARRAY_14

(36) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(37) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8

	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(38) MPH_MEASUREMENT_IND		
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NCELLS_1_14_124
	gprs_sync	NOT_USED
(39) MPH_UNITDATA_IND		
	arfcn	ARFCN_14
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_3
	ti	TI_0
	cell_ident	CELL_IDENT_1
	loc_area_ident	LOC_AREA_IDENT_1
	ctrl_chan_desc	CTRL_CHAN_DESC_1
	cell_opt_bcch	CELL_OPT_BCCH_1
	cell_select	CELL_SELECT_1
	rach_ctrl	RACH_CTRL_1
	}	
(40) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(41) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(42) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(43) MPH_MEASUREMENT_IND		
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306

	ncells	NCELLS_1_14_124
	gprs_sync	NOT_USED
(44) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(45) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(46) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(47) MPH_MEASUREMENT_IND		
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NCELLS_1_14_124
	gprs_sync	NOT_USED
(48) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(49) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(50) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(51) MPH_MEASUREMENT_IND		
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306

	ncells	NCELLS_1_14_124
	gprs_sync	NOT_USED
(52) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(53) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(54) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(55) MPHC_NCELL_SYNC_REQ		
	radio_freq	ARFCN_124
	fn_offset	FN_OFFSET_124
	time_alignment	TIME_ALIGNMT_124
	timing_validity	TV_VALID_TIMING_INFO
(56) MPHC_NCELL_SYNC_REQ		
	radio_freq	ARFCN_1
	fn_offset	FN_OFFSET_1
	time_alignment	TIME_ALIGNMT_1
	timing_validity	TV_VALID_TIMING_INFO
(57) MPH_MEASUREMENT_IND		
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NCELLS_1_14_124
	gprs_sync	NOT_USED
(58) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(59) MPHC_NCELL_SYNC_IND		
	radio_freq	ARFCN_124
	sb_flag	SB_FOUND
	fn_offset	FN_OFFSET_124
	time_alignment	TIME_ALIGNMT_124
	bsic	BSIC_1
(60) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8

	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(61) MPHC_NCELL_SYNC_IND		
	radio_freq	ARFCN_1
	sb_flag	SB_FOUND
	fn_offset	FN_OFFSET_1
	time_alignment	TIME_ALIGNMT_1
	bsic	BSIC_1
(62) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(63) MPH_MEASUREMENT_IND		
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NCELLS_1_14_124
	gprs_sync	NOT_USED
(64) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(65) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(66) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(67) MPH_MEASUREMENT_IND		
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NCELLS_1_14_124
	gprs_sync	NOT_USED
(68) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1

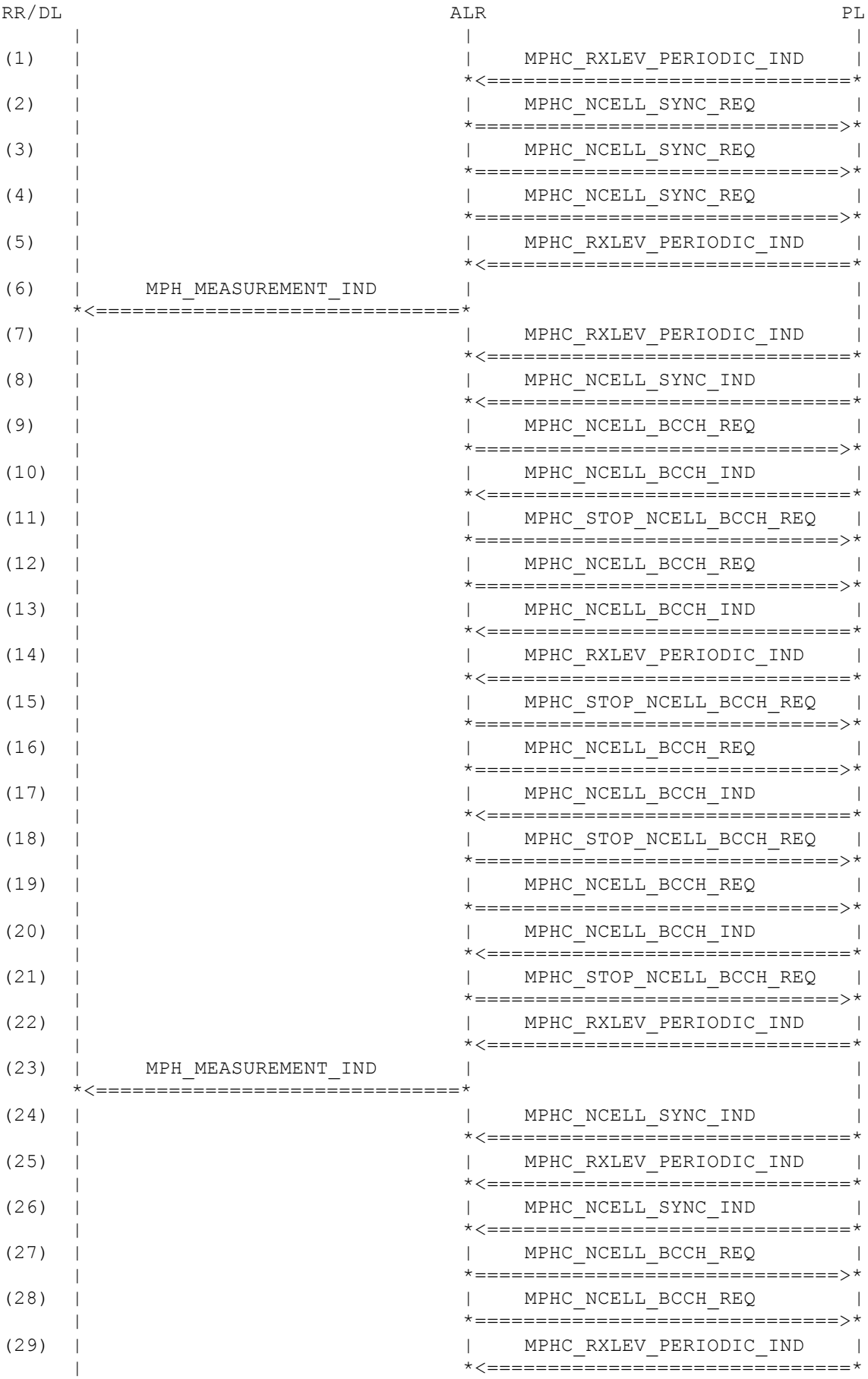
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(69) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(70) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(71) MPHC_NCELL_SYNC_REQ		
	radio_freq	ARFCN_14
	fn_offset	FN_OFFSET_14
	time_alignment	TIME_ALIGNMT_14
	timing_validity	TV_VALID_TIMING_INFO
(72) MPH_MEASUREMENT_IND		
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NCELLS_1_14_124
	gprs_sync	NOT_USED
(73) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(74) MPHC_NCELL_SYNC_IND		
	radio_freq	ARFCN_14
	sb_flag	SB_FOUND
	fn_offset	FN_OFFSET_14
	time_alignment	TIME_ALIGNMT_14
	bsic	BSIC_1

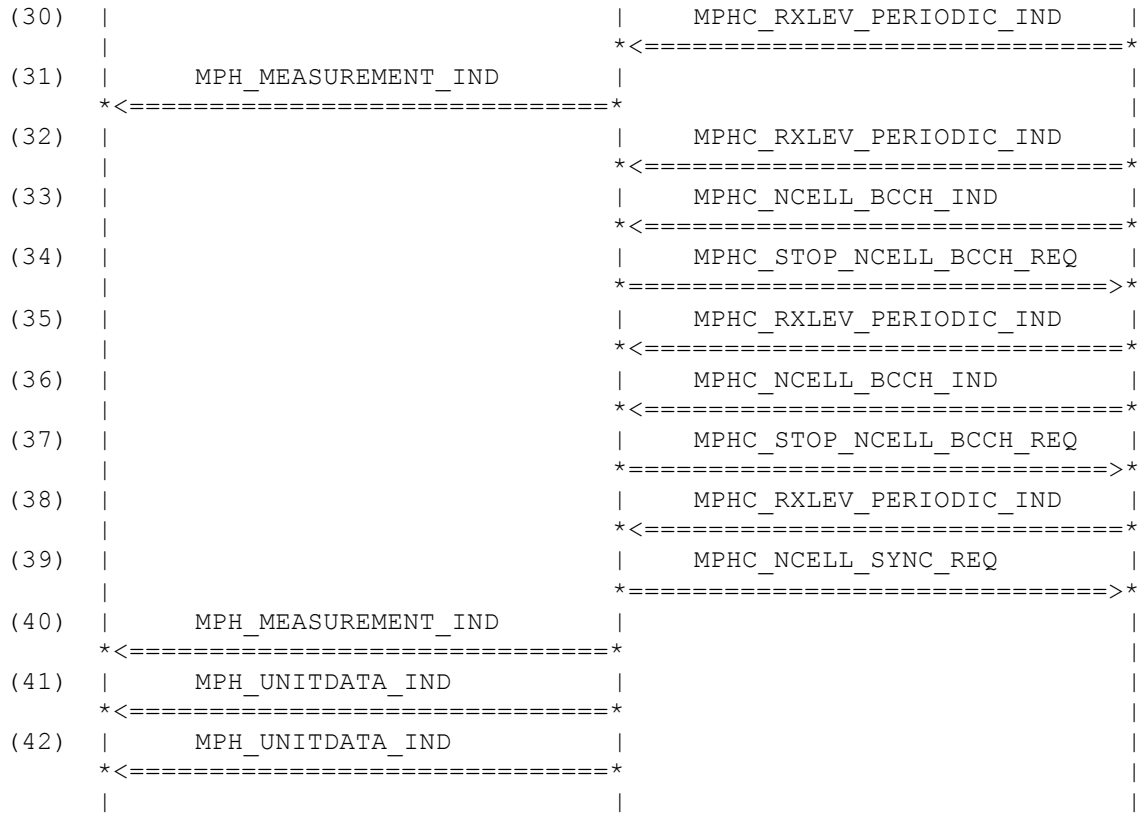
History:			
	24.09.99	MPA	Initial
	20.06.01	MSB	fn_offset in (6) corrected,
	20.06.01	MSB	numbering of msc corrected
	07.02.02	LG	changed value for ba_id

4.15.4 ALR053: Reading of Neighbour Cell BCCH, failed

Description: ALR requests successive reading of BCCH for all neighbour cells. This failed for channel 14.

Preamble: ALR046A


RR/DL
ALR
PL
(1) MPHC_RXLEV_PERIODIC_IND
(2) MPHC_NCELL_SYNC_REQ
(3) MPHC_NCELL_SYNC_REQ
(4) MPHC_NCELL_SYNC_REQ
(5) MPHC_RXLEV_PERIODIC_IND
(6) MPH_MEASUREMENT_IND
(7) MPHC_RXLEV_PERIODIC_IND
(8) MPHC_NCELL_SYNC_IND
(9) MPHC_NCELL_BCCH_REQ
(10) MPHC_NCELL_BCCH_IND
(11) MPHC_STOP_NCELL_BCCH_REQ
(12) MPHC_NCELL_BCCH_REQ
(13) MPHC_NCELL_BCCH_IND
(14) MPHC_RXLEV_PERIODIC_IND
(15) MPHC_STOP_NCELL_BCCH_REQ
(16) MPHC_NCELL_BCCH_REQ
(17) MPHC_NCELL_BCCH_IND
(18) MPHC_STOP_NCELL_BCCH_REQ
(19) MPHC_NCELL_BCCH_REQ
(20) MPHC_NCELL_BCCH_IND
(21) MPHC_STOP_NCELL_BCCH_REQ
(22) MPHC_RXLEV_PERIODIC_IND
(23) MPH_MEASUREMENT_IND
(24) MPHC_NCELL_SYNC_IND
(25) MPHC_RXLEV_PERIODIC_IND
(26) MPHC_NCELL_SYNC_IND
(27) MPHC_NCELL_BCCH_REQ
(28) MPHC_NCELL_BCCH_REQ
(29) MPHC_RXLEV_PERIODIC_IND



Parametrization

Primitive	Parameter	Value
(1) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(2) MPHC_NCELL_SYNC_REQ		
	radio_freq	ARFCN_14
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
(3) MPHC_NCELL_SYNC_REQ		
	radio_freq	ARFCN_124
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
(4) MPHC_NCELL_SYNC_REQ		
	radio_freq	ARFCN_1
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
(5) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1

(6) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_918
ncells	NCELLS_NO_CONTENT
gprs_sync	NOT_USED

(7) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(8) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_14
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
bsic	BSIC_1

(9) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_14
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(10) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_14
l2_channel	L2_CHANNEL_NBCCH
error_flag	INVALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_14

(11) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	ONE_ELEM
radio_freq_array	STOP_ARRAY_14

(12) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_14
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(13) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_14
l2_channel	L2_CHANNEL_NBCCH
error_flag	INVALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_14

(14) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(15) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	ONE_ELEM
radio_freq_array	STOP_ARRAY_14

(16) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_14
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(17) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_14
l2_channel	L2_CHANNEL_NBCCH
error_flag	INVALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_14

(18) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	ONE_ELEM
radio_freq_array	STOP_ARRAY_14

(19) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_14
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(20) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_14
l2_channel	L2_CHANNEL_NBCCH
error_flag	INVALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_14

(21) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	ONE_ELEM
radio_freq_array	STOP_ARRAY_14

(22) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(23) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED

dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_NO_CONTENT
gprs_sync	NOT_USED

(24) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_124
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_124
time_alignment	TIME_ALIGNMT_124
bsic	BSIC_1

(25) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(26) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_1
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_1
time_alignment	TIME_ALIGNMT_1
bsic	BSIC_1

(27) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_124
fn_offset	FN_OFFSET_124
time_alignment	TIME_ALIGNMT_124
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(28) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_1
fn_offset	FN_OFFSET_1
time_alignment	TIME_ALIGNMT_1
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(29) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(30) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(31) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED

	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NCELLS_NO_CONTENT
	gprs_sync	NOT_USED
(32) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(33) MPHC_NCELL_BCCH_IND		
	radio_freq	ARFCN_124
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_3
	tc	TC_2
	fn	FN_OFFSET_124
(34) MPHC_STOP_NCELL_BCCH_REQ		
	radio_freq_array_size	ONE_ELEM
	radio_freq_array	STOP_ARRAY_124
(35) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(36) MPHC_NCELL_BCCH_IND		
	radio_freq	ARFCN_1
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_3
	tc	TC_2
	fn	FN_OFFSET_1
(37) MPHC_STOP_NCELL_BCCH_REQ		
	radio_freq_array_size	ONE_ELEM
	radio_freq_array	STOP_ARRAY_1
(38) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(39) MPHC_NCELL_SYNC_REQ		
	radio_freq	ARFCN_14
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
(40) MPH_MEASUREMENT_IND		
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED

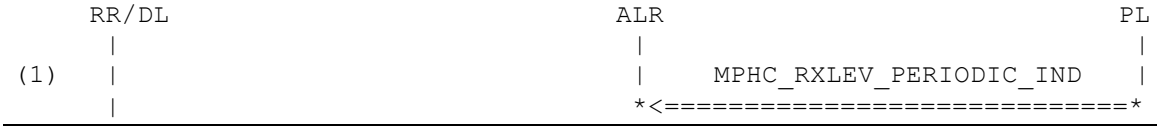
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NCELLS_1_124
	gprs_sync	NOT_USED
(41) MPH_UNITDATA_IND		
	arfcn	ARFCN_1
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_3
	ti	TI_0
	cell_ident	CELL_IDENT_1
	loc_area_ident	LOC_AREA_IDENT_1
	ctrl_chan_desc	CTRL_CHAN_DESC_1
	cell_opt_bcch	CELL_OPT_BCCH_1
	cell_select	CELL_SELECT_1
	rach_ctrl	RACH_CTRL_1
	}	
(42) MPH_UNITDATA_IND		
	arfcn	ARFCN_124
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_3
	ti	TI_0
	cell_ident	CELL_IDENT_1
	loc_area_ident	LOC_AREA_IDENT_1
	ctrl_chan_desc	CTRL_CHAN_DESC_1
	cell_opt_bcch	CELL_OPT_BCCH_1
	cell_select	CELL_SELECT_1
	rach_ctrl	RACH_CTRL_1
	}	

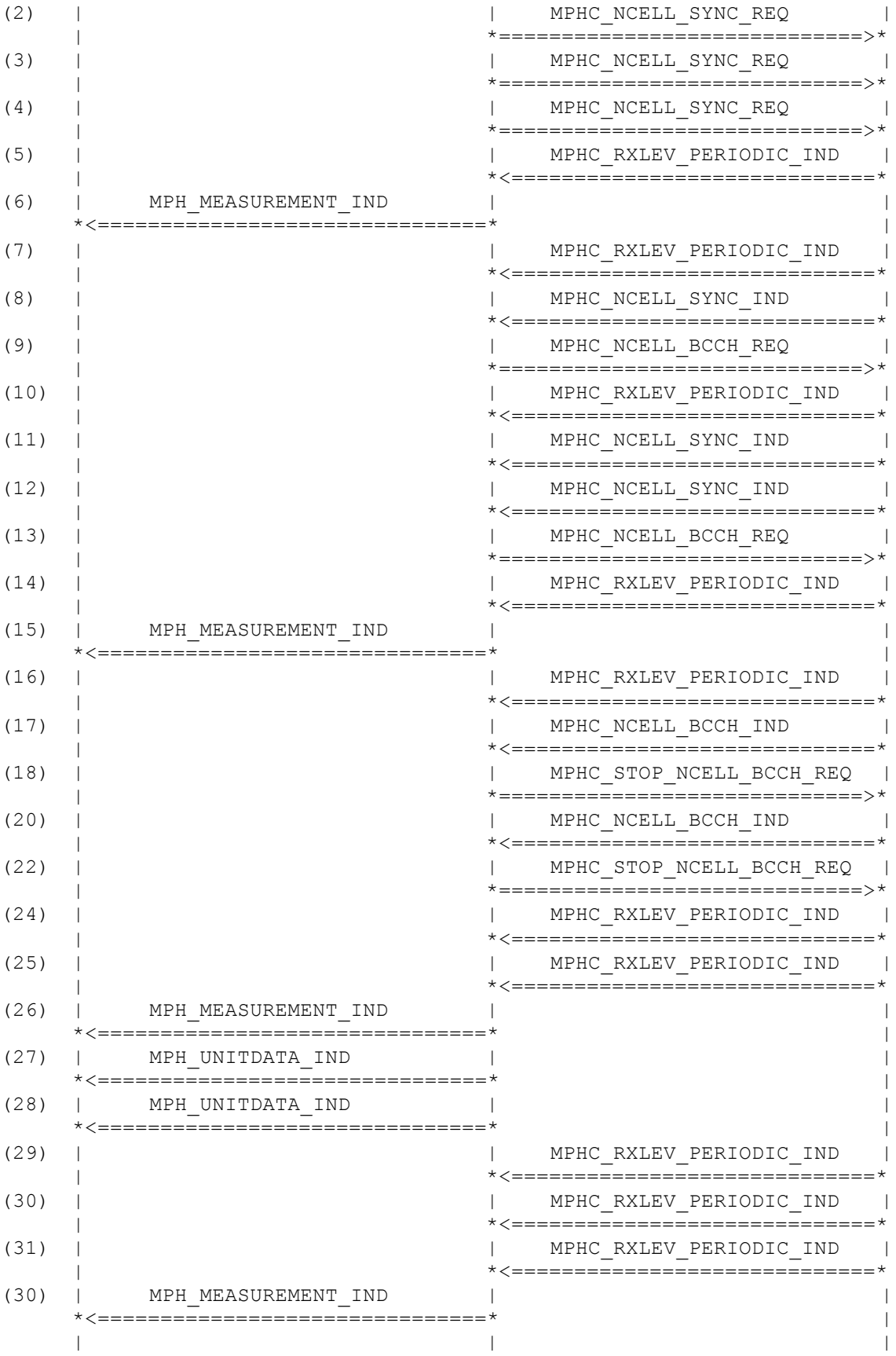
History:			
	08.12.99	MPA	Initial
	20.06.01	MSB	fn_offset in (6) corrected
	07.02.02	LG	changed value for ba_id

4.15.5 ALR061: Ncell-Synch, NCC permitted Check

Description: The BA list contains the serving cell 23 and the neighbour cells 1, 14 and 124. The fieldstrength is 56 for channel 23, 12 for channel 1, 44 for channel 14 and 25 for channel 124 (all values in GSM range). The ranking for the neighbour cells is 14, 124 and channel 1. Each reports contains two fieldstrength values per channel. The multiframe period is set to 6. The first measurement report is send to RR after five reports from PL. Then after each three reports from PL a measurement report is send to RR. The NCC permitted check for neighbour cell 124 fails. The cell shall be excluded from further attempts.

Preamble: ALR046D





Parametrization

Primitive	Parameter	Value

(1) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(2) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_14
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_INVALID_TIMING_INFO

(3) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_124
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_INVALID_TIMING_INFO

(4) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_1
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_INVALID_TIMING_INFO

(5) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(6) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_918
ncells	NCELLS_NO_CONTENT
gprs_sync	NOT_USED

(7) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(8) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_14
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
bsic	BSIC_16

(9) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_14
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
tsc	BSIC_0

	bcch_blocks_required	NCELL_BCCH_SI_3_4
	gprs_prio	NOT_USED

(10) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(11) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_124
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_124
time_alignment	TIME_ALIGNMT_124
bsic	BSIC_1

(12) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_1
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_1
time_alignment	TIME_ALIGNMT_1
bsic	BSIC_16

(13) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_1
fn_offset	FN_OFFSET_1
time_alignment	TIME_ALIGNMT_1
tsc	BSIC_0
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(14) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(15) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_NO_CONTENT
gprs_sync	NOT_USED

(16) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(17) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_14
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3

	tc	TC_2
	fn	FN_OFFSET_14
(18) MPHC_STOP_NCELL_BCCH_REQ		
	radio_freq_array_size	STOP_SIZE_1
	radio_freq_array	STOP_ARRAY_14
(19) MPHC_NCELL_BCCH_IND		
	radio_freq	ARFCN_1
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_3
	tc	TC_2
	fn	FN_OFFSET_1
(20) MPHC_STOP_NCELL_BCCH_REQ		
	radio_freq_array_size	STOP_SIZE_1
	radio_freq_array	STOP_ARRAY_1
(21) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(22) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(23) MPH_MEASUREMENT_IND		
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NCELLS_1_14_NCC
	gprs_sync	NOT_USED
(24) MPH_UNITDATA_IND		
	arfcn	ARFCN_1
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_3
	ti	TI_0
	cell_ident	CELL_IDENT_1
	loc_area_ident	LOC_AREA_IDENT_1
	ctrl_chan_desc	CTRL_CHAN_DESC_1
	cell_opt_bcch	CELL_OPT_BCCH_1
	cell_select	CELL_SELECT_1
	rach_ctrl	RACH_CTRL_1
	}	

(25) MPH_UNITDATA_IND

arfcn	ARFCN_14
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(26) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(27) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(28) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(29) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_1_14_NCC
gprs_sync	NOT_USED

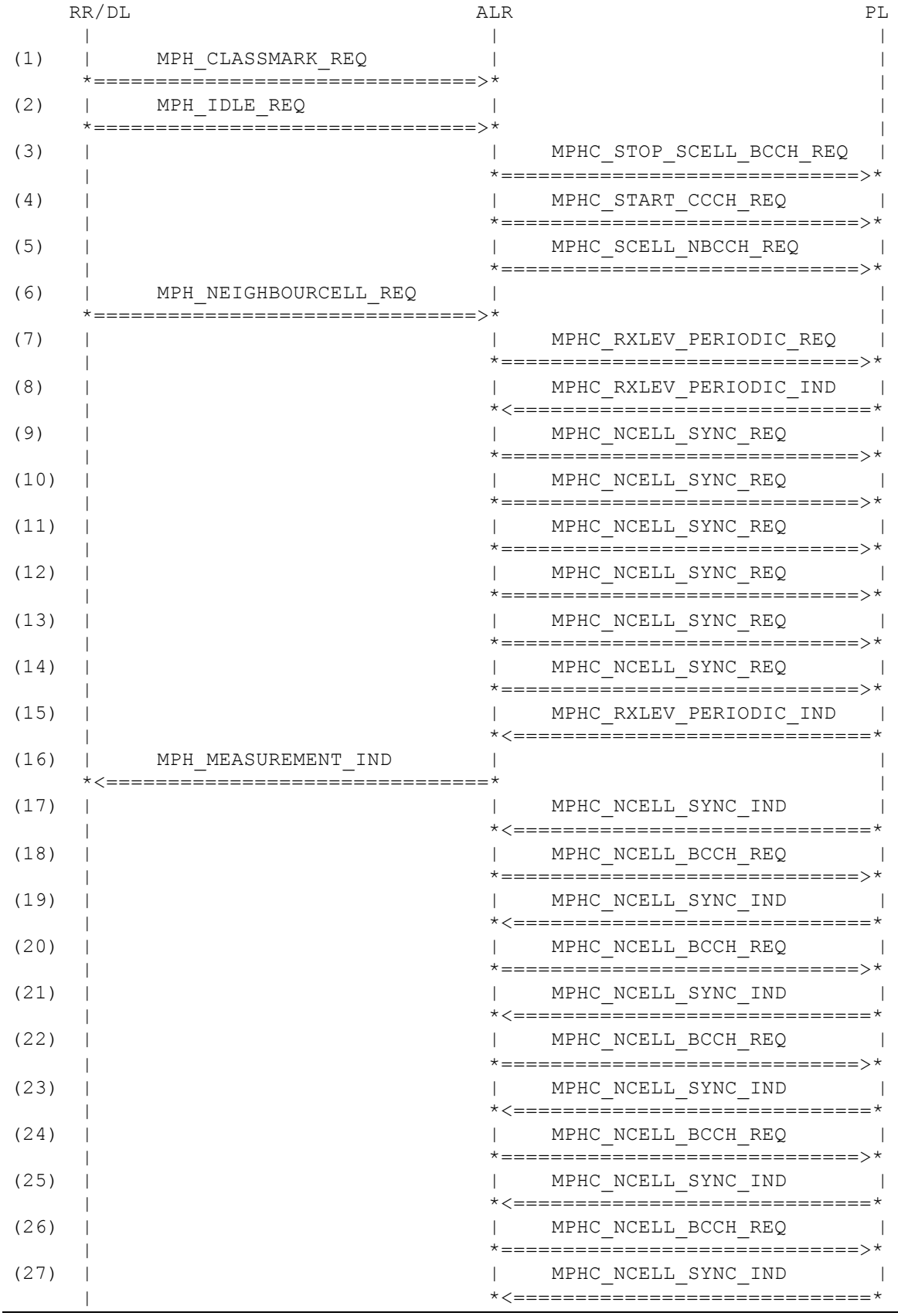
History:			
	08.12.99	MPA	Initial
	20.06.01	MSB	fn_offset in (6) corrected
	07.02.02	LG	changed value for ba_id

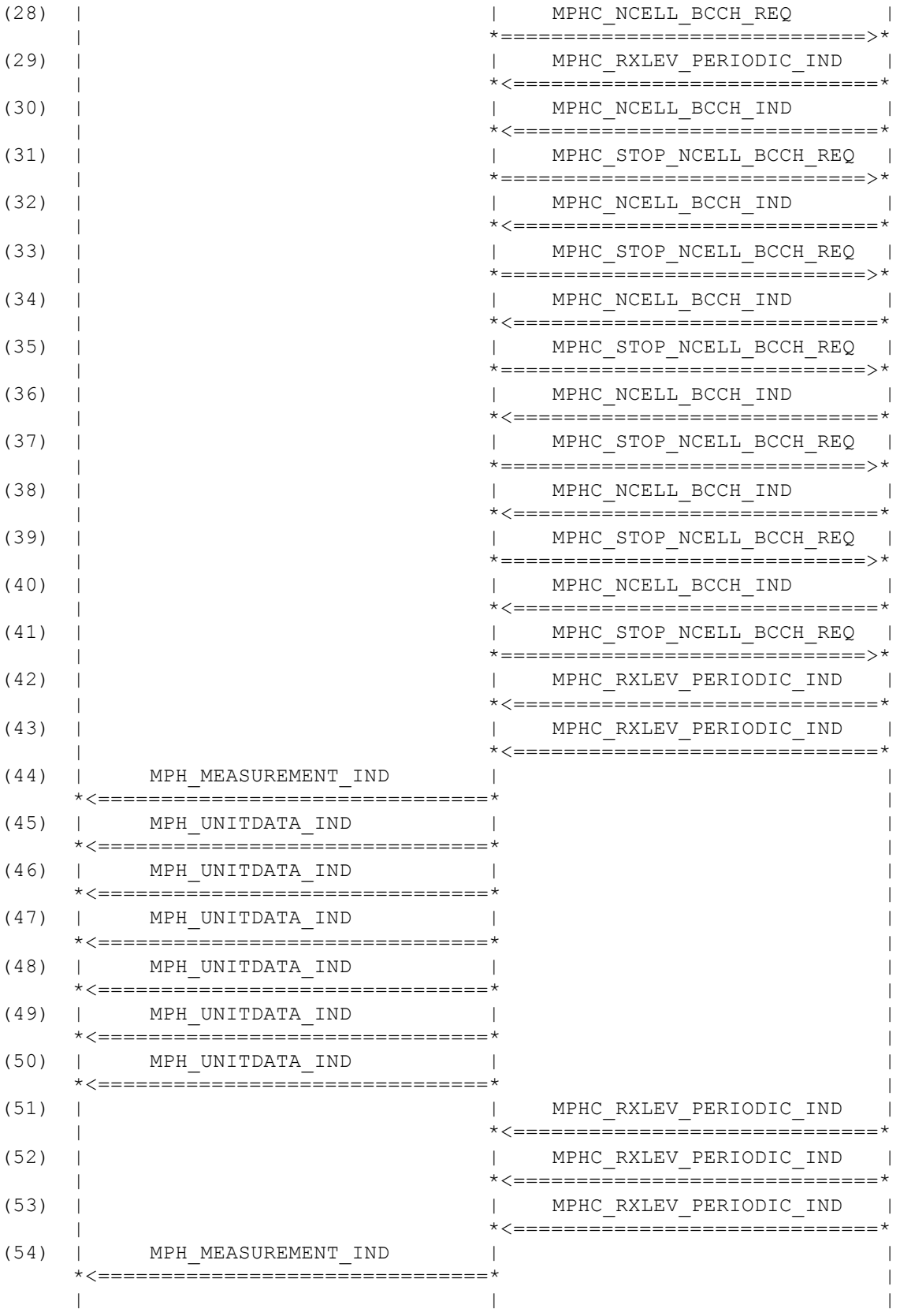
4.15.6 ALR650: Multiband = 0, Serving Cell is GSM 900, 8 channels

Description: The multiband parameter is set to 0, that means the neighbourcells are ranked after the fieldstrength. The serving cell is 23 (that means in the GSM 900 frequency band).

The neighbourcell list contains eight channels : 1, 14, 25, 124, 512 580, 637 and 885. It is expected, that ALR starts synchronization to the six strongest cells 637, 25, 14, 512, 580, , 885. This channels must be included in the measurement report to RR.

Preamble: ALR607





Parametrization

Primitive	Parameter	Value

(1) MPH_CLASSMARK_REQ

classmark	CLASS_DUAL

(2) MPH_IDLE_REQ

mod	NOT_USED
arfcn	ARFCN_23
ext_bcch	NOT_USED
comb_ccch	COMB_CCCH_NOT_COMB
tn	TN_0
dlt	DLT_10
pg	PG_20
bs_ag_blocks_res	BS_AG_BLKS_RES_3
bs_pa_mfrms	BS_PA_MFRMS_4
power	POWER_12
ncc_permitted	NOT_PRESENT_8BIT
reorg_only	NOT_USED

(3) MPHC_STOP_SCELL_BCCH_REQ

param	NOT_USED

(4) MPHC_START_CCCH_REQ

bs_pa_mfrms	BS_PA_MFRMS_6
bs_ag_blks_res	BS_AG_BLKS_RES_3
bcch_combined	COMB_CCCH_NOT_COMB
ccch_group	CCCH_GROUP_0
page_group	PG_20
page_block_index	PBI_2
page_mode	PGM_REORG

(5) MPHC_SCELL_NBCCH_REQ

schedule_array_size	SCHED_SIZE_1
schedule_array	NOT_USED

(6) MPH_NEIGHBOURCELL_REQ

multi_band	MULTI_BAND_0
arfcn	

CHLIST_1_14_25_124_512_580_637_885_FFFF

sync_only	NOT_USED

(7) MPHC_RXLEV_PERIODIC_REQ

chan_list	

CHLIST_23_1_14_25_124_512_580_637_885

num_of_chans	CHANNELS_9
ba_id	BA_ID_1
next_radio_freq_measured	CHAN_LIST_IDX_0

(8) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RES_SC_23_8
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(9) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_637
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_INVALID_TIMING_INFO

(10) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_25
fn_offset	NOT_USED

	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
(11) MPHC_NCELL_SYNC_REQ		
	radio_freq	ARFCN_14
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
(12) MPHC_NCELL_SYNC_REQ		
	radio_freq	ARFCN_512
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
(13) MPHC_NCELL_SYNC_REQ		
	radio_freq	ARFCN_580
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
(14) MPHC_NCELL_SYNC_REQ		
	radio_freq	ARFCN_885
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
(15) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RES_SC_23_8
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(16) MPH_MEASUREMENT_IND		
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_918
	ncells	NOT_USED
	gprs_sync	NOT_USED
(17) MPHC_NCELL_SYNC_IND		
	radio_freq	ARFCN_637
	sb_flag	SB_FOUND
	fn_offset	FN_OFFSET_14
	time_alignment	TIME_ALIGNMT_14
	bsic	BSIC_1
(18) MPHC_NCELL_BCCH_REQ		
	radio_freq	ARFCN_637
	fn_offset	FN_OFFSET_14
	time_alignment	TIME_ALIGNMT_14
	tsc	BSIC_1
	bcch_blocks_required	NCELL_BCCH_SI_3_4
	gprs_prio	NOT_USED

(19) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_25
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
bsic	BSIC_1

(20) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_25
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(21) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_14
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
bsic	BSIC_1

(22) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_14
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(23) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_512
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
bsic	BSIC_1

(24) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_512
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(25) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_580
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
bsic	BSIC_1

(26) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_580
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(27) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_885

sb_flag	SB_FOUND
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
bsic	BSIC_1

(28) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_885
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(29) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RES_SC_23_8
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(30) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_637
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_14

(31) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	ONE_ELEM
radio_freq_array	STOP_ARRAY_637

(32) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_25
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_14

(33) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	ONE_ELEM
radio_freq_array	STOP_ARRAY_25

(34) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_14
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_14

(35) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	ONE_ELEM
radio_freq_array	STOP_ARRAY_14

(36) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_512
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_14

(37) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	ONE_ELEM
radio_freq_array	STOP_ARRAY_512

(38) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_580
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_14

(39) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	ONE_ELEM
radio_freq_array	STOP_ARRAY_580

(40) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_885
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_14

(41) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	ONE_ELEM
radio_freq_array	STOP_ARRAY_885

(42) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RES_SC_23_8
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(43) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RES_SC_23_8
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(44) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_SC_900_8
gprs_sync	NOT_USED

(45) MPH_UNITDATA_IND

arfcn	ARFCN_14
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0

cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(46) MPH_UNITDATA_IND

arfcn	ARFCN_25
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(47) MPH_UNITDATA_IND

arfcn	ARFCN_512
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(48) MPH_UNITDATA_IND

arfcn	ARFCN_580
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(49) MPH_UNITDATA_IND

arfcn	ARFCN_637

fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(50) MPH_UNITDATA_IND

arfcn	ARFCN_885
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(51) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RES_SC_23_8
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(52) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RES_SC_23_8
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(53) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RES_SC_23_8
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(54) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306

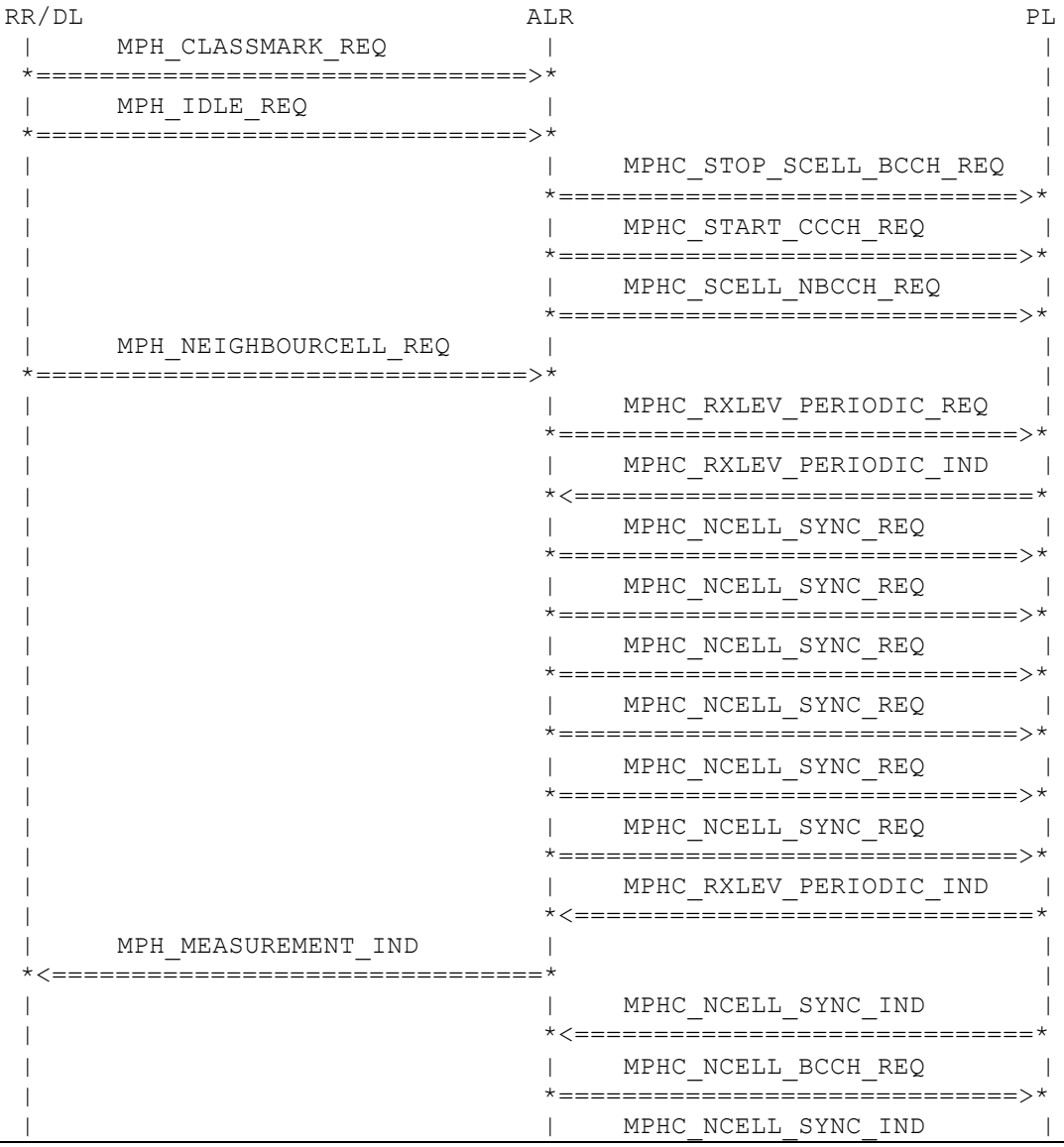
		ncells	NCELLS_SC_900_8
		gprs_sync	NOT_USED

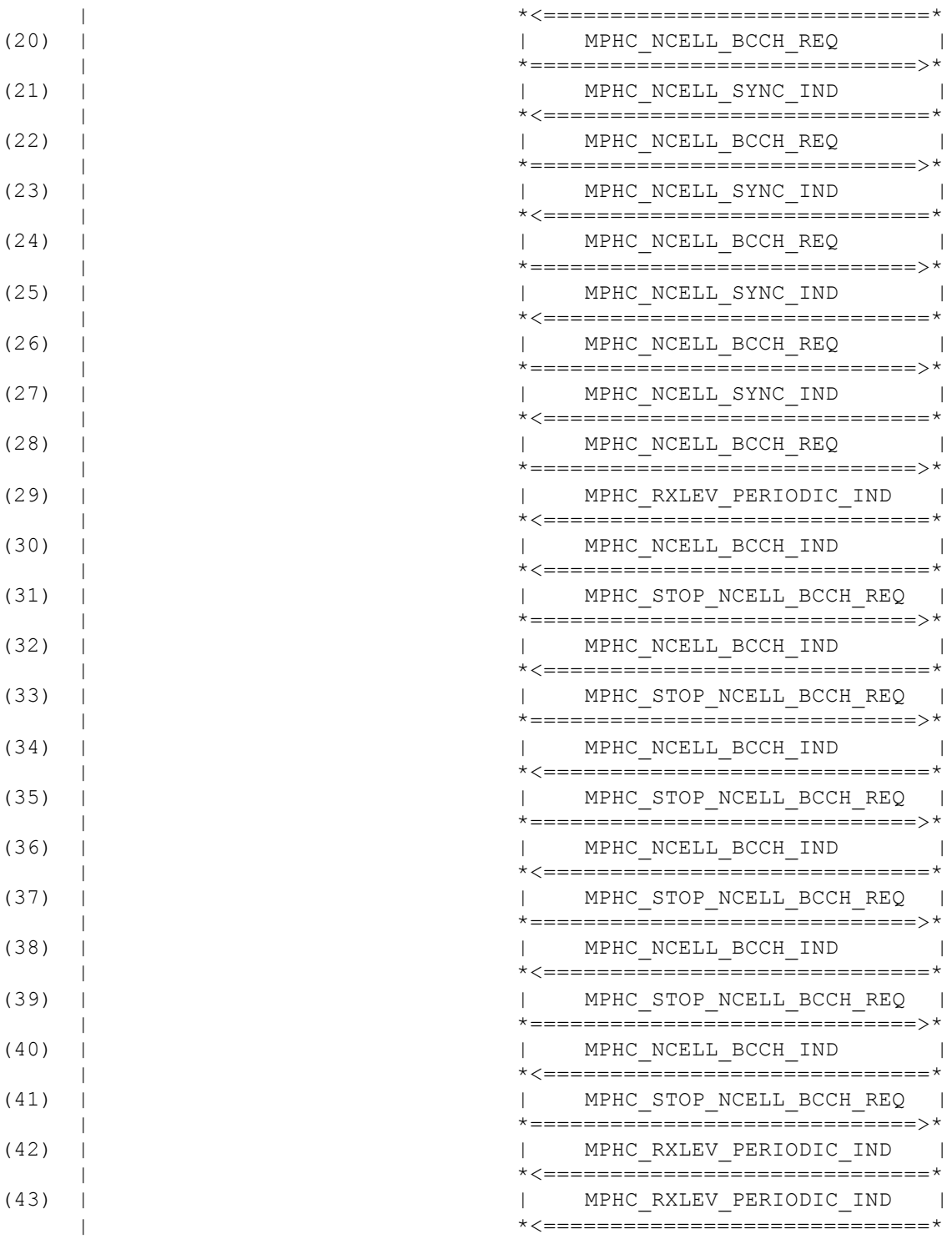
History:	22.01.00	MPA	Initial
	12.07.00	DG	MPH_CLASSMARK_REQ: class changed into classmark (Forum G23M / No 0057)
	20.06.01	MSB	fn_offset in (6) corrected
	20.07.01	MSB	channel list adapted
	07.02.02	LG	changed value of ba_id

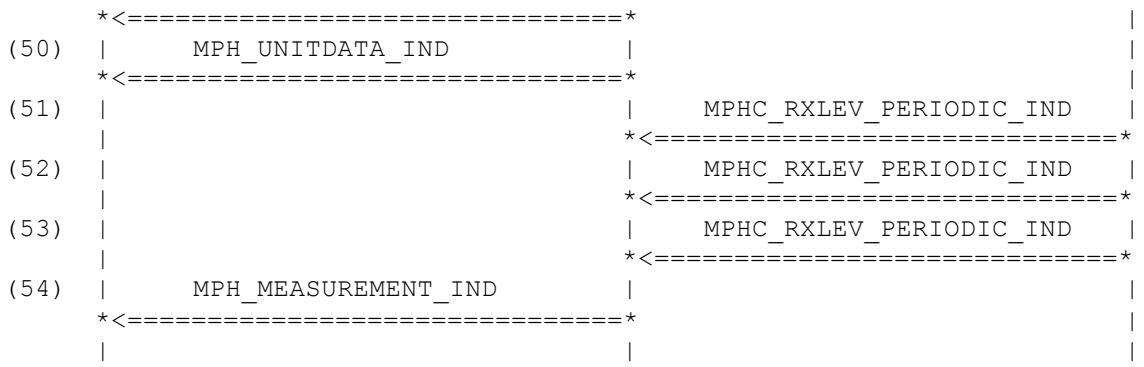
4.15.7 ALR651: Multiband = 0, Serving Cell is DCS 1800, 8 channels

Description: The multiband parameter is set to 0, that means the neighbourcells are ranked after the fieldstrength. The serving cell is 578 (that means in the DCS 1800 frequency band). The neighbourcell list contains eight channels : 1, 14, 25, 124, 512 580, 637 and 885. It is expected, that ALR starts synchronization to the six strongest cells 14, 25, 512, 580, 637, 885. This channels must be included in the measurement report to RR.

Preamble: ALR607




(20) MPHC_NCELL_BCCH_REQ
(21) MPHC_NCELL_SYNC_IND
(22) MPHC_NCELL_BCCH_REQ
(23) MPHC_NCELL_SYNC_IND
(24) MPHC_NCELL_BCCH_REQ
(25) MPHC_NCELL_SYNC_IND
(26) MPHC_NCELL_BCCH_REQ
(27) MPHC_NCELL_SYNC_IND
(28) MPHC_NCELL_BCCH_REQ
(29) MPHC_RXLEV_PERIODIC_IND
(30) MPHC_NCELL_BCCH_IND
(31) MPHC_STOP_NCELL_BCCH_REQ
(32) MPHC_NCELL_BCCH_IND
(33) MPHC_STOP_NCELL_BCCH_REQ
(34) MPHC_NCELL_BCCH_IND
(35) MPHC_STOP_NCELL_BCCH_REQ
(36) MPHC_NCELL_BCCH_IND
(37) MPHC_STOP_NCELL_BCCH_REQ
(38) MPHC_NCELL_BCCH_IND
(39) MPHC_STOP_NCELL_BCCH_REQ
(40) MPHC_NCELL_BCCH_IND
(41) MPHC_STOP_NCELL_BCCH_REQ
(42) MPHC_RXLEV_PERIODIC_IND
(43) MPHC_RXLEV_PERIODIC_IND
(44) MPH_MEASUREMENT_IND
(45) MPH_UNITDATA_IND
(46) MPH_UNITDATA_IND
(47) MPH_UNITDATA_IND
(48) MPH_UNITDATA_IND
(49) MPH_UNITDATA_IND



Parametrization

Primitive	Parameter	Value
(1) MPH_CLASSMARK_REQ		
	classmark	CLASS_DUAL
(2) MPH_IDLE_REQ		
	mod	NOT_USED
	arfcn	ARFCN_578
	ext_bcch	NOT_USED
	comb_ccch	COMB_CCCH_NOT_COMB
	tn	TN_0
	dlt	DLT_10
	pg	PG_20
	bs_ag_blocks_res	BS_AG_BLKS_RES_3
	bs_pa_mfrms	BS_PA_MFRMS_4
	power	POWER_12
	ncc_permitted	NOT_PRESENT_8BIT
	reorg_only	NOT_USED
(3) MPHC_STOP_SCELL_BCCH_REQ		
	param	NOT_USED
(4) MPHC_START_CCCH_REQ		
	bs_pa_mfrms	BS_PA_MFRMS_6
	bs_ag_blks_res	BS_AG_BLKS_RES_3
	bcch_combined	COMB_CCCH_NOT_COMB
	ccch_group	CCCH_GROUP_0
	page_group	PG_20
	page_block_index	PBI_2
	page_mode	PGM_REORG
(5) MPHC_SCELL_NBCCH_REQ		
	schedule_array_size	SCHED_SIZE_1
	schedule_array	NOT_USED
(6) MPH_NEIGHBOURCELL_REQ		
	multi_band	MULTI_BAND_0
	arfcn	CHLIST_1_14_25_124_512_580_637_885_FFFF
	sync_only	NOT_USED
(7) MPHC_RXLEV_PERIODIC_REQ		
	chan_list	CHLIST_578_1_14_25_124_512_580_637_885
	num_of_chans	CHANNELS_9

	ba_id	BA_ID_1
	next_radio_freq_measured	CHAN_LIST_IDX_0

(8) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RES_SC_578_8
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(9) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_637
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_INVALID_TIMING_INFO

(10) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_25
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_INVALID_TIMING_INFO

(11) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_14
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_INVALID_TIMING_INFO

(12) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_512
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_INVALID_TIMING_INFO

(13) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_580
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_INVALID_TIMING_INFO

(14) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_885
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_INVALID_TIMING_INFO

(15) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RES_SC_578_8
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(16) MPH_MEASUREMENT_IND

arfcn	ARFCN_578
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_918

	ncells	NCELLS_NO_CONTENT
	gprs_sync	NOT_USED
(17) MPHC_NCELL_SYNC_IND		
	radio_freq	ARFCN_637
	sb_flag	SB_FOUND
	fn_offset	FN_OFFSET_14
	time_alignment	TIME_ALIGNMT_14
	bsic	BSIC_1
(18) MPHC_NCELL_BCCH_REQ		
	radio_freq	ARFCN_637
	fn_offset	FN_OFFSET_14
	time_alignment	TIME_ALIGNMT_14
	tsc	BSIC_1
	bcch_blocks_required	NCELL_BCCH_SI_3_4
	gprs_prio	NOT_USED
(19) MPHC_NCELL_SYNC_IND		
	radio_freq	ARFCN_25
	sb_flag	SB_FOUND
	fn_offset	FN_OFFSET_14
	time_alignment	TIME_ALIGNMT_14
	bsic	BSIC_1
(20) MPHC_NCELL_BCCH_REQ		
	radio_freq	ARFCN_25
	fn_offset	FN_OFFSET_14
	time_alignment	TIME_ALIGNMT_14
	tsc	BSIC_1
	bcch_blocks_required	NCELL_BCCH_SI_3_4
	gprs_prio	NOT_USED
(21) MPHC_NCELL_SYNC_IND		
	radio_freq	ARFCN_14
	sb_flag	SB_FOUND
	fn_offset	FN_OFFSET_14
	time_alignment	TIME_ALIGNMT_14
	bsic	BSIC_1
(22) MPHC_NCELL_BCCH_REQ		
	radio_freq	ARFCN_14
	fn_offset	FN_OFFSET_14
	time_alignment	TIME_ALIGNMT_14
	tsc	BSIC_1
	bcch_blocks_required	NCELL_BCCH_SI_3_4
	gprs_prio	NOT_USED
(23) MPHC_NCELL_SYNC_IND		
	radio_freq	ARFCN_512
	sb_flag	SB_FOUND
	fn_offset	FN_OFFSET_14
	time_alignment	TIME_ALIGNMT_14
	bsic	BSIC_1
(24) MPHC_NCELL_BCCH_REQ		
	radio_freq	ARFCN_512
	fn_offset	FN_OFFSET_14
	time_alignment	TIME_ALIGNMT_14
	tsc	BSIC_1
	bcch_blocks_required	NCELL_BCCH_SI_3_4
	gprs_prio	NOT_USED

(25) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_580
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
bsic	BSIC_1

(26) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_580
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(27) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_885
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
bsic	BSIC_1

(28) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_885
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(29) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RES_SC_578_8
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(30) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_637
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_14

(31) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	ONE_ELEM
radio_freq_array	STOP_ARRAY_637

(32) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_25
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_14

(33) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	ONE_ELEM
radio_freq_array	STOP_ARRAY_25

(34) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_14

	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_3
	tc	TC_2
	fn	FN_OFFSET_14
(35) MPHC_STOP_NCELL_BCCH_REQ		
	radio_freq_array_size	ONE_ELEM
	radio_freq_array	STOP_ARRAY_14
(36) MPHC_NCELL_BCCH_IND		
	radio_freq	ARFCN_512
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_3
	tc	TC_2
	fn	FN_OFFSET_14
(37) MPHC_STOP_NCELL_BCCH_REQ		
	radio_freq_array_size	ONE_ELEM
	radio_freq_array	STOP_ARRAY_512
(38) MPHC_NCELL_BCCH_IND		
	radio_freq	ARFCN_580
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_3
	tc	TC_2
	fn	FN_OFFSET_14
(39) MPHC_STOP_NCELL_BCCH_REQ		
	radio_freq_array_size	ONE_ELEM
	radio_freq_array	STOP_ARRAY_580
(40) MPHC_NCELL_BCCH_IND		
	radio_freq	ARFCN_885
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_3
	tc	TC_2
	fn	FN_OFFSET_14
(41) MPHC_STOP_NCELL_BCCH_REQ		
	radio_freq_array_size	ONE_ELEM
	radio_freq_array	STOP_ARRAY_885
(42) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RES_SC_578_8
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(43) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RES_SC_578_8
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(44) MPH_MEASUREMENT_IND		
	arfcn	ARFCN_578
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED

rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_SC_900_8
gprs_sync	NOT_USED

(45) MPH_UNITDATA_IND

arfcn	ARFCN_14
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(46) MPH_UNITDATA_IND

arfcn	ARFCN_25
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(47) MPH_UNITDATA_IND

arfcn	ARFCN_512
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(48) MPH_UNITDATA_IND

arfcn	ARFCN_580
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(49) MPH_UNITDATA_IND

arfcn	ARFCN_637
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(50) MPH_UNITDATA_IND

arfcn	ARFCN_885
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(51) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RES_SC_578_8
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(52) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RES_SC_578_8
nbr_of_carriers	CHANNELS_8

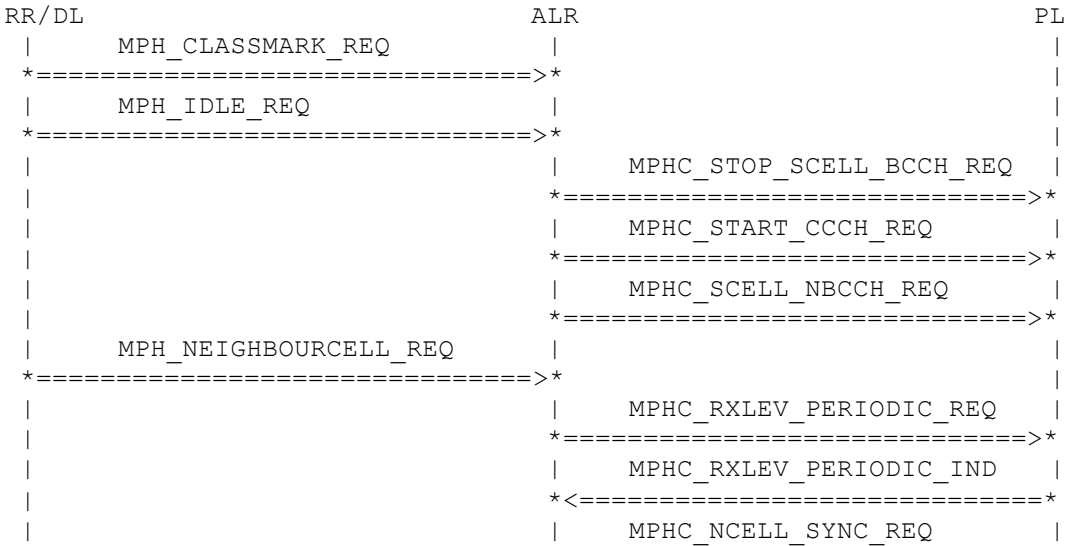
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(53) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RES_SC_578_8
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(54) MPH_MEASUREMENT_IND		
	arfcn	ARFCN_578
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NCELLS_SC_900_8
	gprs_sync	NOT_USED

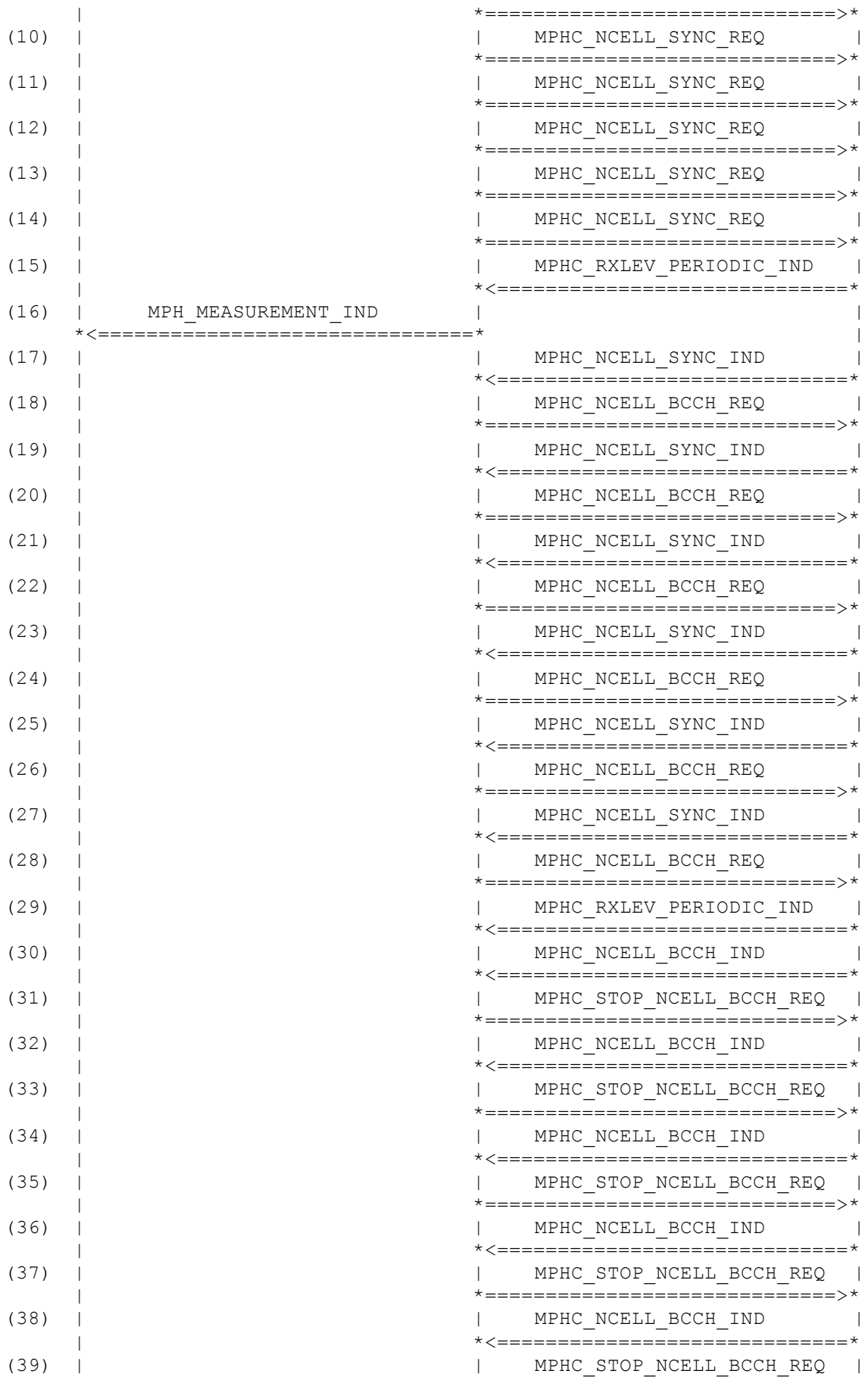
History:	24.01.00	MPA	Initial
	12.07.00	DG	MPH_CLASSMARK_REQ: class changed into classmark (Forum G23M / No 0057)
	20.06.01	MSB	fn_offset in (6) corrected
	07.02.02	LG	changed value of ba_id

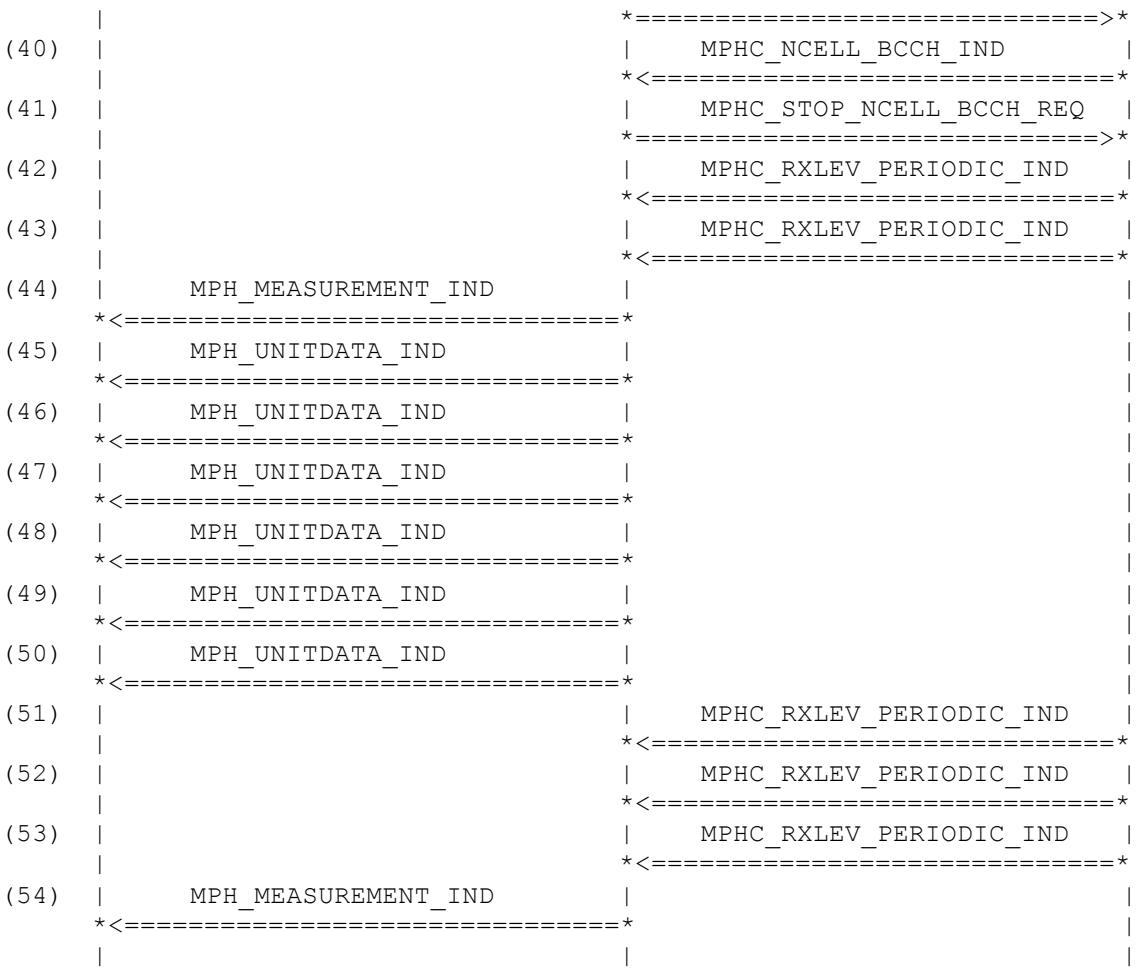
4.15.8 ALR652: Multiband = 1, Serving Cell is GSM 900, 8 channels

Description: The multiband parameter is set to 1, that means at least one of the neighbourcells is member of the non-serving cell band (that means in the DCS 1800 frequency band). The serving cell is 23 (that means in the GSM 900 frequency band). The neighbourcell list contains eight channels : 1, 11, 14, 25,87, 124, 512 and 885. It is expected, that ALR starts synchronization to the six cells 14, 87, 25, 11, 1 and 512. This channels must be included in the measurement report to RR. ALR shall not synchronize to 885, although the cell has a better fieldstrength than most channels of the GSM 900 frequency band.

Preamble: ALR607




(10) MPHC_NCELL_SYNC_REQ
(11) MPHC_NCELL_SYNC_REQ
(12) MPHC_NCELL_SYNC_REQ
(13) MPHC_NCELL_SYNC_REQ
(14) MPHC_NCELL_SYNC_REQ
(15) MPHC_RXLEV_PERIODIC_IND
(16) MPH_MEASUREMENT_IND
(17) MPHC_NCELL_SYNC_IND
(18) MPHC_NCELL_BCCH_REQ
(19) MPHC_NCELL_SYNC_IND
(20) MPHC_NCELL_BCCH_REQ
(21) MPHC_NCELL_SYNC_IND
(22) MPHC_NCELL_BCCH_REQ
(23) MPHC_NCELL_SYNC_IND
(24) MPHC_NCELL_BCCH_REQ
(25) MPHC_NCELL_SYNC_IND
(26) MPHC_NCELL_BCCH_REQ
(27) MPHC_NCELL_SYNC_IND
(28) MPHC_NCELL_BCCH_REQ
(29) MPHC_RXLEV_PERIODIC_IND
(30) MPHC_NCELL_BCCH_IND
(31) MPHC_STOP_NCELL_BCCH_REQ
(32) MPHC_NCELL_BCCH_IND
(33) MPHC_STOP_NCELL_BCCH_REQ
(34) MPHC_NCELL_BCCH_IND
(35) MPHC_STOP_NCELL_BCCH_REQ
(36) MPHC_NCELL_BCCH_IND
(37) MPHC_STOP_NCELL_BCCH_REQ
(38) MPHC_NCELL_BCCH_IND
(39) MPHC_STOP_NCELL_BCCH_REQ



Parametrization

Primitive	Parameter	Value
(1) MPH_CLASSMARK_REQ		
	classmark	CLASS_DUAL
(2) MPH_IDLE_REQ		
	mod	NOT_USED
	arfcn	ARFCN_23
	ext_bcch	NOT_USED
	comb_ccch	COMB_CCCH_NOT_COMB
	tn	TN_0
	dlt	DLT_10
	pg	PG_20
	bs_ag_blocks_res	BS_AG_BLKS_RES_3
	bs_pa_mfrms	BS_PA_MFRMS_4
	power	POWER_12
	ncc_permitted	NOT_PRESENT_8BIT
	reorg_only	NOT_USED
(3) MPHC_STOP_SCELL_BCCH_REQ		
	param	NOT_USED
(4) MPHC_START_CCCH_REQ		
	bs_pa_mfrms	BS_PA_MFRMS_6
	bs_ag_blks_res	BS_AG_BLKS_RES_3
	bcch_combined	COMB_CCCH_NOT_COMB

	ccch_group	CCCH_GROUP_0
	page_group	PG_20
	page_block_index	PBI_2
	page_mode	PGM_REORG
(5) MPHC_SCELL_NBCCH_REQ		
	schedule_array_size	SCHED_SIZE_1
	schedule_array	NOT_USED
(6) MPH_NEIGHBOURCELL_REQ		
	multi_band	MULTI_BAND_1
	arfcn	
CHLIST_1_11_14_25_87_124_512_885_FFFF		
	sync_only	NOT_USED
(7) MPHC_RXLEV_PERIODIC_REQ		
	chan_list	
CHLIST_23_1_11_14_25_87_124_512_885		
	num_of_chans	CHANNELS_9
	ba_id	BA_ID_1
	next_radio_freq_measured	CHAN_LIST_IDX_0
(8) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RES_SC_23_8_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(9) MPHC_NCELL_SYNC_REQ		
	radio_freq	ARFCN_14
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
(10) MPHC_NCELL_SYNC_REQ		
	radio_freq	ARFCN_512
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
(11) MPHC_NCELL_SYNC_REQ		
	radio_freq	ARFCN_11
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
(12) MPHC_NCELL_SYNC_REQ		
	radio_freq	ARFCN_87
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
(13) MPHC_NCELL_SYNC_REQ		
	radio_freq	ARFCN_25
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
(14) MPHC_NCELL_SYNC_REQ		
	radio_freq	ARFCN_1
	fn_offset	NOT_USED

	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
(15) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RES_SC_23_8_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(16) MPH_MEASUREMENT_IND		
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_918
	ncells	NCELLS_NO_CONTENT
	gprs_sync	NOT_USED
(17) MPHC_NCELL_SYNC_IND		
	radio_freq	ARFCN_14
	sb_flag	SB_FOUND
	fn_offset	FN_OFFSET_14
	time_alignment	TIME_ALIGNMT_14
	bsic	BSIC_1
(18) MPHC_NCELL_BCCH_REQ		
	radio_freq	ARFCN_14
	fn_offset	FN_OFFSET_14
	time_alignment	TIME_ALIGNMT_14
	tsc	BSIC_1
	bcch_blocks_required	NCELL_BCCH_SI_3_4
	gprs_prio	NOT_USED
(19) MPHC_NCELL_SYNC_IND		
	radio_freq	ARFCN_87
	sb_flag	SB_FOUND
	fn_offset	FN_OFFSET_14
	time_alignment	TIME_ALIGNMT_14
	bsic	BSIC_1
(20) MPHC_NCELL_BCCH_REQ		
	radio_freq	ARFCN_87
	fn_offset	FN_OFFSET_14
	time_alignment	TIME_ALIGNMT_14
	tsc	BSIC_1
	bcch_blocks_required	NCELL_BCCH_SI_3_4
	gprs_prio	NOT_USED
(21) MPHC_NCELL_SYNC_IND		
	radio_freq	ARFCN_25
	sb_flag	SB_FOUND
	fn_offset	FN_OFFSET_14
	time_alignment	TIME_ALIGNMT_14
	bsic	BSIC_1
(22) MPHC_NCELL_BCCH_REQ		
	radio_freq	ARFCN_25
	fn_offset	FN_OFFSET_14

time_alignment	TIME_ALIGNMT_14
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(23) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_11
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
bsic	BSIC_1

(24) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_11
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(25) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_1
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
bsic	BSIC_1

(26) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_1
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(27) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_512
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
bsic	BSIC_1

(28) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_512
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(29) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RES_SC_23_8_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(30) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_14
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3

	tc	TC_2
	fn	FN_OFFSET_14

(31) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	ONE_ELEM
radio_freq_array	STOP_ARRAY_14

(32) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_87
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_14

(33) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	ONE_ELEM
radio_freq_array	STOP_ARRAY_87

(34) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_25
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_14

(35) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	ONE_ELEM
radio_freq_array	STOP_ARRAY_25

(36) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_11
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_14

(37) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	ONE_ELEM
radio_freq_array	STOP_ARRAY_11

(38) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_1
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_14

(39) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	ONE_ELEM
radio_freq_array	STOP_ARRAY_1

(40) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_512
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_14

(41) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	ONE_ELEM
radio_freq_array	STOP_ARRAY_512

(42) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RES_SC_23_8_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(43) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RES_SC_23_8_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(44) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_SC_900_8_1
gprs_sync	NOT_USED

(45) MPH_UNITDATA_IND

arfcn	ARFCN_1
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(46) MPH_UNITDATA_IND

arfcn	ARFCN_11
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1

rach_ctrl	RACH_CTRL_1
}	

(47) MPH_UNITDATA_IND

arfcn	ARFCN_14
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(48) MPH_UNITDATA_IND

arfcn	ARFCN_25
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(49) MPH_UNITDATA_IND

arfcn	ARFCN_87
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(50) MPH_UNITDATA_IND

arfcn	ARFCN_512
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK

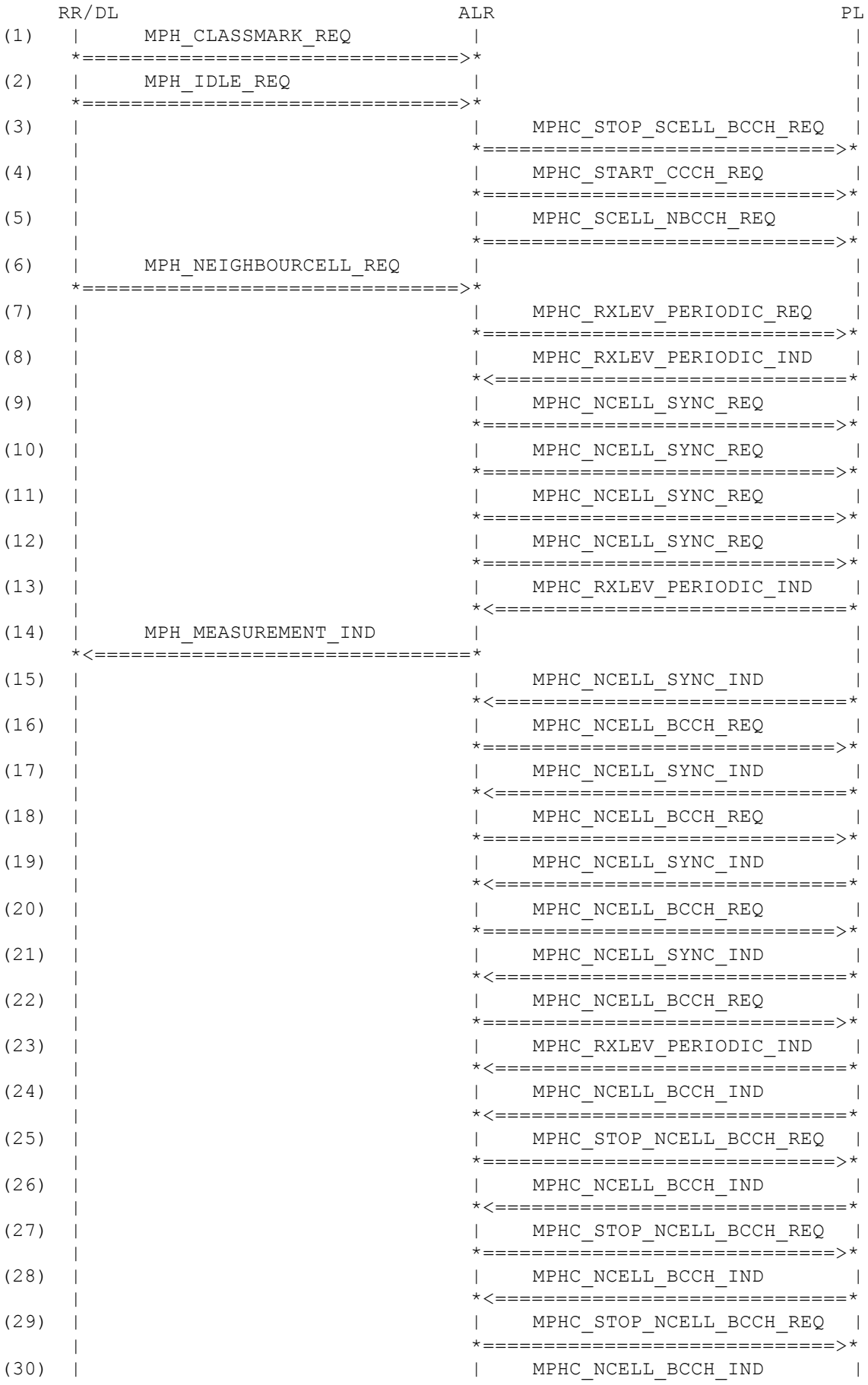
	pd	D_SYS_INFO_3
	ti	TI_0
	cell_ident	CELL_IDENT_1
	loc_area_ident	LOC_AREA_IDENT_1
	ctrl_chan_desc	CTRL_CHAN_DESC_1
	cell_opt_bcch	CELL_OPT_BCCH_1
	cell_select	CELL_SELECT_1
	rach_ctrl	RACH_CTRL_1
	}	
(51) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RES_SC_23_8_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(52) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RES_SC_23_8_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(53) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RES_SC_23_8_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(54) MPH_MEASUREMENT_IND		
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NCELLS_SC_900_8_1
	gprs_sync	NOT_USED

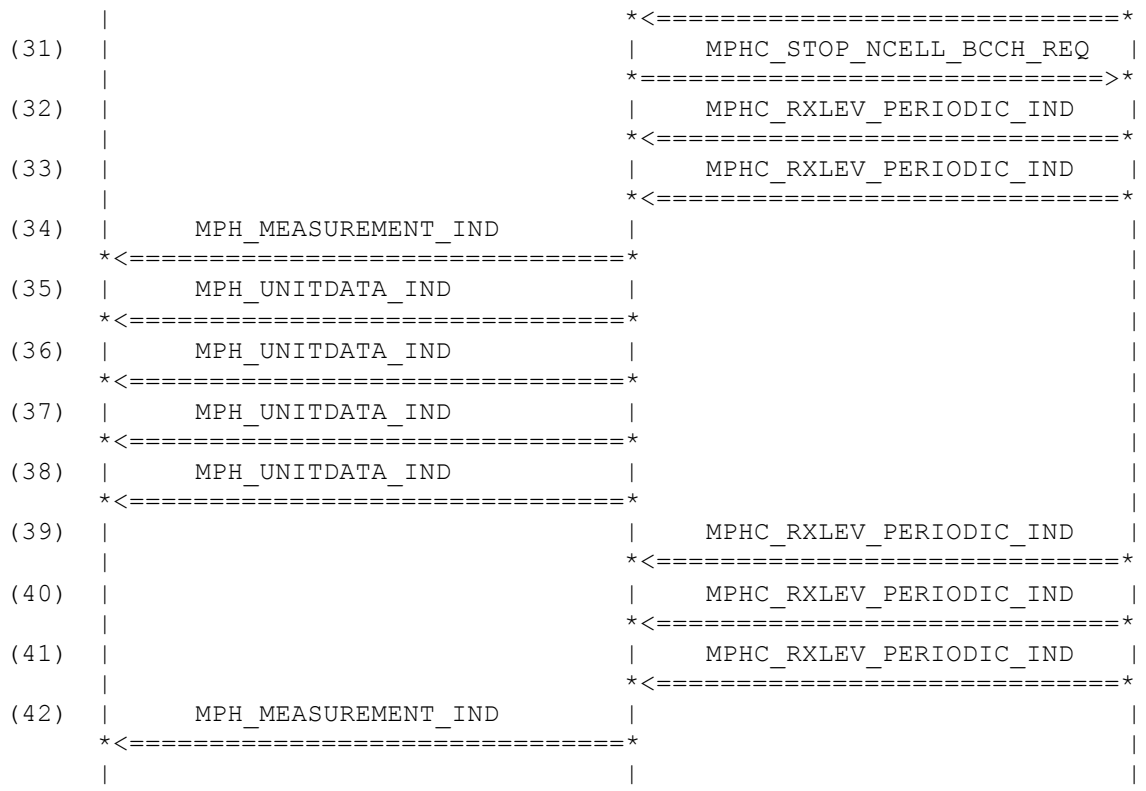
History:	24.01.00	MPA	Initial
	12.07.00	DG	MPH_CLASSMARK_REQ: class changed into classmark (Forum G23M / No 0057)
	20.06.01	MSB	fn_offset in (6) corrected
	07.02.02	LG	changed value of ba_id

4.15.9 ALR653: Multiband = 1, Serving Cell is GSM 900, 4 channels

Description: The multiband parameter is set to 1, that at least one of the neighbourcells is member of the non-serving cell band (that means in the DCS 1800 frequency band). The serving cell is 23 (that means in the GSM 900 frequency band). The neighbourcell list contains four channels : 1, 14, 512 and 885. It is expected, that ALR starts synchronization to the six cells 1, 14, 512 and 885. This channels must be included in the measurement report to RR.

Preamble: ALR607


RR/DL
ALR
PL
(1) MPH_CLASSMARK_REQ
(2) MPH_IDLE_REQ
(3) MPHC_STOP_SCELL_BCCH_REQ
(4) MPHC_START_CCCH_REQ
(5) MPHC_SCELL_NBCCH_REQ
(6) MPH_NEIGHBOURCELL_REQ
(7) MPHC_RXLEV_PERIODIC_REQ
(8) MPHC_RXLEV_PERIODIC_IND
(9) MPHC_NCELL_SYNC_REQ
(10) MPHC_NCELL_SYNC_REQ
(11) MPHC_NCELL_SYNC_REQ
(12) MPHC_NCELL_SYNC_REQ
(13) MPHC_RXLEV_PERIODIC_IND
(14) MPH_MEASUREMENT_IND
(15) MPHC_NCELL_SYNC_IND
(16) MPHC_NCELL_BCCH_REQ
(17) MPHC_NCELL_SYNC_IND
(18) MPHC_NCELL_BCCH_REQ
(19) MPHC_NCELL_SYNC_IND
(20) MPHC_NCELL_BCCH_REQ
(21) MPHC_NCELL_SYNC_IND
(22) MPHC_NCELL_BCCH_REQ
(23) MPHC_RXLEV_PERIODIC_IND
(24) MPHC_NCELL_BCCH_IND
(25) MPHC_STOP_NCELL_BCCH_REQ
(26) MPHC_NCELL_BCCH_IND
(27) MPHC_STOP_NCELL_BCCH_REQ
(28) MPHC_NCELL_BCCH_IND
(29) MPHC_STOP_NCELL_BCCH_REQ
(30) MPHC_NCELL_BCCH_IND



Parametrization

Primitive	Parameter	Value
(1) MPH_CLASSMARK_REQ		
	classmark	CLASS_DUAL
(2) MPH_IDLE_REQ		
	mod	NOT_USED
	arfcn	ARFCN_23
	ext_bcch	NOT_USED
	comb_ccch	COMB_CCCH_NOT_COMB
	tn	TN_0
	dlt	DLT_10
	pg	PG_20
	bs_ag_blocks_res	BS_AG_BLKS_RES_3
	bs_pa_mfrms	BS_PA_MFRMS_4
	power	POWER_12
	ncc_permitted	NOT_PRESENT_8BIT
	reorg_only	NOT_USED
(3) MPHC_STOP_SCELL_BCCH_REQ		
	param	NOT_USED
(4) MPHC_START_CCCH_REQ		
	bs_pa_mfrms	BS_PA_MFRMS_6
	bs_ag_blks_res	BS_AG_BLKS_RES_3
	bcch_combined	COMB_CCCH_NOT_COMB
	ccch_group	CCCH_GROUP_0
	page_group	PG_20
	page_block_index	PBI_2
	page_mode	PGM_REORG

(5) MPHC_SCELL_NBCCH_REQ

schedule_array_size	SCHED_SIZE_1
schedule_array	NOT_USED

(6) MPH_NEIGHBOURCELL_REQ

multi_band	MULTI_BAND_1
arfcn	CHLIST_1_14_512_885_FFFF
sync_only	NOT_USED

(7) MPHC_RXLEV_PERIODIC_REQ

chan_list	CHLIST_23_1_14_512_885
num_of_chans	CHANNELS_5
ba_id	BA_ID_1
next_radio_freq_measured	CHAN_LIST_IDX_0

(8) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RES_SC_23_4_1
nbr_of_carriers	CHANNELS_4
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(9) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_14
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_INVALID_TIMING_INFO

(10) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_512
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_INVALID_TIMING_INFO

(11) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_885
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_INVALID_TIMING_INFO

(12) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_1
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_INVALID_TIMING_INFO

(13) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RES_SC_23_4_1
nbr_of_carriers	CHANNELS_4
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(14) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_918

	ncells	NCELLS_NO_CONTENT
	gprs_sync	NOT_USED

(15) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_14
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
bsic	BSIC_1

(16) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_14
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(17) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_512
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
bsic	BSIC_1

(18) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_512
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(19) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_885
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
bsic	BSIC_1

(20) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_885
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(21) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_1
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
bsic	BSIC_1

(22) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_1
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(23) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RES_SC_23_4_1
nbr_of_carriers	CHANNELS_4
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(24) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_14
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_14

(25) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	ONE_ELEM
radio_freq_array	STOP_ARRAY_14

(26) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_512
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_14

(27) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	ONE_ELEM
radio_freq_array	STOP_ARRAY_512

(28) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_885
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_14

(29) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	ONE_ELEM
radio_freq_array	STOP_ARRAY_885

(30) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_1
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_14

(31) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	ONE_ELEM
radio_freq_array	STOP_ARRAY_1

(32) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RES_SC_23_4_1
nbr_of_carriers	CHANNELS_4
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(33) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RES_SC_23_4_1

nbr_of_carriers	CHANNELS_4
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(34) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_SC_900_4_1
gprs_sync	NOT_USED

(35) MPH_UNITDATA_IND

arfcn	ARFCN_1
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(36) MPH_UNITDATA_IND

arfcn	ARFCN_14
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(37) MPH_UNITDATA_IND

arfcn	ARFCN_512
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1

loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(38) MPH_UNITDATA_IND

arfcn	ARFCN_885
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(39) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RES_SC_23_4_1
nbr_of_carriers	CHANNELS_4
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(40) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RES_SC_23_4_1
nbr_of_carriers	CHANNELS_4
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(41) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RES_SC_23_4_1
nbr_of_carriers	CHANNELS_4
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(42) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_SC_900_4_1
gprs_sync	NOT_USED

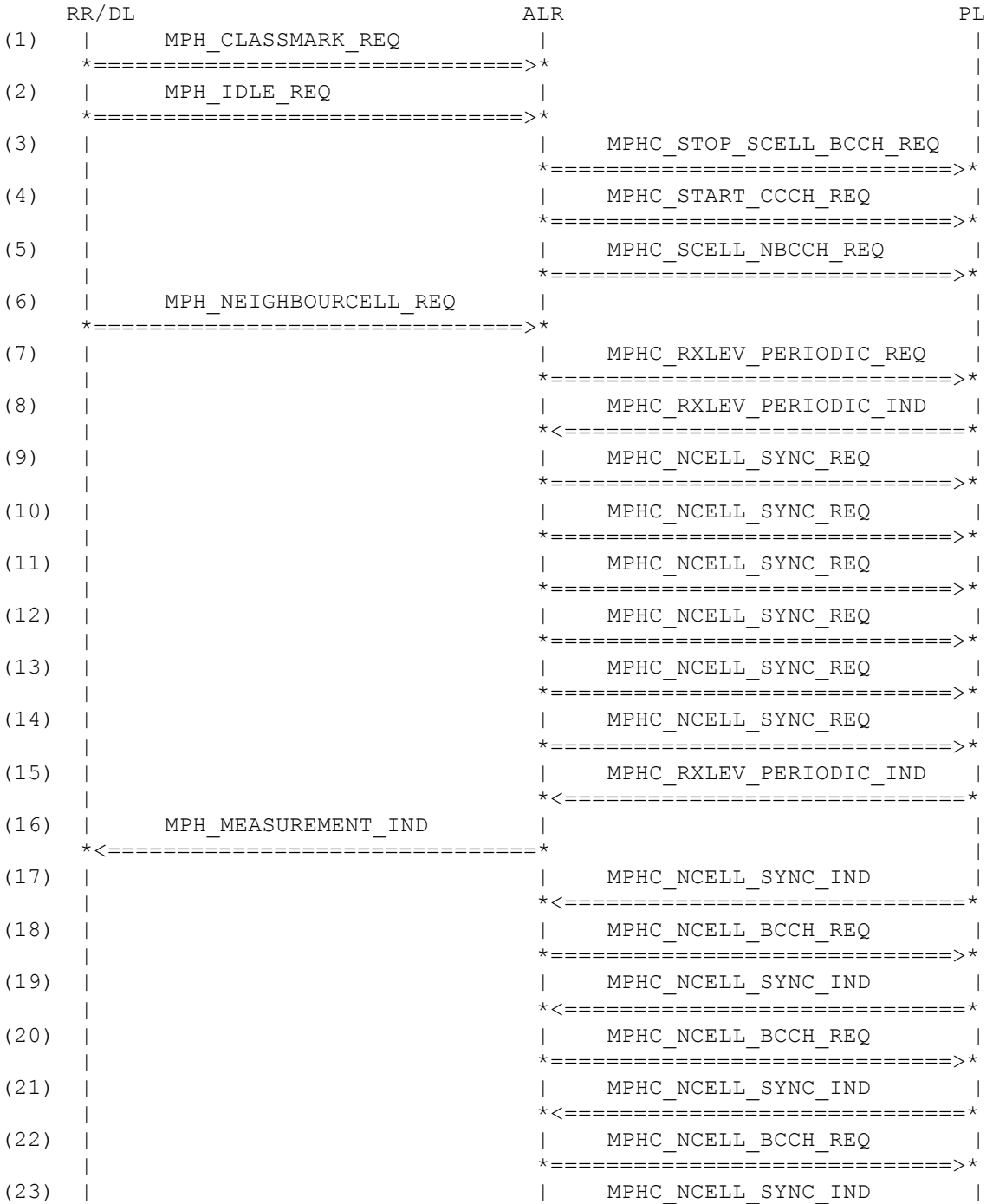
History:			
	24.01.00	MPA	Initial
	12.07.00	DG	MPH_CLASSMARK_REQ: class changed into classmark (Forum G23M / No 0057)
	20.06.01	MSB	fn_offset in (6) corrected

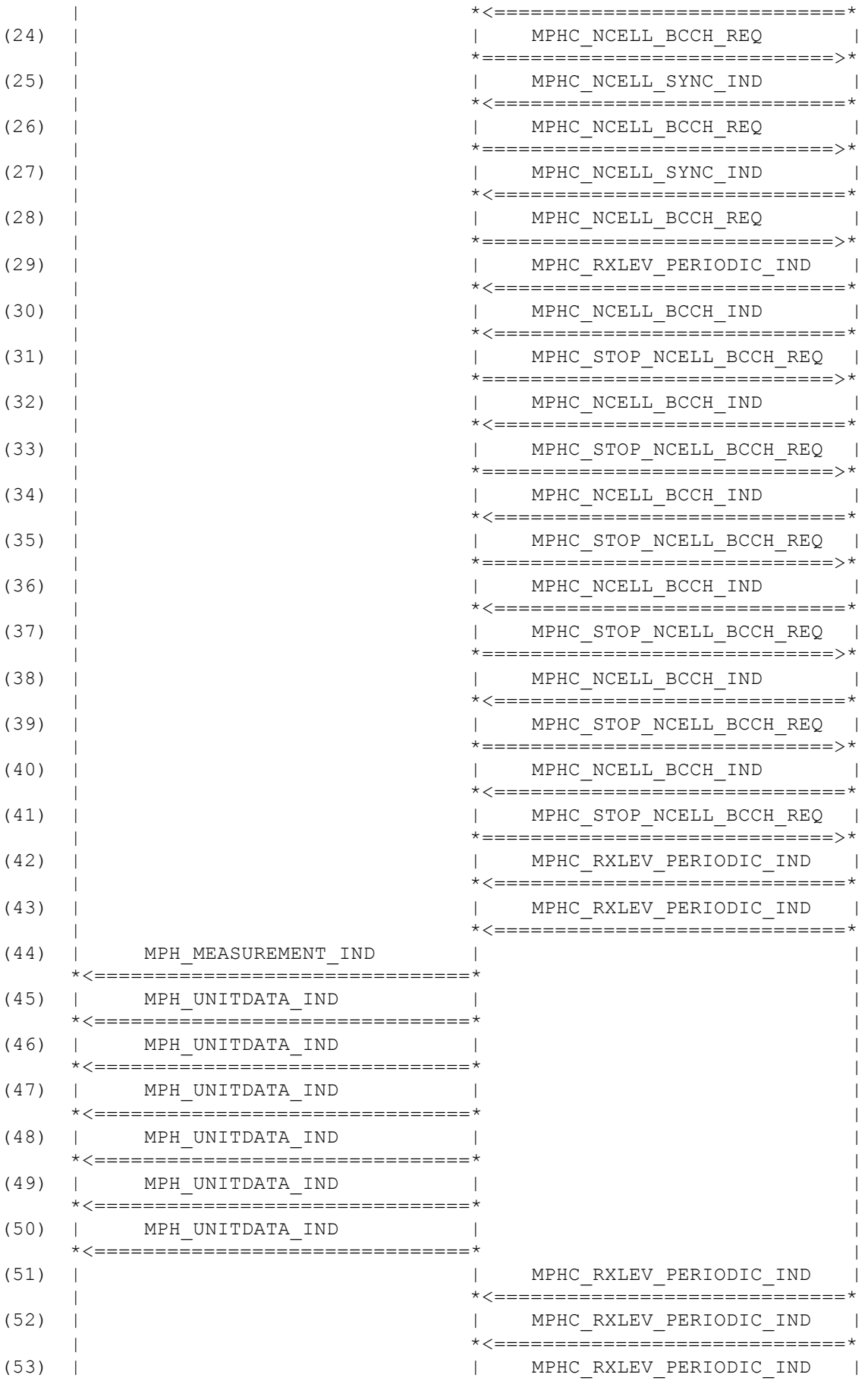
07.02.02	LG	changed value of ba_id

4.15.10 ALR654: Multiband = 1, Serving Cell is DCS 1800, 8 channels

Description: The multiband parameter is set to 1, that at least one of the neighbourcells is member of the non-serving cell band (that means in the GSM 900 frequency band). The serving cell is 637 (that means in the DCS 1800 frequency band). The neighbourcell list contains eight channels : 1, 14, 512, 513, 600, 700, 810 and 885. It is expected, that ALR starts synchronization to the six cells 14, 513, 600, 700, 810 and 885. This channels must be included in the measurement report to RR. ALR shall not synchronize to 1, although the cell has a better fieldstrength than the most channels of the DCS 1800 frequency band.

Preamble: ALR607




MPHC_NCELL_BCCH_REQ
MPHC_NCELL_SYNC_IND
MPHC_NCELL_BCCH_REQ
MPHC_NCELL_SYNC_IND
MPHC_NCELL_BCCH_REQ
MPHC_RXLEV_PERIODIC_IND
MPHC_NCELL_BCCH_IND
MPHC_STOP_NCELL_BCCH_REQ
MPHC_NCELL_BCCH_IND
MPHC_STOP_NCELL_BCCH_REQ
MPHC_NCELL_BCCH_IND
MPHC_STOP_NCELL_BCCH_REQ
MPHC_NCELL_BCCH_IND
MPHC_STOP_NCELL_BCCH_REQ
MPHC_RXLEV_PERIODIC_IND
MPHC_RXLEV_PERIODIC_IND
MPH_MEASUREMENT_IND
MPH_UNITDATA_IND
MPH_UNITDATA_IND
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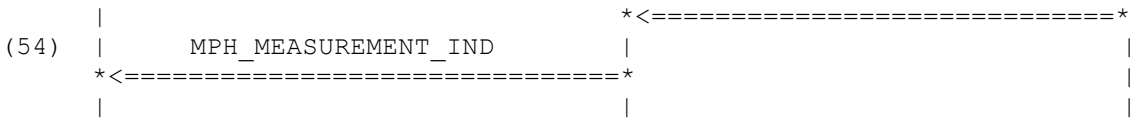
MPHC_RXLEV_PERIODIC_IND



Parametrization

Primitive	Parameter	Value
(1) MPH_CLASSMARK_REQ		
	classmark	CLASS_DUAL
(2) MPH_IDLE_REQ		
	mod	NOT_USED
	arfcn	ARFCN_637
	ext_bcch	NOT_USED
	comb_ccch	COMB_CCCH_NOT_COMB
	tn	TN_0
	dlt	DLT_10
	pg	PG_20
	bs_ag_blocks_res	BS_AG_BLKS_RES_3
	bs_pa_mfrms	BS_PA_MFRMS_4
	power	POWER_12
	ncc_permitted	NOT_PRESENT_8BIT
	reorg_only	NOT_USED
(3) MPHC_STOP_SCELL_BCCH_REQ		
	param	NOT_USED
(4) MPHC_START_CCCH_REQ		
	bs_pa_mfrms	BS_PA_MFRMS_6
	bs_ag_blks_res	BS_AG_BLKS_RES_3
	bcch_combined	COMB_CCCH_NOT_COMB
	ccch_group	CCCH_GROUP_0
	page_group	PG_20
	page_block_index	PBI_2
	page_mode	PGM_REORG
(5) MPHC_SCELL_NBCCH_REQ		
	schedule_array_size	SCHED_SIZE_1
	schedule_array	NOT_USED
(6) MPH_NEIGHBOURCELL_REQ		
	multi_band	MULTI_BAND_1
	arfcn	CHLIST_1_14_512_513_600_700_810_885_FFFF
	sync_only	NOT_USED
(7) MPHC_RXLEV_PERIODIC_REQ		
	chan_list	CHLIST_637_1_14_512_513_600_700_810_885
	num_of_chans	CHANNELS_9
	ba_id	BA_ID_1
	next_radio_freq_measured	CHAN_LIST_IDX_0
(8) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RES_SC_637_8_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1

(9) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_14
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_INVALID_TIMING_INFO

(10) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_700
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_INVALID_TIMING_INFO

(11) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_600
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_INVALID_TIMING_INFO

(12) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_513
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_INVALID_TIMING_INFO

(13) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_810
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_INVALID_TIMING_INFO

(14) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_885
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_INVALID_TIMING_INFO

(15) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RES_SC_637_8_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(16) MPH_MEASUREMENT_IND

arfcn	ARFCN_637
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_918
ncells	NCELLS_NO_CONTENT
gprs_sync	NOT_USED

(17) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_700
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
bsic	BSIC_1

(18) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_700
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(19) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_600
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
bsic	BSIC_1

(20) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_600
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(21) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_513
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
bsic	BSIC_1

(22) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_513
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(23) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_810
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
bsic	BSIC_1

(24) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_810
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(25) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_885
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
bsic	BSIC_1

(26) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_885

fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(27) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_14
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
bsic	BSIC_1

(28) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_14
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(29) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RES_SC_637_8_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(30) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_700
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_14

(31) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	ONE_ELEM
radio_freq_array	STOP_ARRAY_700

(32) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_600
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_14

(33) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	ONE_ELEM
radio_freq_array	STOP_ARRAY_600

(34) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_513
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_14

(35) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	ONE_ELEM
radio_freq_array	STOP_ARRAY_513

(36) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_810
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_14

(37) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	ONE_ELEM
radio_freq_array	STOP_ARRAY_810

(38) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_885
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_14

(39) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	ONE_ELEM
radio_freq_array	STOP_ARRAY_885

(40) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_14
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_14

(41) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	ONE_ELEM
radio_freq_array	STOP_ARRAY_14

(42) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RES_SC_637_8_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(43) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RES_SC_637_8_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(44) MPH_MEASUREMENT_IND

arfcn	ARFCN_637
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_SC_1800_8_1
gprs_sync	NOT_USED

(45) MPH_UNITDATA_IND

arfcn	ARFCN_14
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(46) MPH_UNITDATA_IND

arfcn	ARFCN_513
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(47) MPH_UNITDATA_IND

arfcn	ARFCN_600
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(48) MPH_UNITDATA_IND

arfcn	ARFCN_700
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0

cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(49) MPH_UNITDATA_IND

arfcn	ARFCN_810
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(50) MPH_UNITDATA_IND

arfcn	ARFCN_885
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(51) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RES_SC_637_8_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(52) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RES_SC_637_8_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(53) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RES_SC_637_8_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(54) MPH_MEASUREMENT_IND

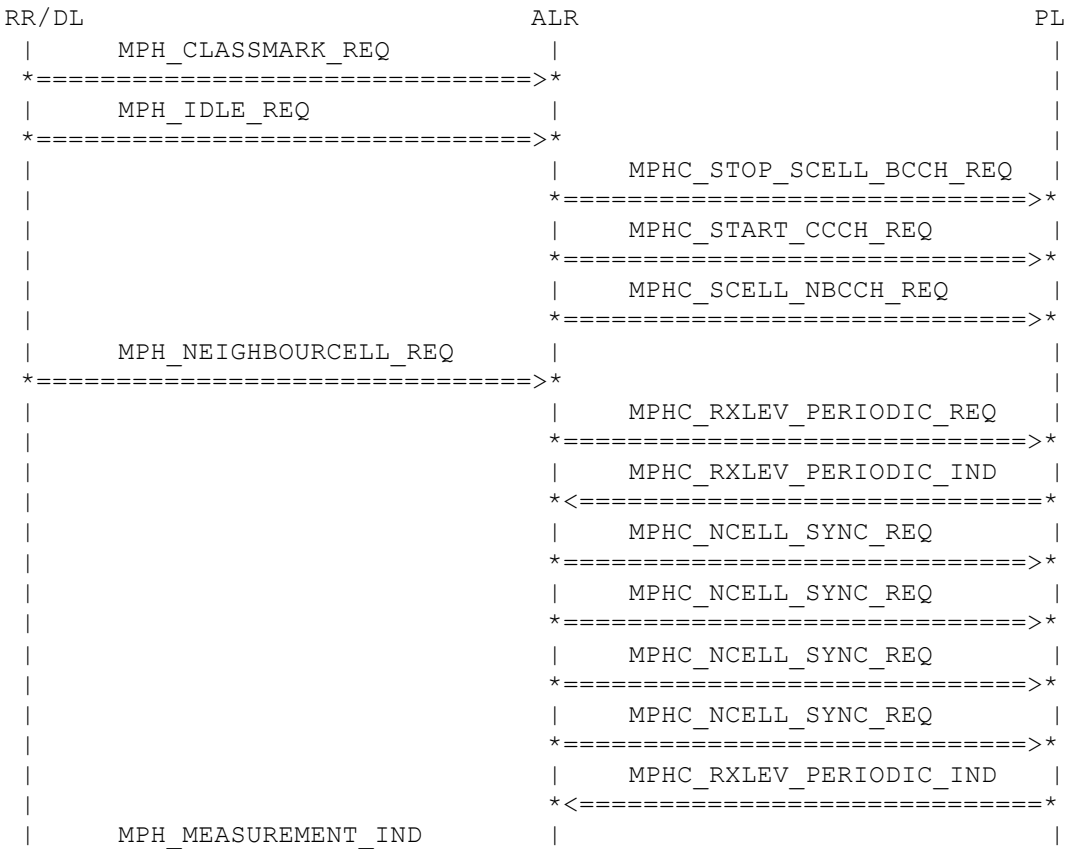
arfcn	ARFCN_637
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_SC_1800_8_1
gprs_sync	NOT_USED

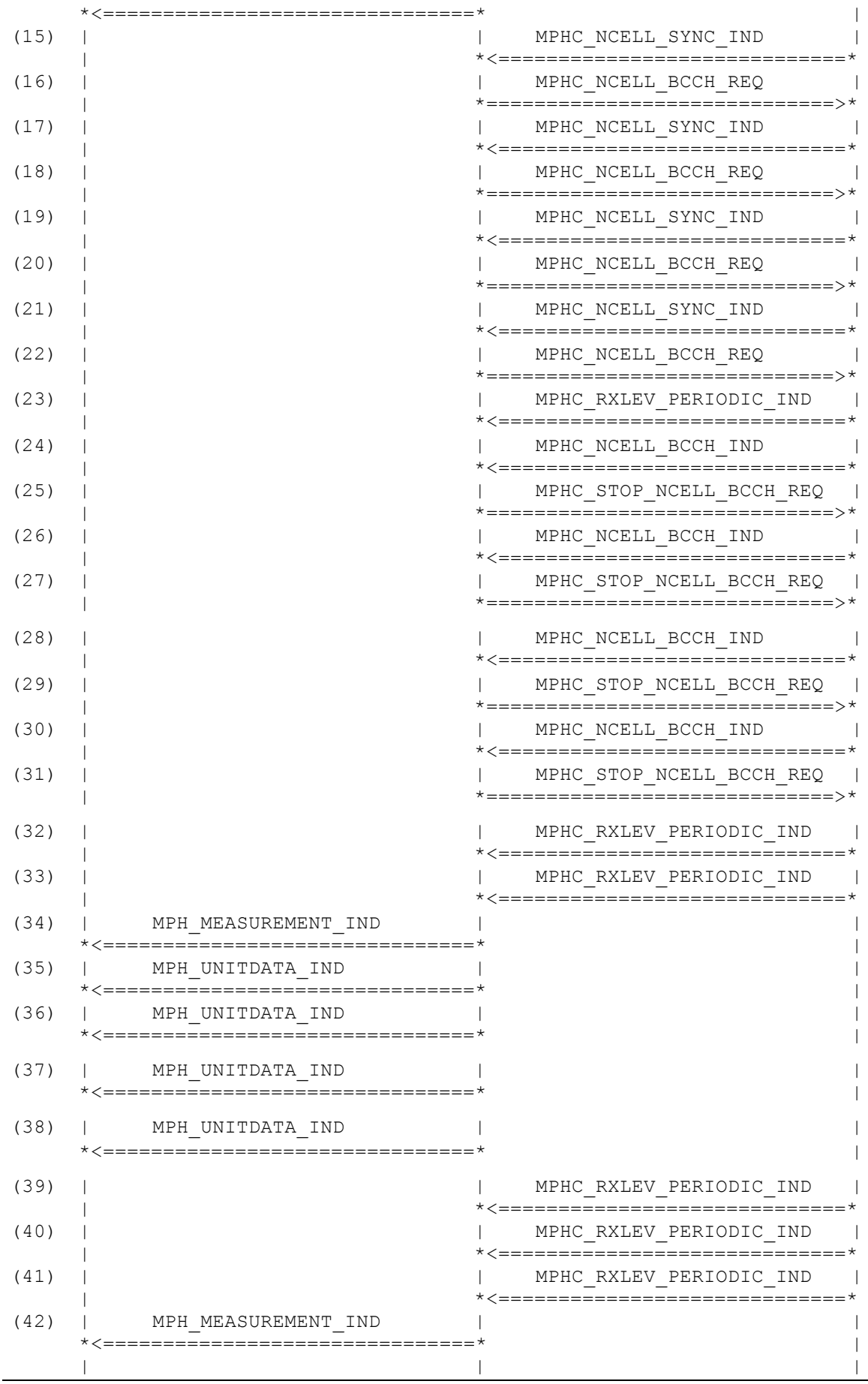
History:	24.01.00	MPA	Initial
	12.07.00	DG	MPH_CLASSMARK_REQ: class changed into classmark (Forum G23M / No 0057)
	20.06.01	MSB	fn_offset corrected in (16)
	07.02.02	LG	changed value of ba_id

4.15.11 ALR655: Multiband = 1, Serving Cell is DCS 1800, 4 channels

Description: The multiband parameter is set to 1, that at least one of the neighbourcells is member of the non-serving cell band (that means in the GSM 900 frequency band). The serving cell is 637 (that means in the DCS 1800 frequency band). The neighbourcell list contains four channels : 1, 14, 512 and 885. It is expected, that ALR starts synchronization to the six cells 1, 14, 512 and 885. This channels must be included in the measurement report to RR.

Preamble: ALR607




(15) MPHC_NCELL_SYNC_IND
(16) MPHC_NCELL_BCCH_REQ
(17) MPHC_NCELL_SYNC_IND
(18) MPHC_NCELL_BCCH_REQ
(19) MPHC_NCELL_SYNC_IND
(20) MPHC_NCELL_BCCH_REQ
(21) MPHC_NCELL_SYNC_IND
(22) MPHC_NCELL_BCCH_REQ
(23) MPHC_RXLEV_PERIODIC_IND
(24) MPHC_NCELL_BCCH_IND
(25) MPHC_STOP_NCELL_BCCH_REQ
(26) MPHC_NCELL_BCCH_IND
(27) MPHC_STOP_NCELL_BCCH_REQ
(28) MPHC_NCELL_BCCH_IND
(29) MPHC_STOP_NCELL_BCCH_REQ
(30) MPHC_NCELL_BCCH_IND
(31) MPHC_STOP_NCELL_BCCH_REQ
(32) MPHC_RXLEV_PERIODIC_IND
(33) MPHC_RXLEV_PERIODIC_IND
(34) MPH_MEASUREMENT_IND
(35) MPH_UNITDATA_IND
(36) MPH_UNITDATA_IND
(37) MPH_UNITDATA_IND
(38) MPH_UNITDATA_IND
(39) MPHC_RXLEV_PERIODIC_IND
(40) MPHC_RXLEV_PERIODIC_IND
(41) MPHC_RXLEV_PERIODIC_IND
(42) MPH_MEASUREMENT_IND

Parametrization

Primitive	Parameter	Value
(1) MPH_CLASSMARK_REQ		
	classmark	CLASS_DUAL
(2) MPH_IDLE_REQ		
	mod	NOT_USED
	arfcn	ARFCN_637
	ext_bcch	NOT_USED
	comb_ccch	COMB_CCCH_NOT_COMB
	tn	TN_0
	dlt	DLT_10
	pg	PG_20
	bs_ag_blocks_res	BS_AG_BLKS_RES_3
	bs_pa_mfrms	BS_PA_MFRMS_4
	power	POWER_12
	ncc_permitted	NOT_PRESENT_8BIT
	reorg_only	NOT_USED
(3) MPHC_STOP_SCELL_BCCH_REQ		
	param	NOT_USED
(4) MPHC_START_CCCH_REQ		
	bs_pa_mfrms	BS_PA_MFRMS_6
	bs_ag_blks_res	BS_AG_BLKS_RES_3
	bcch_combined	COMB_CCCH_NOT_COMB
	ccch_group	CCCH_GROUP_0
	page_group	PG_20
	page_block_index	PBI_2
	page_mode	PGM_REORG
(5) MPHC_SCELL_NBCCH_REQ		
	schedule_array_size	SCHED_SIZE_1
	schedule_array	NOT_USED
(6) MPH_NEIGHBOURCELL_REQ		
	multi_band	MULTI_BAND_1
	arfcn	CHLIST_1_14_512_885_FFFF
	sync_only	NOT_USED
(7) MPHC_RXLEV_PERIODIC_REQ		
	chan_list	CHLIST_637_1_14_512_885
	num_of_chans	CHANNELS_5
	ba_id	BA_ID_1
	next_radio_freq_measured	CHAN_LIST_IDX_0
(8) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RES_SC_637_4_1
	nbr_of_carriers	CHANNELS_4
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(9) MPHC_NCELL_SYNC_REQ		
	radio_freq	ARFCN_14
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO

(10) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_512
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_INVALID_TIMING_INFO

(11) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_885
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_INVALID_TIMING_INFO

(12) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_1
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_INVALID_TIMING_INFO

(13) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RES_SC_637_4_1
nbr_of_carriers	CHANNELS_4
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(14) MPH_MEASUREMENT_IND

arfcn	ARFCN_637
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_918
ncells	NCELLS_NO_CONTENT
gprs_sync	NOT_USED

(15) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_14
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
bsic	BSIC_1

(16) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_14
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(17) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_512
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
bsic	BSIC_1

(18) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_512
fn_offset	FN_OFFSET_14

time_alignment	TIME_ALIGNMT_14
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(19) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_885
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
bsic	BSIC_1

(20) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_885
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(21) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_1
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
bsic	BSIC_1

(22) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_1
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(23) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RES_SC_637_4_1
nbr_of_carriers	CHANNELS_4
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(24) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_14
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_14

(25) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	ONE_ELEM
radio_freq_array	STOP_ARRAY_14

(26) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_512
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_14

(27) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	ONE_ELEM
radio_freq_array	STOP_ARRAY_512

(28) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_885
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_14

(29) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	ONE_ELEM
radio_freq_array	STOP_ARRAY_885

(30) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_1
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_14

(31) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	ONE_ELEM
radio_freq_array	STOP_ARRAY_1

(32) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RES_SC_637_4_1
nbr_of_carriers	CHANNELS_4
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(33) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RES_SC_637_4_1
nbr_of_carriers	CHANNELS_4
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(34) MPH_MEASUREMENT_IND

arfcn	ARFCN_637
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_SC_1800_4_1
gprs_sync	NOT_USED

(35) MPH_UNITDATA_IND

arfcn	ARFCN_1
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0

cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(36) MPH_UNITDATA_IND

arfcn	ARFCN_14
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(37) MPH_UNITDATA_IND

arfcn	ARFCN_512
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(38) MPH_UNITDATA_IND

arfcn	ARFCN_885
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(39) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RES_SC_637_4_1

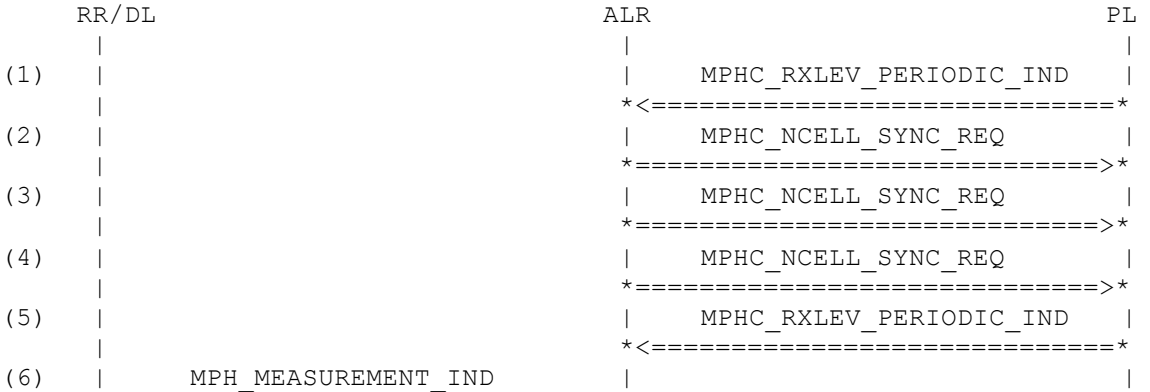
	nbr_of_carriers	CHANNELS_4
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(40) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RES_SC_637_4_1
	nbr_of_carriers	CHANNELS_4
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(41) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RES_SC_637_4_1
	nbr_of_carriers	CHANNELS_4
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(42) MPH_MEASUREMENT_IND		
	arfcn	ARFCN_637
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NCELLS_SC_1800_4_1
	gprs_sync	NOT_USED

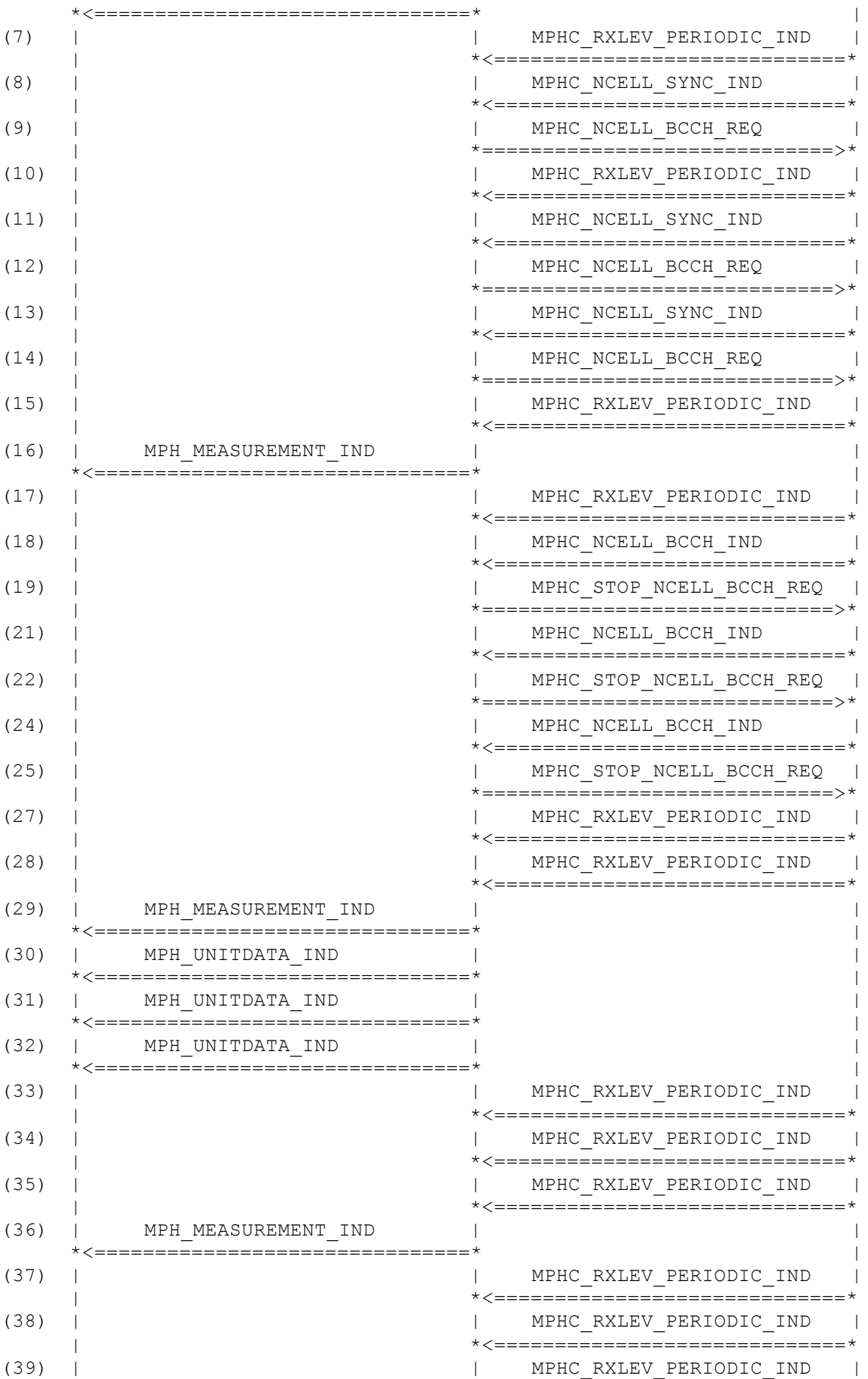
History:	24.01.00	MPA	Initial
	12.07.00	DG	MPH_CLASSMARK_REQ: class changed into classmark (Forum G23M / No 0057)
	20.06.01	MSB	fn_offset corrected in (14)
	07.02.02	LG	changed value of ba_id

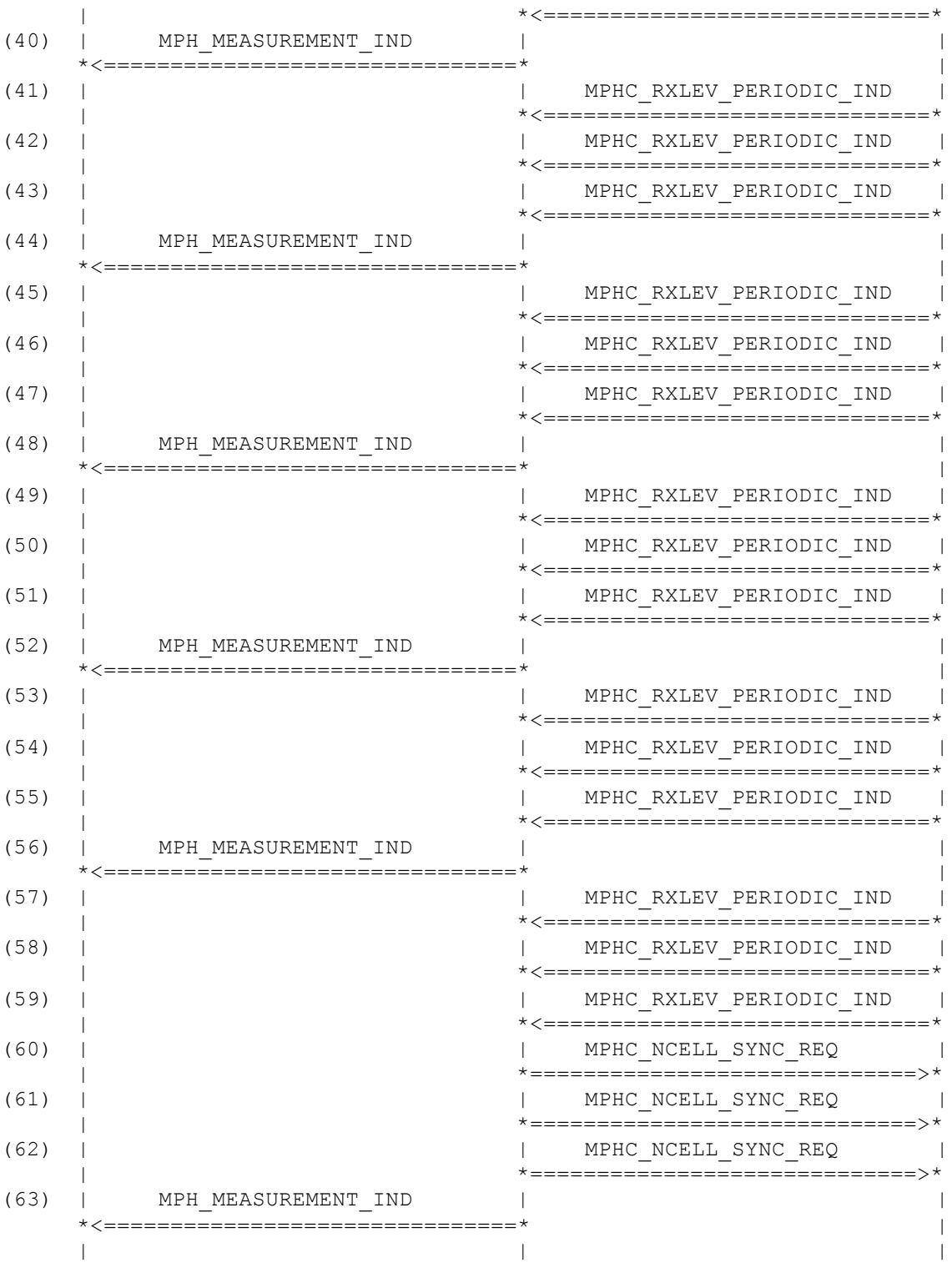
4.15.12 ALR902: Synchronisation to Neighbour Cells successful (sys info 4)

Description: The BA list contains the serving cell 23 and the neighbour cells 1, 14 and 124. The fieldstrength is 56 for channel 23, 12 for channel 1, 44 for channel 14 and 25 for channel 124 (all values in GSM range). The ranking for the neighbour cells is 14, 124 and channel 1. Each report contains two fieldstrength values per channel. The multiframe period is set to 6. The first measurement report is send to RR after five reports from PL. Then after each three reports from PL a measurement report is send to RR.

Preamble: ALR046A




(7) MPHC_RXLEV_PERIODIC_IND
(8) MPHC_NCELL_SYNC_IND
(9) MPHC_NCELL_BCCH_REQ
(10) MPHC_RXLEV_PERIODIC_IND
(11) MPHC_NCELL_SYNC_IND
(12) MPHC_NCELL_BCCH_REQ
(13) MPHC_NCELL_SYNC_IND
(14) MPHC_NCELL_BCCH_REQ
(15) MPHC_RXLEV_PERIODIC_IND
(16) MPH_MEASUREMENT_IND
(17) MPHC_RXLEV_PERIODIC_IND
(18) MPHC_NCELL_BCCH_IND
(19) MPHC_STOP_NCELL_BCCH_REQ
(21) MPHC_NCELL_BCCH_IND
(22) MPHC_STOP_NCELL_BCCH_REQ
(24) MPHC_NCELL_BCCH_IND
(25) MPHC_STOP_NCELL_BCCH_REQ
(27) MPHC_RXLEV_PERIODIC_IND
(28) MPHC_RXLEV_PERIODIC_IND
(29) MPH_MEASUREMENT_IND
(30) MPH_UNITDATA_IND
(31) MPH_UNITDATA_IND
(32) MPH_UNITDATA_IND
(33) MPHC_RXLEV_PERIODIC_IND
(34) MPHC_RXLEV_PERIODIC_IND
(35) MPHC_RXLEV_PERIODIC_IND
(36) MPH_MEASUREMENT_IND
(37) MPHC_RXLEV_PERIODIC_IND
(38) MPHC_RXLEV_PERIODIC_IND
(39) MPHC_RXLEV_PERIODIC_IND



Parametrization

	Primitive	Parameter	Value
(1)	MPHC_RXLEV_PERIODIC_IND		
		result	NCELL_RESULT_1
		nbr_of_carriers	CHANNELS_8
		s_rxlev	RXLEV_56
		ba_id	BA_ID_1

(2) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_14
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_INVALID_TIMING_INFO

(3) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_124
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_INVALID_TIMING_INFO

(4) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_1
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_INVALID_TIMING_INFO

(5) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(6) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_918
ncells	NO_NCELLS
gprs_sync	NOT_USED

(7) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(8) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_14
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
bsic	BSIC_1

(9) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_14
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(10) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(11) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_124
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_124
time_alignment	TIME_ALIGNMT_124
bsic	BSIC_1

(12) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_124
fn_offset	FN_OFFSET_124
time_alignment	TIME_ALIGNMT_124
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(13) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_1
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_1
time_alignment	TIME_ALIGNMT_1
bsic	BSIC_1

(14) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_1
fn_offset	FN_OFFSET_1
time_alignment	TIME_ALIGNMT_1
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(15) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(16) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NO_NCELLS
gprs_sync	NOT_USED

(17) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(18) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_14
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_4
tc	TC_2
fn	FN_OFFSET_14

(19) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	STOP_SIZE_1
radio_freq_array	STOP_ARRAY_14

(20) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_1
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_4
tc	TC_2
fn	FN_OFFSET_1

(21) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	STOP_SIZE_1
radio_freq_array	STOP_ARRAY_1

(22) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_124
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_4
tc	TC_2
fn	FN_OFFSET_124

(23) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	STOP_SIZE_1
radio_freq_array	STOP_ARRAY_124

(24) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(25) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(26) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_1_14_124
gprs_sync	NOT_USED

(27) MPH_UNITDATA_IND

arfcn	ARFCN_1
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_4
ti	TI_0
loc_area_ident	LOC_AREA_IDENT_1

	cell_select	CELL_SELECT_1
	rach_ctrl	RACH_CTRL_1
	}	
(28) MPH_UNITDATA_IND		
	arfcn	ARFCN_14
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_4
	ti	TI_0
	loc_area_ident	LOC_AREA_IDENT_1
	cell_select	CELL_SELECT_1
	rach_ctrl	RACH_CTRL_1
	}	
(29) MPH_UNITDATA_IND		
	arfcn	ARFCN_124
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_4
	ti	TI_0
	loc_area_ident	LOC_AREA_IDENT_1
	cell_select	CELL_SELECT_1
	rach_ctrl	RACH_CTRL_1
	}	
(30) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(31) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(32) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(33) MPH_MEASUREMENT_IND		
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NCELLS_1_14_124
	gprs_sync	NOT_USED

(34) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(35) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(36) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(37) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_1_14_124
gprs_sync	NOT_USED

(38) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(39) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(40) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(41) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_1_14_124
gprs_sync	NOT_USED

(42) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(43) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(44) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(45) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_1_14_124
gprs_sync	NOT_USED

(46) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(47) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(48) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(49) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_1_14_124
gprs_sync	NOT_USED

(50) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(51) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(52) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(53) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_1_14_124
gprs_sync	NOT_USED

(54) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(55) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(56) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(57) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_14
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_VALID_TIMING_INFO_SB

(58) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_124
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_VALID_TIMING_INFO_SB

(59) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_1

	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_VALID_TIMING_INFO_SB

(60) MPH_MEASUREMENT_IND

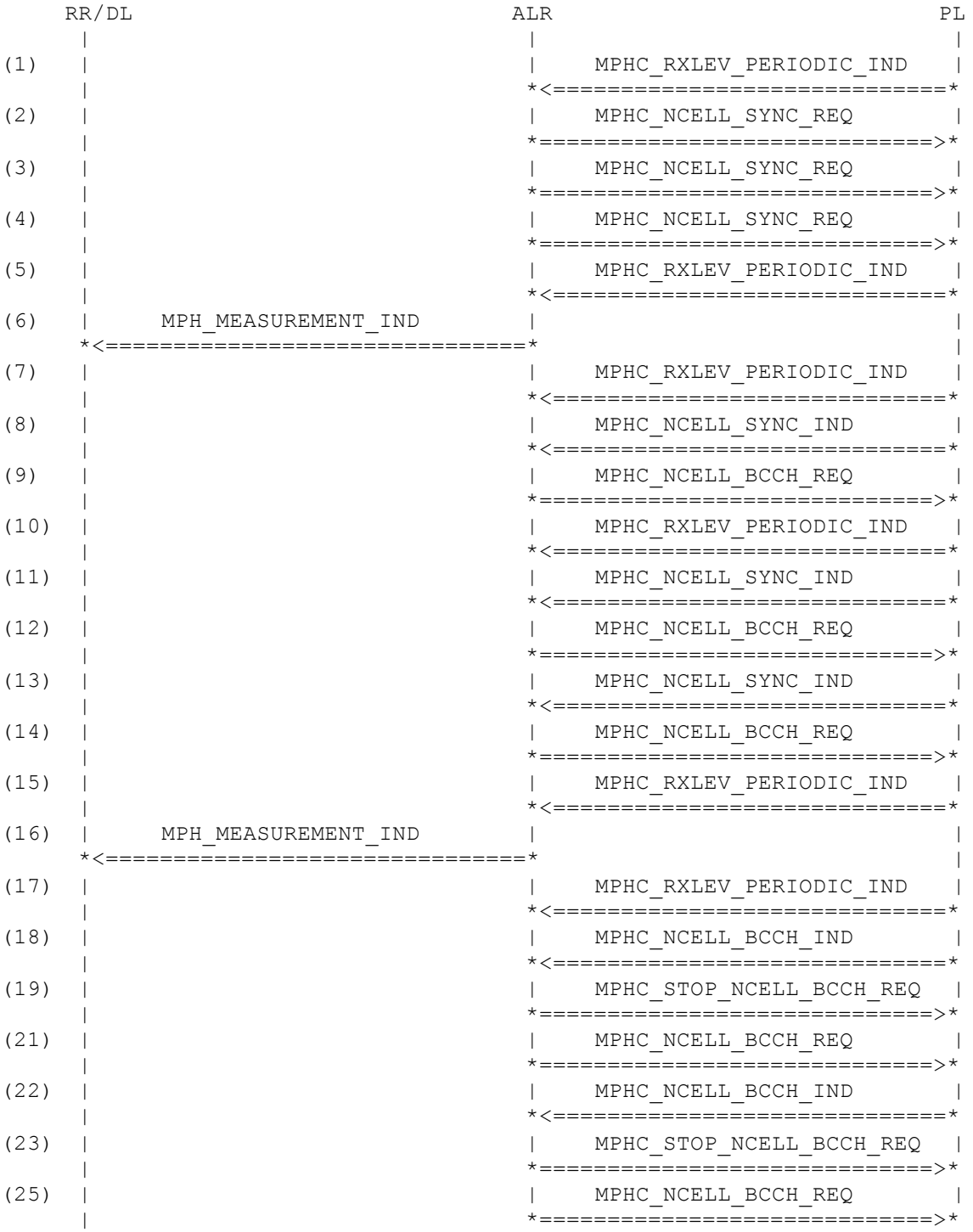
arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_1_14_124
gprs_sync	NOT_USED

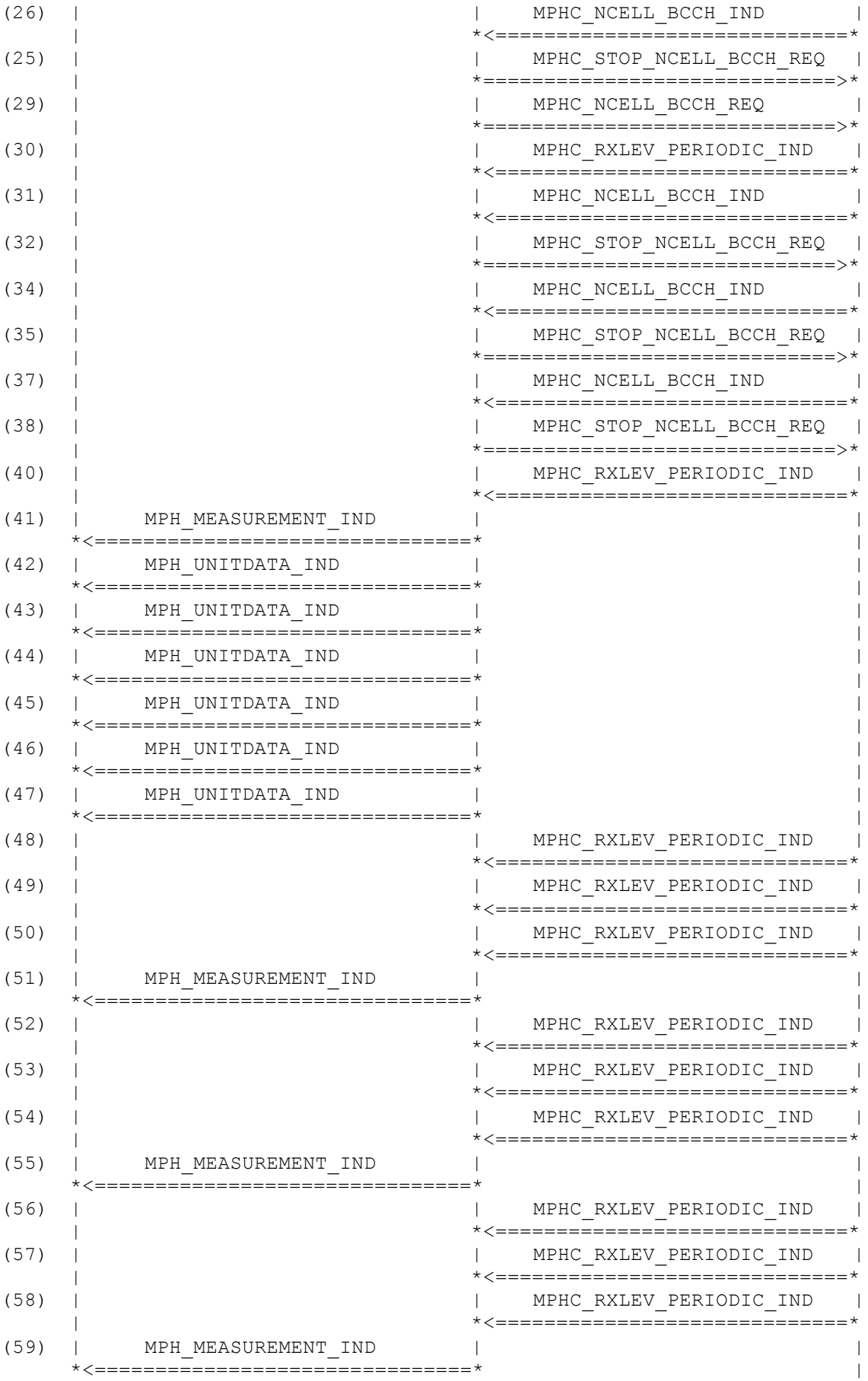
History:			
	24.09.99	MPA	Initial
	20.06.01	MSB	fn_offset corrected in (6)
	07.02.02	LG	changed value of ba_id

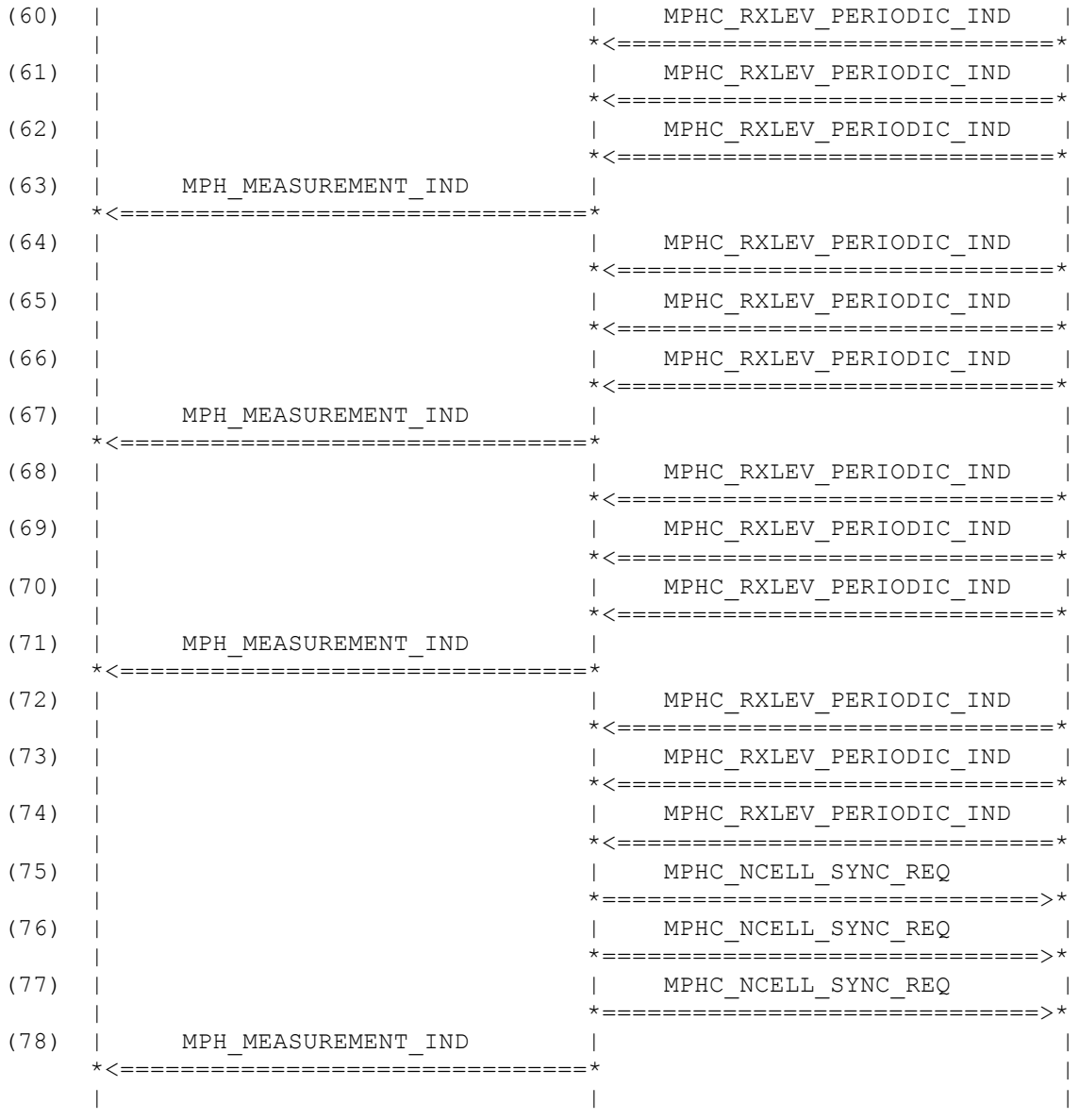
4.15.13 ALR903: Synchronisation to Neighbour Cells successful (sys info 4 and 7)

Description: The BA list contains the serving cell 23 and the neighbour cells 1, 14 and 124. The fieldstrength is 56 for channel 23, 12 for channel 1, 44 for channel 14 and 25 for channel 124 (all values in GSM range). The ranking for the neighbour cells is 14, 124 and channel 1. Each report contains two fieldstrength values per channel. The multiframe period is set to 6. The first measurement report is send to RR after five reports from PL. Then after each three reports from PL a measurement report is send to RR.

Preamble: ALR046A




(26) MPHC_NCELL_BCCH_IND
(25) MPHC_STOP_NCELL_BCCH_REQ
(29) MPHC_NCELL_BCCH_REQ
(30) MPHC_RXLEV_PERIODIC_IND
(31) MPHC_NCELL_BCCH_IND
(32) MPHC_STOP_NCELL_BCCH_REQ
(34) MPHC_NCELL_BCCH_IND
(35) MPHC_STOP_NCELL_BCCH_REQ
(37) MPHC_NCELL_BCCH_IND
(38) MPHC_STOP_NCELL_BCCH_REQ
(40) MPHC_RXLEV_PERIODIC_IND
(41) MPH_MEASUREMENT_IND
(42) MPH_UNITDATA_IND
(43) MPH_UNITDATA_IND
(44) MPH_UNITDATA_IND
(45) MPH_UNITDATA_IND
(46) MPH_UNITDATA_IND
(47) MPH_UNITDATA_IND
(48) MPHC_RXLEV_PERIODIC_IND
(49) MPHC_RXLEV_PERIODIC_IND
(50) MPHC_RXLEV_PERIODIC_IND
(51) MPH_MEASUREMENT_IND
(52) MPHC_RXLEV_PERIODIC_IND
(53) MPHC_RXLEV_PERIODIC_IND
(54) MPHC_RXLEV_PERIODIC_IND
(55) MPH_MEASUREMENT_IND
(56) MPHC_RXLEV_PERIODIC_IND
(57) MPHC_RXLEV_PERIODIC_IND
(58) MPHC_RXLEV_PERIODIC_IND
(59) MPH_MEASUREMENT_IND



Parametrization

	Primitive	Parameter	Value
(1)	MPHC_RXLEV_PERIODIC_IND		
		result	NCELL_RESULT_1
		nbr_of_carriers	CHANNELS_8
		s_rxlev	RXLEV_56
		ba_id	BA_ID_1
(2)	MPHC_NCELL_SYNC_REQ		
		radio_freq	ARFCN_14
		fn_offset	NOT_USED
		time_alignment	NOT_USED
		timing_validity	TV_INVALID_TIMING_INFO
(3)	MPHC_NCELL_SYNC_REQ		
		radio_freq	ARFCN_124
		fn_offset	NOT_USED
		time_alignment	NOT_USED
		timing_validity	TV_INVALID_TIMING_INFO

(4)	MPHC_NCELL_SYNC_REQ		
		radio_freq	ARFCN_1
		fn_offset	NOT_USED
		time_alignment	NOT_USED
		timing_validity	TV_INVALID_TIMING_INFO
(5)	MPHC_RXLEV_PERIODIC_IND		
		result	NCELL_RESULT_1
		nbr_of_carriers	CHANNELS_8
		s_rxlev	RXLEV_56
		ba_id	BA_ID_1
(6)	MPH_MEASUREMENT_IND		
		arfcn	ARFCN_23
		rx_lev_full	RXLEV_56
		rx_lev_sub	NOT_USED
		rx_qual_full	NOT_USED
		rx_qual_sub	NOT_USED
		dtx	NOT_USED
		otd	NOT_USED
		valid	VALID_REPORT
		fn_offset	FN_OFFSET_918
		ncells	NO_NCELLS
		gprs_sync	NOT_USED
(7)	MPHC_RXLEV_PERIODIC_IND		
		result	NCELL_RESULT_1
		nbr_of_carriers	CHANNELS_8
		s_rxlev	RXLEV_56
		ba_id	BA_ID_1
(8)	MPHC_NCELL_SYNC_IND		
		radio_freq	ARFCN_14
		sb_flag	SB_FOUND
		fn_offset	FN_OFFSET_14
		time_alignment	TIME_ALIGNMT_14
		bsic	BSIC_1
(9)	MPHC_NCELL_BCCH_REQ		
		radio_freq	ARFCN_14
		fn_offset	FN_OFFSET_14
		time_alignment	TIME_ALIGNMT_14
		tsc	BSIC_1
		bcch_blocks_required	NCELL_BCCH_SI_3_4
		gprs_prio	NOT_USED
(10)		MPHC_RXLEV_PERIODIC_IND	
		result	NCELL_RESULT_1
		nbr_of_carriers	CHANNELS_8
		s_rxlev	RXLEV_56
		ba_id	BA_ID_1
(11)		MPHC_NCELL_SYNC_IND	
		radio_freq	ARFCN_124
		sb_flag	SB_FOUND
		fn_offset	FN_OFFSET_124
		time_alignment	TIME_ALIGNMT_124
		bsic	BSIC_1
(12)		MPHC_NCELL_BCCH_REQ	
		radio_freq	ARFCN_124
		fn_offset	FN_OFFSET_124
		time_alignment	TIME_ALIGNMT_124

	tsc	BSIC_1
	bcch_blocks_required	NCELL_BCCH_SI_3_4
	gprs_prio	NOT_USED
(13)	MPHC_NCELL_SYNC_IND	
	radio_freq	ARFCN_1
	sb_flag	SB_FOUND
	fn_offset	FN_OFFSET_1
	time_alignment	TIME_ALIGNMT_1
	bsic	BSIC_1
(14)	MPHC_NCELL_BCCH_REQ	
	radio_freq	ARFCN_1
	fn_offset	FN_OFFSET_1
	time_alignment	TIME_ALIGNMT_1
	tsc	BSIC_1
	bcch_blocks_required	NCELL_BCCH_SI_3_4
	gprs_prio	NOT_USED
(15)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(16)	MPH_MEASUREMENT_IND	
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NO_NCELLS
	gprs_sync	NOT_USED
(17)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(18)	MPHC_NCELL_BCCH_IND	
	radio_freq	ARFCN_14
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_4_ACS
	tc	TC_2
	fn	FN_OFFSET_14
(19)	MPHC_STOP_NCELL_BCCH_REQ	
	radio_freq_array_size	STOP_SIZE_1
	radio_freq_array	STOP_ARRAY_14
(20)	MPHC_NCELL_BCCH_REQ	
	radio_freq	ARFCN_14
	fn_offset	FN_OFFSET_14
	time_alignment	TIME_ALIGNMT_14
	tsc	BSIC_1
	bcch_blocks_required	NCELL_BCCH_SI_3_7_8
	gprs_prio	NOT_USED

(21)	MPHC_NCELL_BCCH_IND	
	radio_freq	ARFCN_1
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_4_ACS
	tc	TC_2
	fn	FN_OFFSET_1
(22)	MPHC_STOP_NCELL_BCCH_REQ	
	radio_freq_array_size	STOP_SIZE_1
	radio_freq_array	STOP_ARRAY_1
(23)	MPHC_NCELL_BCCH_REQ	
	radio_freq	ARFCN_1
	fn_offset	FN_OFFSET_1
	time_alignment	TIME_ALIGNMT_1
	tsc	BSIC_1
	bcch_blocks_required	NCELL_BCCH_SI_3_7_8
	gprs_prio	NOT_USED
(24)	MPHC_NCELL_BCCH_IND	
	radio_freq	ARFCN_124
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_4_ACS
	tc	TC_2
	fn	FN_OFFSET_124
(25)	MPHC_STOP_NCELL_BCCH_REQ	
	radio_freq_array_size	STOP_SIZE_1
	radio_freq_array	STOP_ARRAY_124
(26)	MPHC_NCELL_BCCH_REQ	
	radio_freq	ARFCN_124
	fn_offset	FN_OFFSET_124
	time_alignment	TIME_ALIGNMT_124
	tsc	BSIC_1
	bcch_blocks_required	NCELL_BCCH_SI_3_7_8
	gprs_prio	NOT_USED
(27)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(28)	MPHC_NCELL_BCCH_IND	
	radio_freq	ARFCN_14
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_7
	tc	TC_2
	fn	FN_OFFSET_14
(29)	MPHC_STOP_NCELL_BCCH_REQ	
	radio_freq_array_size	STOP_SIZE_1
	radio_freq_array	STOP_ARRAY_14
(30)	MPHC_NCELL_BCCH_IND	
	radio_freq	ARFCN_1
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_7

	tc	TC_2
	fn	FN_OFFSET_1
(31)	MPHC_STOP_NCELL_BCCH_REQ	
	radio_freq_array_size	STOP_SIZE_1
	radio_freq_array	STOP_ARRAY_1
(32)	MPHC_NCELL_BCCH_IND	
	radio_freq	ARFCN_124
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_7
	tc	TC_2
	fn	FN_OFFSET_124
(33)	MPHC_STOP_NCELL_BCCH_REQ	
	radio_freq_array_size	STOP_SIZE_1
	radio_freq_array	STOP_ARRAY_124
(34)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(35)	MPH_MEASUREMENT_IND	
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NCELLS_1_14_124
	gprs_sync	NOT_USED
(36)	MPH_UNITDATA_IND	
	arfcn	ARFCN_1
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_4
	ti	TI_0
	loc_area_ident	LOC_AREA_IDENT_1
	cell_select	CELL_SELECT_2
	rach_ctrl	RACH_CTRL_1
	}	
(37)	MPH_UNITDATA_IND	
	arfcn	ARFCN_1
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_7
	ti	TI_0

	si7_rest_oct	SI7_REST_OCT_1
	}	
(38)	MPH_UNITDATA_IND	
	arfcn	ARFCN_14
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_4
	ti	TI_0
	loc_area_ident	LOC_AREA_IDENT_1
	cell_select	CELL_SELECT_2
	rach_ctrl	RACH_CTRL_1
	}	
(39)	MPH_UNITDATA_IND	
	arfcn	ARFCN_14
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_7
	ti	TI_0
	si7_rest_oct	SI7_REST_OCT_1
	}	
(40)	MPH_UNITDATA_IND	
	arfcn	ARFCN_124
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_4
	ti	TI_0
	loc_area_ident	LOC_AREA_IDENT_1
	cell_select	CELL_SELECT_2
	rach_ctrl	RACH_CTRL_1
	}	
(41)	MPH_UNITDATA_IND	
	arfcn	ARFCN_124
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_7
	ti	TI_0
	si7_rest_oct	SI7_REST_OCT_1
	}	
(42)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1

(43) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(44) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(45) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_1_14_124
gprs_sync	NOT_USED

(46) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(47) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(48) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(49) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_1_14_124
gprs_sync	NOT_USED

(50) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(51) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(52) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(53) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_1_14_124
gprs_sync	NOT_USED

(54) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(55) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(56) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(57) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_1_14_124
gprs_sync	NOT_USED

(58) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(59) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(60) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(61) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_1_14_124
gprs_sync	NOT_USED

(62) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(63) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(64) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(65) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_1_14_124
gprs_sync	NOT_USED

(66) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

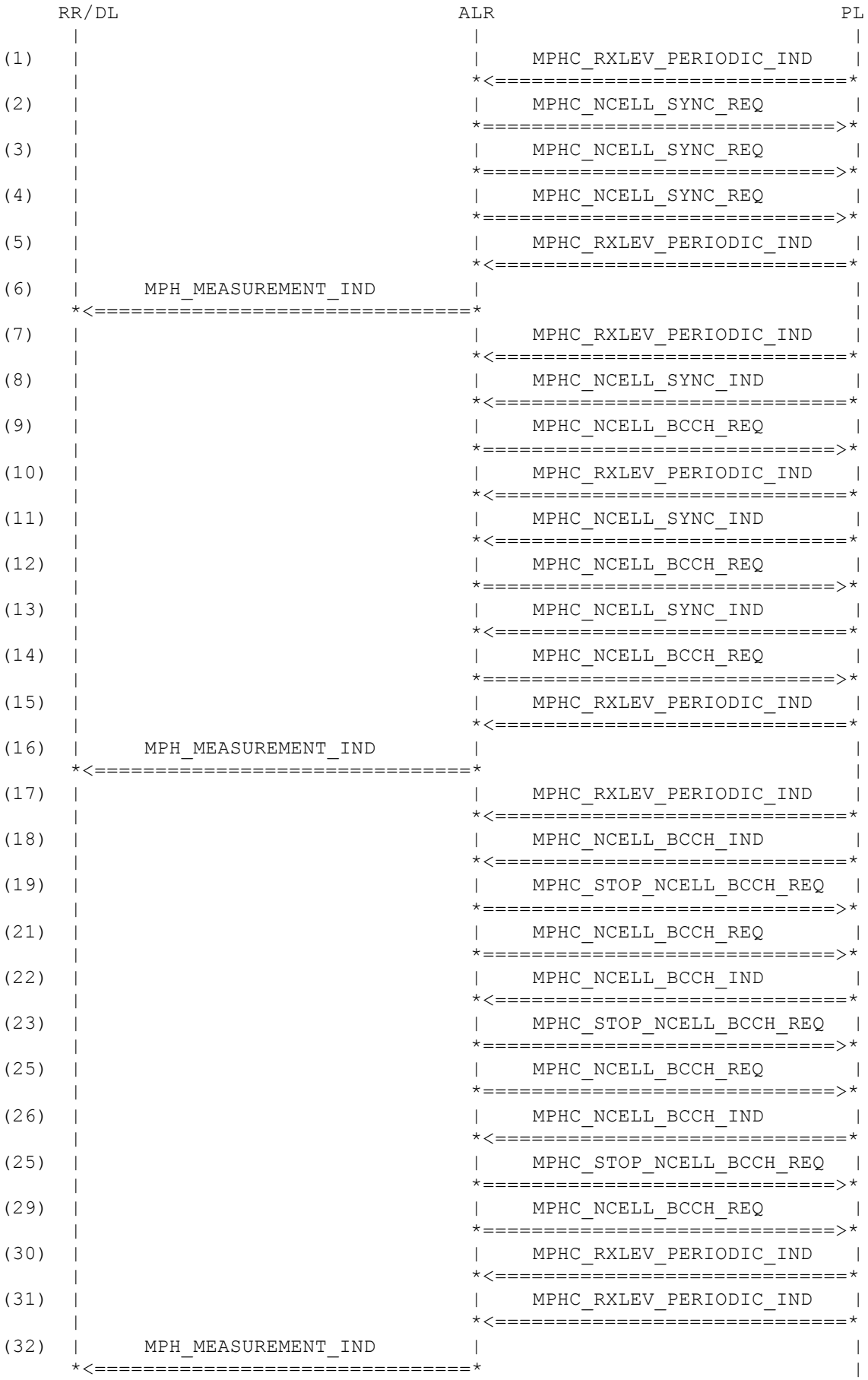
(67)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(68)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(69)	MPHC_NCELL_SYNC_REQ	
	radio_freq	ARFCN_14
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_VALID_TIMING_INFO_SB
(70)	MPHC_NCELL_SYNC_REQ	
	radio_freq	ARFCN_124
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_VALID_TIMING_INFO_SB
(71)	MPHC_NCELL_SYNC_REQ	
	radio_freq	ARFCN_1
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_VALID_TIMING_INFO_SB
(72)	MPH_MEASUREMENT_IND	
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NCELLS_1_14_124
	gprs_sync	NOT_USED

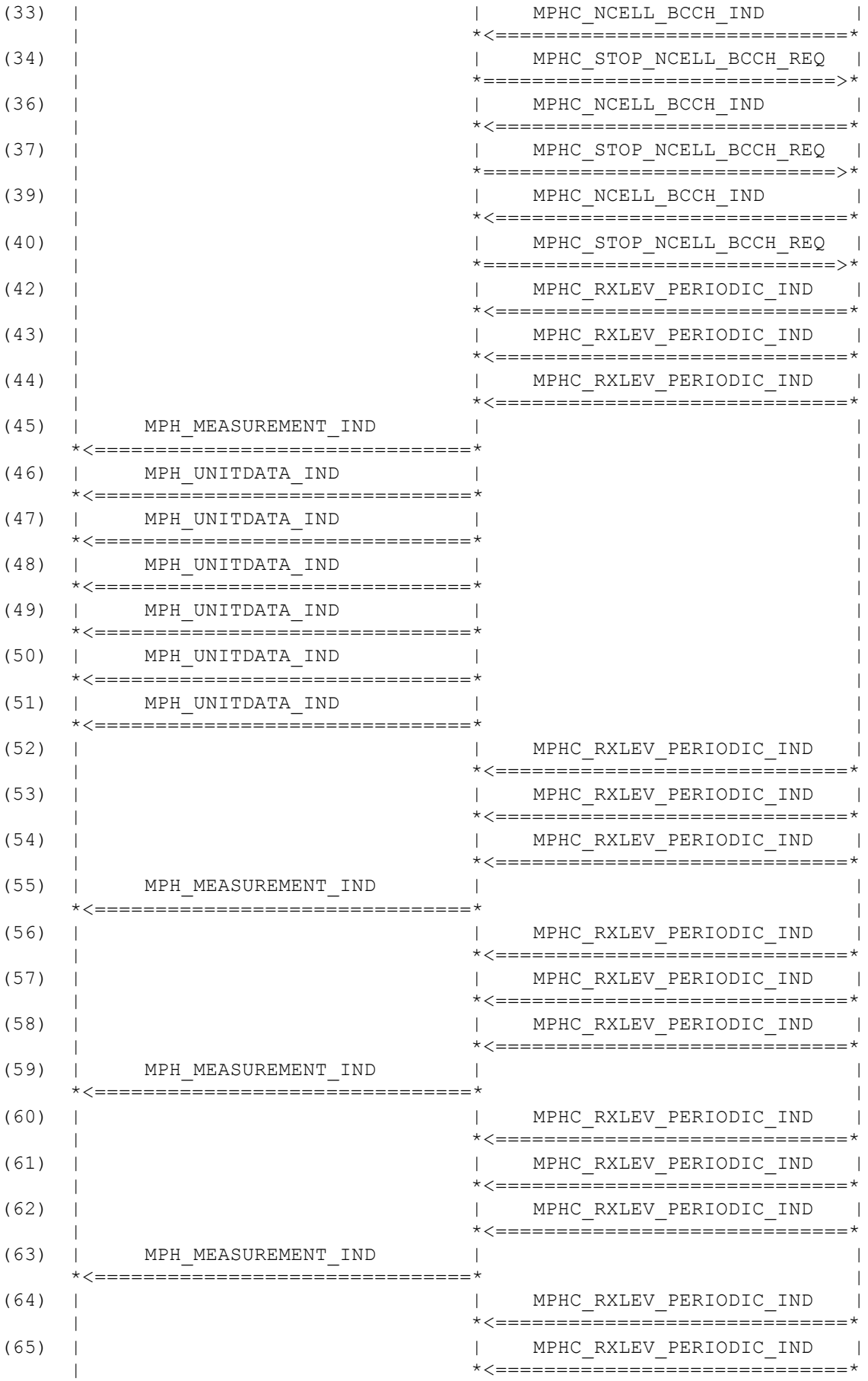
History:			
	24.09.99	MPA	Initial
	20.06.01	MSB	fn_offset corrected in (6)
	07.02.02	LG	changed value of ba_id

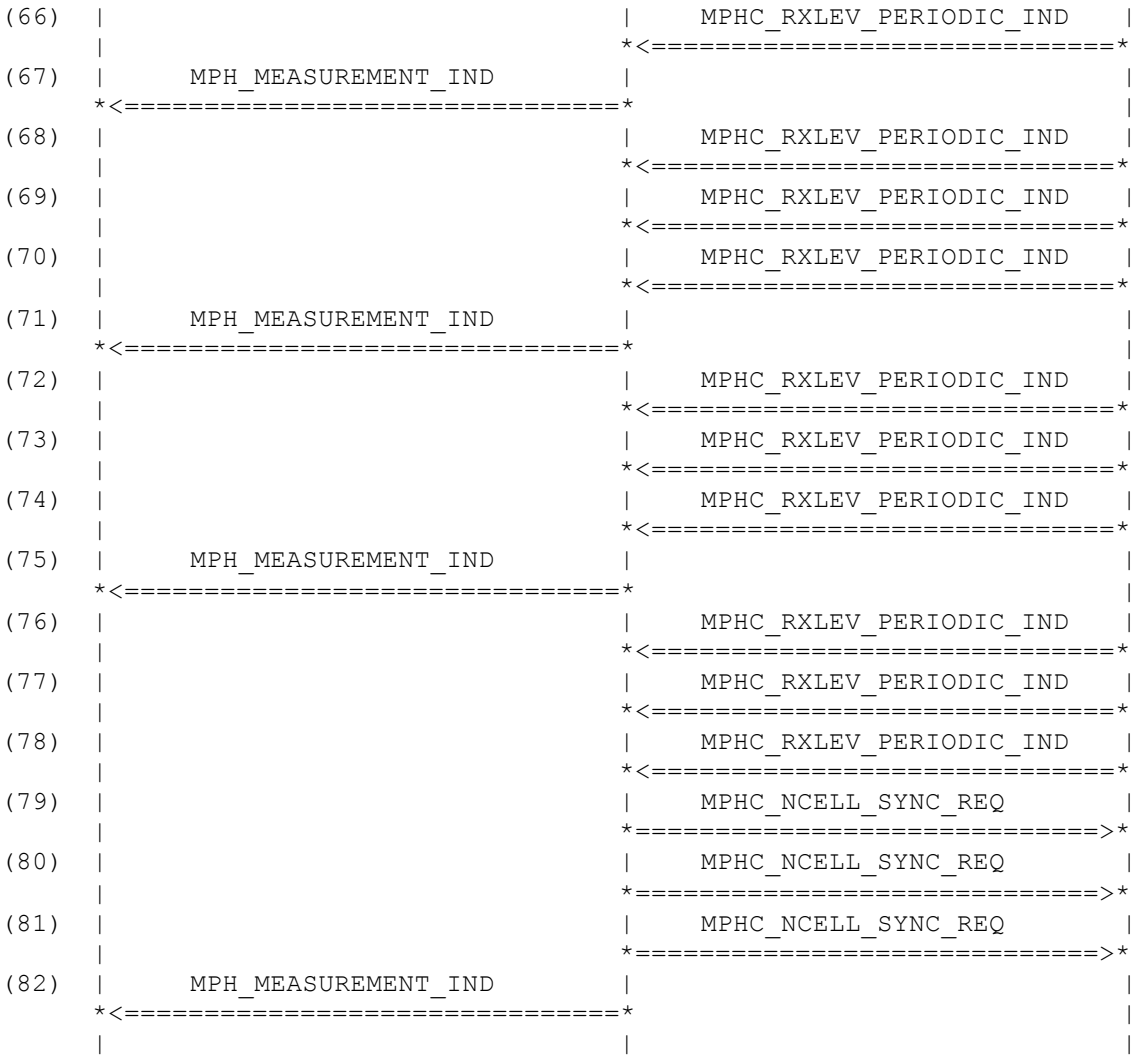
4.15.14 ALR904: Synchronisation to Neighbour Cells successful (sys info 4 and 8)

Description: The BA list contains the serving cell 23 and the neighbour cells 1, 14 and 124. The fieldstrength is 56 for channel 23, 12 for channel 1, 44 for channel 14 and 25 for channel 124 (all values in GSM range). The ranking for the neighbour cells is 14, 124 and channel 1. Each report contains two fieldstrength values per channel. The multiframe period is set to 6. The first measurement report is send to RR after five reports from PL. Then after each three reports from PL a measurement report is send to RR.

Preamble: ALR046A


RR/DL
ALR
PL
(1) MPHC_RXLEV_PERIODIC_IND
(2) MPHC_NCELL_SYNC_REQ
(3) MPHC_NCELL_SYNC_REQ
(4) MPHC_NCELL_SYNC_REQ
(5) MPHC_RXLEV_PERIODIC_IND
(6) MPH_MEASUREMENT_IND
(7) MPHC_RXLEV_PERIODIC_IND
(8) MPHC_NCELL_SYNC_IND
(9) MPHC_NCELL_BCCH_REQ
(10) MPHC_RXLEV_PERIODIC_IND
(11) MPHC_NCELL_SYNC_IND
(12) MPHC_NCELL_BCCH_REQ
(13) MPHC_NCELL_SYNC_IND
(14) MPHC_NCELL_BCCH_REQ
(15) MPHC_RXLEV_PERIODIC_IND
(16) MPH_MEASUREMENT_IND
(17) MPHC_RXLEV_PERIODIC_IND
(18) MPHC_NCELL_BCCH_IND
(19) MPHC_STOP_NCELL_BCCH_REQ
(21) MPHC_NCELL_BCCH_REQ
(22) MPHC_NCELL_BCCH_IND
(23) MPHC_STOP_NCELL_BCCH_REQ
(25) MPHC_NCELL_BCCH_REQ
(26) MPHC_NCELL_BCCH_IND
(25) MPHC_STOP_NCELL_BCCH_REQ
(29) MPHC_NCELL_BCCH_REQ
(30) MPHC_RXLEV_PERIODIC_IND
(31) MPHC_RXLEV_PERIODIC_IND
(32) MPH_MEASUREMENT_IND


(33) | MPHC_NCELL_BCCH_IND |
(34) | MPHC_STOP_NCELL_BCCH_REQ |
(36) | MPHC_NCELL_BCCH_IND |
(37) | MPHC_STOP_NCELL_BCCH_REQ |
(39) | MPHC_NCELL_BCCH_IND |
(40) | MPHC_STOP_NCELL_BCCH_REQ |
(42) | MPHC_RXLEV_PERIODIC_IND |
(43) | MPHC_RXLEV_PERIODIC_IND |
(44) | MPHC_RXLEV_PERIODIC_IND |
(45) | MPH_MEASUREMENT_IND |
(46) | MPH_UNITDATA_IND |
(47) | MPH_UNITDATA_IND |
(48) | MPH_UNITDATA_IND |
(49) | MPH_UNITDATA_IND |
(50) | MPH_UNITDATA_IND |
(51) | MPH_UNITDATA_IND |
(52) | MPHC_RXLEV_PERIODIC_IND |
(53) | MPHC_RXLEV_PERIODIC_IND |
(54) | MPHC_RXLEV_PERIODIC_IND |
(55) | MPH_MEASUREMENT_IND |
(56) | MPHC_RXLEV_PERIODIC_IND |
(57) | MPHC_RXLEV_PERIODIC_IND |
(58) | MPHC_RXLEV_PERIODIC_IND |
(59) | MPH_MEASUREMENT_IND |
(60) | MPHC_RXLEV_PERIODIC_IND |
(61) | MPHC_RXLEV_PERIODIC_IND |
(62) | MPHC_RXLEV_PERIODIC_IND |
(63) | MPH_MEASUREMENT_IND |
(64) | MPHC_RXLEV_PERIODIC_IND |
(65) | MPHC_RXLEV_PERIODIC_IND |



Parametrization

	Primitive	Parameter	Value
(1)	MPHC_RXLEV_PERIODIC_IND		
		result	NCELL_RESULT_1
		nbr_of_carriers	CHANNELS_8
		s_rxlev	RXLEV_56
		ba_id	BA_ID_1
(2)	MPHC_NCELL_SYNC_REQ		
		radio_freq	ARFCN_14
		fn_offset	NOT_USED
		time_alignment	NOT_USED
		timing_validity	TV_INVALID_TIMING_INFO
(3)	MPHC_NCELL_SYNC_REQ		
		radio_freq	ARFCN_124
		fn_offset	NOT_USED
		time_alignment	NOT_USED
		timing_validity	TV_INVALID_TIMING_INFO
(4)	MPHC_NCELL_SYNC_REQ		
		radio_freq	ARFCN_1
		fn_offset	NOT_USED

		time_alignment	NOT_USED
		timing_validity	TV_INVALID_TIMING_INFO
(5)	MPHC_RXLEV_PERIODIC_IND		
		result	NCELL_RESULT_1
		nbr_of_carriers	CHANNELS_8
		s_rxlev	RXLEV_56
		ba_id	BA_ID_1
(6)	MPH_MEASUREMENT_IND		
		arfcn	ARFCN_23
		rx_lev_full	RXLEV_56
		rx_lev_sub	NOT_USED
		rx_qual_full	NOT_USED
		rx_qual_sub	NOT_USED
		dtx	NOT_USED
		otd	NOT_USED
		valid	VALID_REPORT
		fn_offset	FN_OFFSET_918
		ncells	NO_NCELLS
		gprs_sync	NOT_USED
(7)	MPHC_RXLEV_PERIODIC_IND		
		result	NCELL_RESULT_1
		nbr_of_carriers	CHANNELS_8
		s_rxlev	RXLEV_56
		ba_id	BA_ID_1
(8)	MPHC_NCELL_SYNC_IND		
		radio_freq	ARFCN_14
		sb_flag	SB_FOUND
		fn_offset	FN_OFFSET_14
		time_alignment	TIME_ALIGNMT_14
		bsic	BSIC_1
(9)	MPHC_NCELL_BCCH_REQ		
		radio_freq	ARFCN_14
		fn_offset	FN_OFFSET_14
		time_alignment	TIME_ALIGNMT_14
		tsc	BSIC_1
		bcch_blocks_required	NCELL_BCCH_SI_3_4
		gprs_prio	NOT_USED
(10)		MPHC_RXLEV_PERIODIC_IND	
		result	NCELL_RESULT_1
		nbr_of_carriers	CHANNELS_8
		s_rxlev	RXLEV_56
		ba_id	BA_ID_1
(11)		MPHC_NCELL_SYNC_IND	
		radio_freq	ARFCN_124
		sb_flag	SB_FOUND
		fn_offset	FN_OFFSET_124
		time_alignment	TIME_ALIGNMT_124
		bsic	BSIC_1
(12)		MPHC_NCELL_BCCH_REQ	
		radio_freq	ARFCN_124
		fn_offset	FN_OFFSET_124
		time_alignment	TIME_ALIGNMT_124
		tsc	BSIC_1
		bcch_blocks_required	NCELL_BCCH_SI_3_4
		gprs_prio	NOT_USED

(13) MPHC_NCELL_SYNC_IND
radio_freq ARFCN_1
sb_flag SB_FOUND
fn_offset FN_OFFSET_1
time_alignment TIME_ALIGNMT_1
bsic BSIC_1

(14) MPHC_NCELL_BCCH_REQ
radio_freq ARFCN_1
fn_offset FN_OFFSET_1
time_alignment TIME_ALIGNMT_1
tsc BSIC_1
bcch_blocks_required NCELL_BCCH_SI_3_4
gprs_prio NOT_USED

(15) MPHC_RXLEV_PERIODIC_IND
result NCELL_RESULT_1
nbr_of_carriers CHANNELS_8
s_rxlev RXLEV_56
ba_id BA_ID_1

(16) MPH_MEASUREMENT_IND
arfcn ARFCN_23
rx_lev_full RXLEV_56
rx_lev_sub NOT_USED
rx_qual_full NOT_USED
rx_qual_sub NOT_USED
dtx NOT_USED
otd NOT_USED
valid VALID_REPORT
fn_offset FN_OFFSET_306
ncells NO_NCELLS
gprs_sync NOT_USED

(17) MPHC_RXLEV_PERIODIC_IND
result NCELL_RESULT_1
nbr_of_carriers CHANNELS_8
s_rxlev RXLEV_56
ba_id BA_ID_1

(18) MPHC_NCELL_BCCH_IND
radio_freq ARFCN_14
l2_channel L2_CHANNEL_NBCCH
error_flag VALID_BLOCK
l2_frame L2_SYS_INFO_4_ACS
tc TC_2
fn FN_OFFSET_14

(19) MPHC_STOP_NCELL_BCCH_REQ
radio_freq_array_size STOP_SIZE_1
radio_freq_array STOP_ARRAY_14

(20) MPHC_NCELL_BCCH_REQ
radio_freq ARFCN_14
fn_offset FN_OFFSET_14
time_alignment TIME_ALIGNMT_14
tsc BSIC_1
bcch_blocks_required NCELL_BCCH_SI_3_7_8
gprs_prio NOT_USED

(21) MPHC_NCELL_BCCH_IND
radio_freq ARFCN_1
l2_channel L2_CHANNEL_NBCCH

	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_4_ACS
	tc	TC_2
	fn	FN_OFFSET_1
(22)	MPHC_STOP_NCELL_BCCH_REQ	
	radio_freq_array_size	STOP_SIZE_1
	radio_freq_array	STOP_ARRAY_1
(23)	MPHC_NCELL_BCCH_REQ	
	radio_freq	ARFCN_1
	fn_offset	FN_OFFSET_1
	time_alignment	TIME_ALIGNMT_1
	tsc	BSIC_1
	bcch_blocks_required	NCELL_BCCH_SI_3_7_8
	gprs_prio	NOT_USED
(24)	MPHC_NCELL_BCCH_IND	
	radio_freq	ARFCN_124
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_4_ACS
	tc	TC_2
	fn	FN_OFFSET_124
(25)	MPHC_STOP_NCELL_BCCH_REQ	
	radio_freq_array_size	STOP_SIZE_1
	radio_freq_array	STOP_ARRAY_124
(26)	MPHC_NCELL_BCCH_REQ	
	radio_freq	ARFCN_124
	fn_offset	FN_OFFSET_124
	time_alignment	TIME_ALIGNMT_124
	tsc	BSIC_1
	bcch_blocks_required	NCELL_BCCH_SI_3_7_8
	gprs_prio	NOT_USED
(27)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(28)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(29)	MPH_MEASUREMENT_IND	
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NO_NCELLS
	gprs_sync	NOT_USED

(30) MPHC_NCELL_BCCH_IND
radio_freq ARFCN_14
l2_channel L2_CHANNEL_NBCCH
error_flag VALID_BLOCK
l2_frame L2_SYS_INFO_8
tc TC_2
fn FN_OFFSET_14

(31) MPHC_STOP_NCELL_BCCH_REQ
radio_freq_array_size STOP_SIZE_1
radio_freq_array STOP_ARRAY_14

(32) MPHC_NCELL_BCCH_IND
radio_freq ARFCN_1
l2_channel L2_CHANNEL_NBCCH
error_flag VALID_BLOCK
l2_frame L2_SYS_INFO_8
tc TC_2
fn FN_OFFSET_1

(33) MPHC_STOP_NCELL_BCCH_REQ
radio_freq_array_size STOP_SIZE_1
radio_freq_array STOP_ARRAY_1

(34) MPHC_NCELL_BCCH_IND
radio_freq ARFCN_124
l2_channel L2_CHANNEL_NBCCH
error_flag VALID_BLOCK
l2_frame L2_SYS_INFO_8
tc TC_2
fn FN_OFFSET_124

(35) MPHC_STOP_NCELL_BCCH_REQ
radio_freq_array_size STOP_SIZE_1
radio_freq_array STOP_ARRAY_124

(36) MPHC_RXLEV_PERIODIC_IND
result NCELL_RESULT_1
nbr_of_carriers CHANNELS_8
s_rxlev RXLEV_56
ba_id BA_ID_1

(37) MPHC_RXLEV_PERIODIC_IND
result NCELL_RESULT_1
nbr_of_carriers CHANNELS_8
s_rxlev RXLEV_56
ba_id BA_ID_1

(38) MPHC_RXLEV_PERIODIC_IND
result NCELL_RESULT_1
nbr_of_carriers CHANNELS_8
s_rxlev RXLEV_56
ba_id BA_ID_1

(39) MPH_MEASUREMENT_IND
arfcn ARFCN_23
rx_lev_full RXLEV_56
rx_lev_sub NOT_USED
rx_qual_full NOT_USED
rx_qual_sub NOT_USED
dtx NOT_USED
otd NOT_USED
valid VALID_REPORT

	fn_offset	FN_OFFSET_306
	ncells	NCELLS_1_14_124
	gprs_sync	NOT_USED
(40)	MPH_UNITDATA_IND	
	arfcn	ARFCN_1
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_4
	ti	TI_0
	loc_area_ident	LOC_AREA_IDENT_1
	cell_select	CELL_SELECT_2
	rach_ctrl	RACH_CTRL_1
	}	
(41)	MPH_UNITDATA_IND	
	arfcn	ARFCN_1
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_8
	ti	TI_0
	si8_rest_oct	SI8_REST_OCT_1
	}	
(42)	MPH_UNITDATA_IND	
	arfcn	ARFCN_14
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_4
	ti	TI_0
	loc_area_ident	LOC_AREA_IDENT_1
	cell_select	CELL_SELECT_2
	rach_ctrl	RACH_CTRL_1
	}	
(43)	MPH_UNITDATA_IND	
	arfcn	ARFCN_14
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_8
	ti	TI_0
	si8_rest_oct	SI8_REST_OCT_1
	}	
(44)	MPH_UNITDATA_IND	
	arfcn	ARFCN_124
	fn	NOT_USED
	sdu	
	{	

	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_4
	ti	TI_0
	loc_area_ident	LOC_AREA_IDENT_1
	cell_select	CELL_SELECT_2
	rach_ctrl	RACH_CTRL_1
	}	
(45)	MPH_UNITDATA_IND	
	arfcn	ARFCN_124
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_8
	ti	TI_0
	si8_rest_oct	SI8_REST_OCT_1
	}	
(46)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(47)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(48)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(49)	MPH_MEASUREMENT_IND	
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NCELLS_1_14_124
	gprs_sync	NOT_USED
(50)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(51)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8

	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(52)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(53)	MPH_MEASUREMENT_IND	
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NCELLS_1_14_124
	gprs_sync	NOT_USED
(54)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(55)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(56)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(57)	MPH_MEASUREMENT_IND	
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NCELLS_1_14_124
	gprs_sync	NOT_USED
(58)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(59)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8

	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(60)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(61)	MPH_MEASUREMENT_IND	
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NCELLS_1_14_124
	gprs_sync	NOT_USED
(62)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(63)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(64)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(65)	MPH_MEASUREMENT_IND	
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NCELLS_1_14_124
	gprs_sync	NOT_USED
(66)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(67)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8

	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(68)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(69)	MPH_MEASUREMENT_IND	
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NCELLS_1_14_124
	gprs_sync	NOT_USED
(70)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(71)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(72)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(73)	MPHC_NCELL_SYNC_REQ	
	radio_freq	ARFCN_14
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_VALID_TIMING_INFO_SB
(74)	MPHC_NCELL_SYNC_REQ	
	radio_freq	ARFCN_124
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_VALID_TIMING_INFO_SB
(75)	MPHC_NCELL_SYNC_REQ	
	radio_freq	ARFCN_1
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_VALID_TIMING_INFO_SB
(76)	MPH_MEASUREMENT_IND	
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED

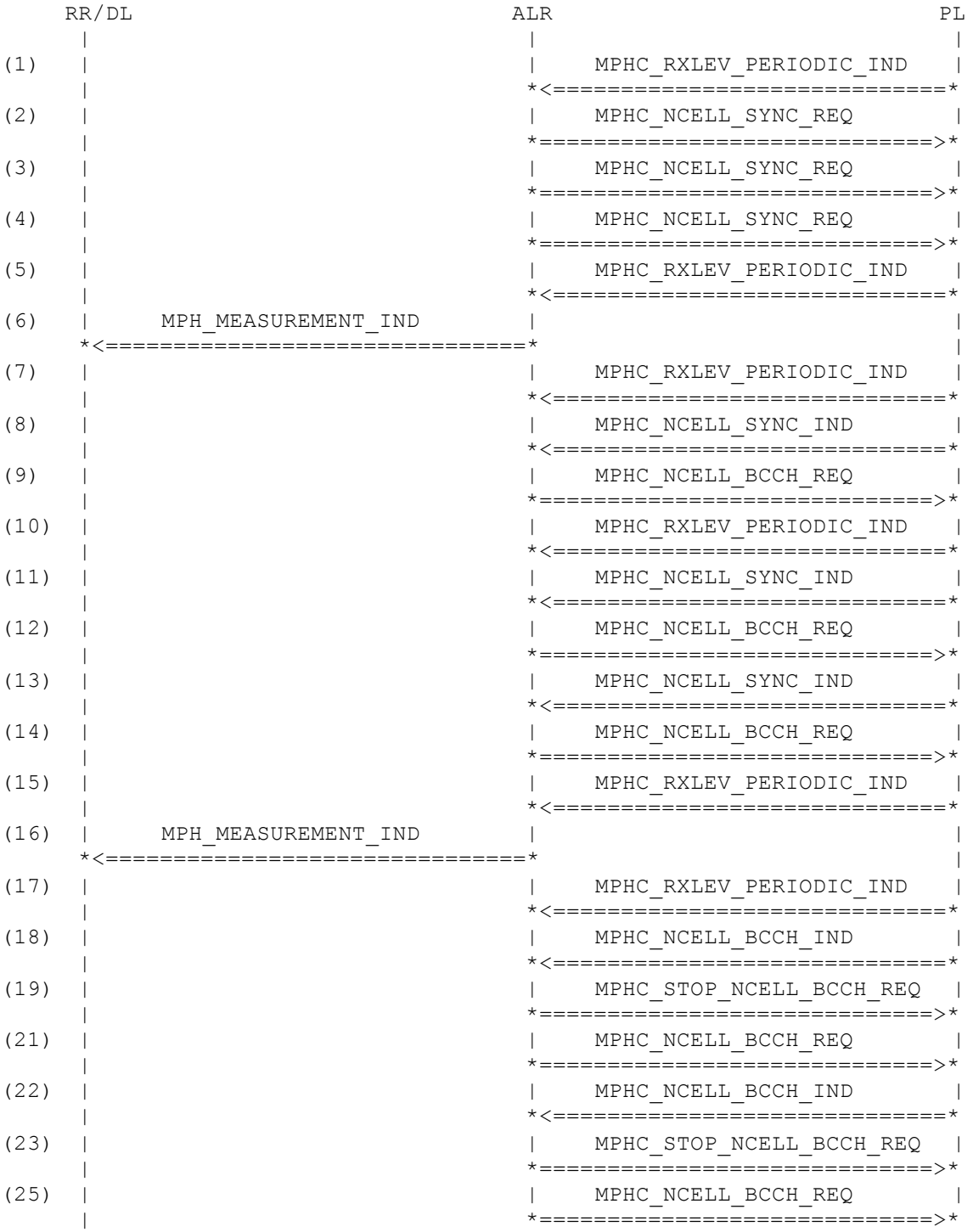
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_1_14_124
gprs_sync	NOT_USED

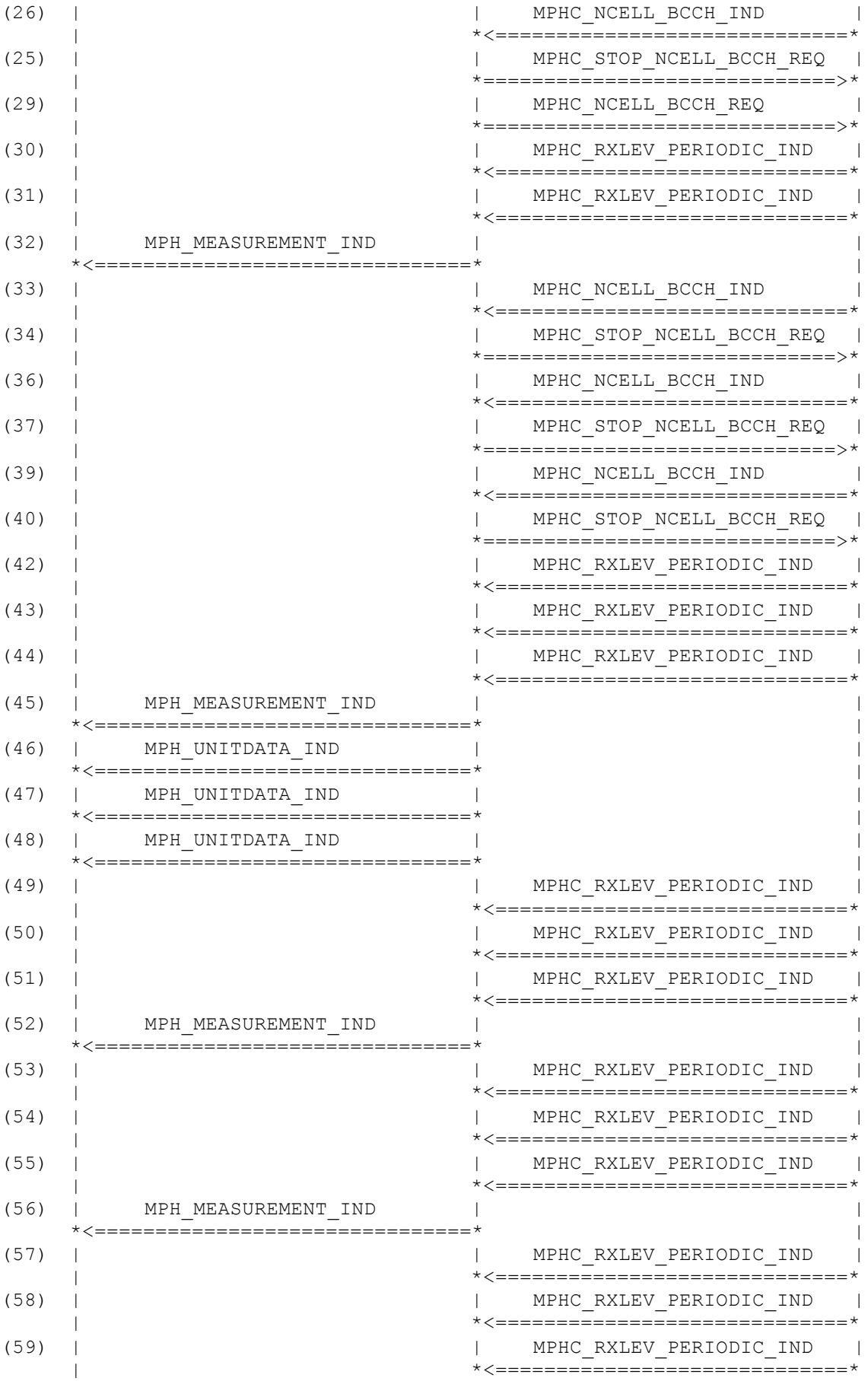
History:			
	24.09.99	MPA	Initial
	20.06.01	MSB	fn_offset corrected in (6)
	07.02.02	LG	changed value of ba_id

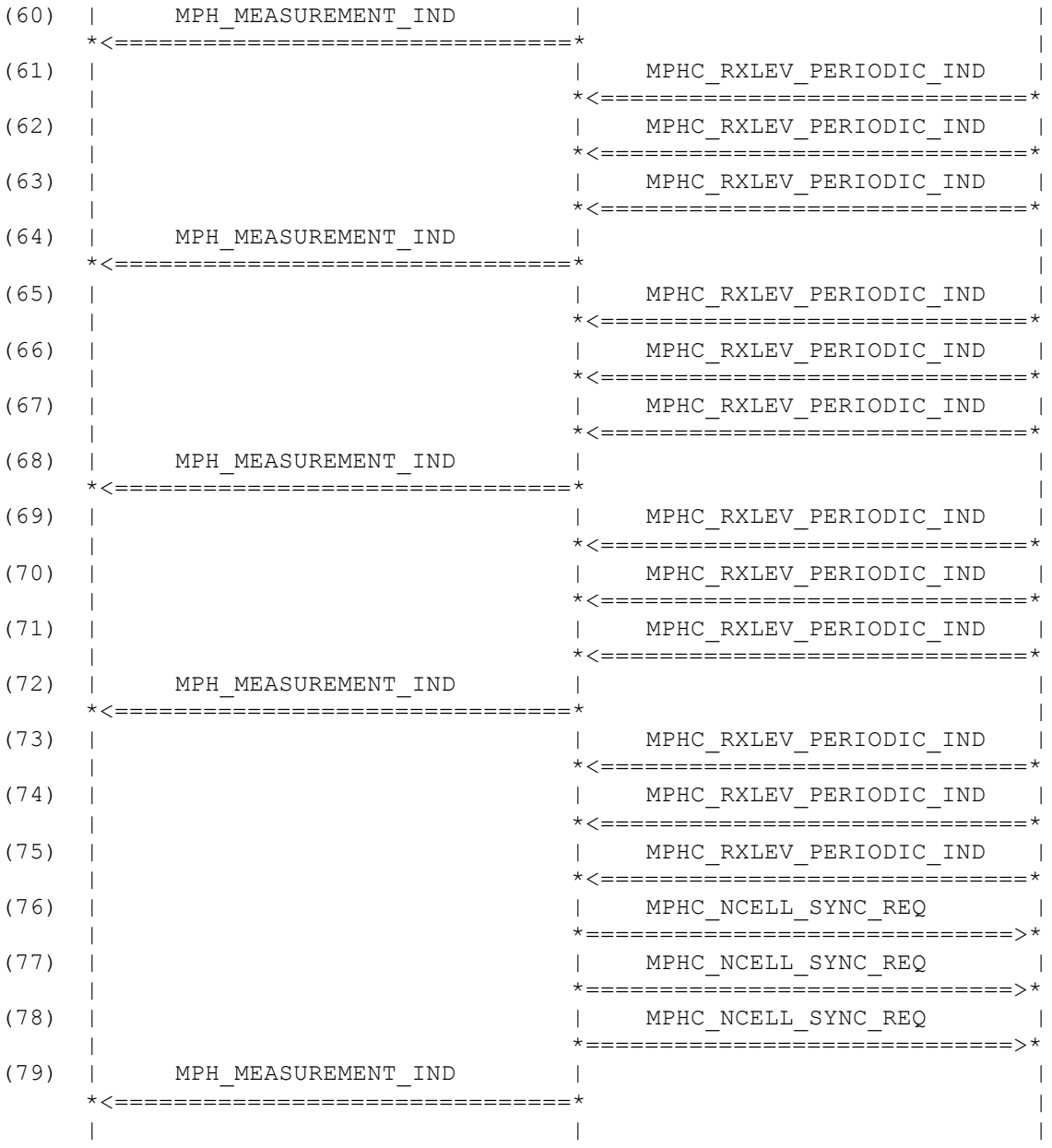
4.15.15 ALR905: Synchronisation to Neighbour Cells successful (unexpected msg and sys info 3)

Description: The BA list contains the serving cell 23 and the neighbour cells 1, 14 and 124. The fieldstrength is 56 for channel 23, 12 for channel 1, 44 for channel 14 and 25 for channel 124 (all values in GSM range). The ranking for the neighbour cells is 14, 124 and channel 1. Each report contains two fieldstrength values per channel. The multiframe period is set to 6. The first measurement report is send to RR after five reports from PL. Then after each three reports from PL a measurement report is send to RR.

Preamble: ALR046A




(26) MPHC_NCELL_BCCH_IND
(25) MPHC_STOP_NCELL_BCCH_REQ
(29) MPHC_NCELL_BCCH_REQ
(30) MPHC_RXLEV_PERIODIC_IND
(31) MPHC_RXLEV_PERIODIC_IND
(32) MPH_MEASUREMENT_IND
(33) MPHC_NCELL_BCCH_IND
(34) MPHC_STOP_NCELL_BCCH_REQ
(36) MPHC_NCELL_BCCH_IND
(37) MPHC_STOP_NCELL_BCCH_REQ
(39) MPHC_NCELL_BCCH_IND
(40) MPHC_STOP_NCELL_BCCH_REQ
(42) MPHC_RXLEV_PERIODIC_IND
(43) MPHC_RXLEV_PERIODIC_IND
(44) MPHC_RXLEV_PERIODIC_IND
(45) MPH_MEASUREMENT_IND
(46) MPH_UNITDATA_IND
(47) MPH_UNITDATA_IND
(48) MPH_UNITDATA_IND
(49) MPHC_RXLEV_PERIODIC_IND
(50) MPHC_RXLEV_PERIODIC_IND
(51) MPHC_RXLEV_PERIODIC_IND
(52) MPH_MEASUREMENT_IND
(53) MPHC_RXLEV_PERIODIC_IND
(54) MPHC_RXLEV_PERIODIC_IND
(55) MPHC_RXLEV_PERIODIC_IND
(56) MPH_MEASUREMENT_IND
(57) MPHC_RXLEV_PERIODIC_IND
(58) MPHC_RXLEV_PERIODIC_IND
(59) MPHC_RXLEV_PERIODIC_IND



Parametrization

	Primitive	Parameter	Value
(1)	MPHC_RXLEV_PERIODIC_IND		
		result	NCELL_RESULT_1
		nbr_of_carriers	CHANNELS_8
		s_rxlev	RXLEV_56
		ba_id	BA_ID_1
(2)	MPHC_NCELL_SYNC_REQ		
		radio_freq	ARFCN_14
		fn_offset	NOT_USED
		time_alignment	NOT_USED
		timing_validity	TV_INVALID_TIMING_INFO
(3)	MPHC_NCELL_SYNC_REQ		
		radio_freq	ARFCN_124
		fn_offset	NOT_USED

		time_alignment	NOT_USED
		timing_validity	TV_INVALID_TIMING_INFO
(4)	MPHC_NCELL_SYNC_REQ		
		radio_freq	ARFCN_1
		fn_offset	NOT_USED
		time_alignment	NOT_USED
		timing_validity	TV_INVALID_TIMING_INFO
(5)	MPHC_RXLEV_PERIODIC_IND		
		result	NCELL_RESULT_1
		nbr_of_carriers	CHANNELS_8
		s_rxlev	RXLEV_56
		ba_id	BA_ID_1
(6)	MPH_MEASUREMENT_IND		
		arfcn	ARFCN_23
		rx_lev_full	RXLEV_56
		rx_lev_sub	NOT_USED
		rx_qual_full	NOT_USED
		rx_qual_sub	NOT_USED
		dtx	NOT_USED
		otd	NOT_USED
		valid	VALID_REPORT
		fn_offset	FN_OFFSET_918
		ncells	NO_NCELLS
		gprs_sync	NOT_USED
(7)	MPHC_RXLEV_PERIODIC_IND		
		result	NCELL_RESULT_1
		nbr_of_carriers	CHANNELS_8
		s_rxlev	RXLEV_56
		ba_id	BA_ID_1
(8)	MPHC_NCELL_SYNC_IND		
		radio_freq	ARFCN_14
		sb_flag	SB_FOUND
		fn_offset	FN_OFFSET_14
		time_alignment	TIME_ALIGNMT_14
		bsic	BSIC_1
(9)	MPHC_NCELL_BCCH_REQ		
		radio_freq	ARFCN_14
		fn_offset	FN_OFFSET_14
		time_alignment	TIME_ALIGNMT_14
		tsc	BSIC_1
		bcch_blocks_required	NCELL_BCCH_SI_3_4
		gprs_prio	NOT_USED
(10)		MPHC_RXLEV_PERIODIC_IND	
		result	NCELL_RESULT_1
		nbr_of_carriers	CHANNELS_8
		s_rxlev	RXLEV_56
		ba_id	BA_ID_1
(11)		MPHC_NCELL_SYNC_IND	
		radio_freq	ARFCN_124
		sb_flag	SB_FOUND
		fn_offset	FN_OFFSET_124
		time_alignment	TIME_ALIGNMT_124
		bsic	BSIC_1

(12) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_124
fn_offset	FN_OFFSET_124
time_alignment	TIME_ALIGNMT_124
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(13) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_1
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_1
time_alignment	TIME_ALIGNMT_1
bsic	BSIC_1

(14) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_1
fn_offset	FN_OFFSET_1
time_alignment	TIME_ALIGNMT_1
tsc	BSIC_1
bcch_blocks_required	NCELL_BCCH_SI_3_4
gprs_prio	NOT_USED

(15) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(16) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NO_NCELLS
gprs_sync	NOT_USED

(17) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(18) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_14
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_2
tc	TC_2
fn	FN_OFFSET_14

(19) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	STOP_SIZE_1
radio_freq_array	STOP_ARRAY_14

(20) MPHC_NCELL_BCCH_REQ

radio_freq	ARFCN_14
fn_offset	FN_OFFSET_14

	time_alignment	TIME_ALIGNMT_14
	tsc	BSIC_1
	bcch_blocks_required	NCELL_BCCH_SI_3_4
	gprs_prio	NOT_USED
(21)	MPHC_NCELL_BCCH_IND	
	radio_freq	ARFCN_1
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_7
	tc	TC_2
	fn	FN_OFFSET_1
(22)	MPHC_STOP_NCELL_BCCH_REQ	
	radio_freq_array_size	STOP_SIZE_1
	radio_freq_array	STOP_ARRAY_1
(23)	MPHC_NCELL_BCCH_REQ	
	radio_freq	ARFCN_1
	fn_offset	FN_OFFSET_1
	time_alignment	TIME_ALIGNMT_1
	tsc	BSIC_1
	bcch_blocks_required	NCELL_BCCH_SI_3_4
	gprs_prio	NOT_USED
(24)	MPHC_NCELL_BCCH_IND	
	radio_freq	ARFCN_124
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_8
	tc	TC_2
	fn	FN_OFFSET_124
(25)	MPHC_STOP_NCELL_BCCH_REQ	
	radio_freq_array_size	STOP_SIZE_1
	radio_freq_array	STOP_ARRAY_124
(26)	MPHC_NCELL_BCCH_REQ	
	radio_freq	ARFCN_124
	fn_offset	FN_OFFSET_124
	time_alignment	TIME_ALIGNMT_124
	tsc	BSIC_1
	bcch_blocks_required	NCELL_BCCH_SI_3_4
	gprs_prio	NOT_USED
(27)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(28)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(29)	MPH_MEASUREMENT_IND	
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED

	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NO_NCELLS
	gprs_sync	NOT_USED
(30)	MPHC_NCELL_BCCH_IND	
	radio_freq	ARFCN_14
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_3
	tc	TC_2
	fn	FN_OFFSET_14
(31)	MPHC_STOP_NCELL_BCCH_REQ	
	radio_freq_array_size	STOP_SIZE_1
	radio_freq_array	STOP_ARRAY_14
(32)	MPHC_NCELL_BCCH_IND	
	radio_freq	ARFCN_1
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_3
	tc	TC_2
	fn	FN_OFFSET_1
(33)	MPHC_STOP_NCELL_BCCH_REQ	
	radio_freq_array_size	STOP_SIZE_1
	radio_freq_array	STOP_ARRAY_1
(34)	MPHC_NCELL_BCCH_IND	
	radio_freq	ARFCN_124
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_3
	tc	TC_2
	fn	FN_OFFSET_124
(35)	MPHC_STOP_NCELL_BCCH_REQ	
	radio_freq_array_size	STOP_SIZE_1
	radio_freq_array	STOP_ARRAY_124
(36)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(37)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(38)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(39)	MPH_MEASUREMENT_IND	
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56

	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NCELLS_1_14_124
	gprs_sync	NOT_USED
(40)	MPH_UNITDATA_IND	
	arfcn	ARFCN_1
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_3
	ti	TI_0
	cell_ident	CELL_IDENT_1
	loc_area_ident	LOC_AREA_IDENT_1
	ctrl_chan_desc	CTRL_CHAN_DESC_1
	cell_opt_bcch	CELL_OPT_BCCH_1
	cell_select	CELL_SELECT_1
	rach_ctrl	RACH_CTRL_1
	}	
(41)	MPH_UNITDATA_IND	
	arfcn	ARFCN_14
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_3
	ti	TI_0
	cell_ident	CELL_IDENT_1
	loc_area_ident	LOC_AREA_IDENT_1
	ctrl_chan_desc	CTRL_CHAN_DESC_1
	cell_opt_bcch	CELL_OPT_BCCH_1
	cell_select	CELL_SELECT_1
	rach_ctrl	RACH_CTRL_1
	}	
(42)	MPH_UNITDATA_IND	
	arfcn	ARFCN_124
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_3
	ti	TI_0
	cell_ident	CELL_IDENT_1
	loc_area_ident	LOC_AREA_IDENT_1
	ctrl_chan_desc	CTRL_CHAN_DESC_1
	cell_opt_bcch	CELL_OPT_BCCH_1
	cell_select	CELL_SELECT_1
	rach_ctrl	RACH_CTRL_1
	}	

(43) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(44) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(45) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(46) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_1_14_124
gprs_sync	NOT_USED

(47) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(48) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(49) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(50) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_1_14_124
gprs_sync	NOT_USED

(51) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(52) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(53) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(54) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_1_14_124
gprs_sync	NOT_USED

(55) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(56) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(57) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(58) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_1_14_124
gprs_sync	NOT_USED

(59) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(60) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(61) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(62) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_1_14_124
gprs_sync	NOT_USED

(63) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(64) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(65) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(66) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_1_14_124
gprs_sync	NOT_USED

(67)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(68)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(69)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(70)	MPHC_NCELL_SYNC_REQ	
	radio_freq	ARFCN_14
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_VALID_TIMING_INFO_SB
(71)	MPHC_NCELL_SYNC_REQ	
	radio_freq	ARFCN_124
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_VALID_TIMING_INFO_SB
(72)	MPHC_NCELL_SYNC_REQ	
	radio_freq	ARFCN_1
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_VALID_TIMING_INFO_SB
(73)	MPH_MEASUREMENT_IND	
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NCELLS_1_14_124
	gprs_sync	NOT_USED

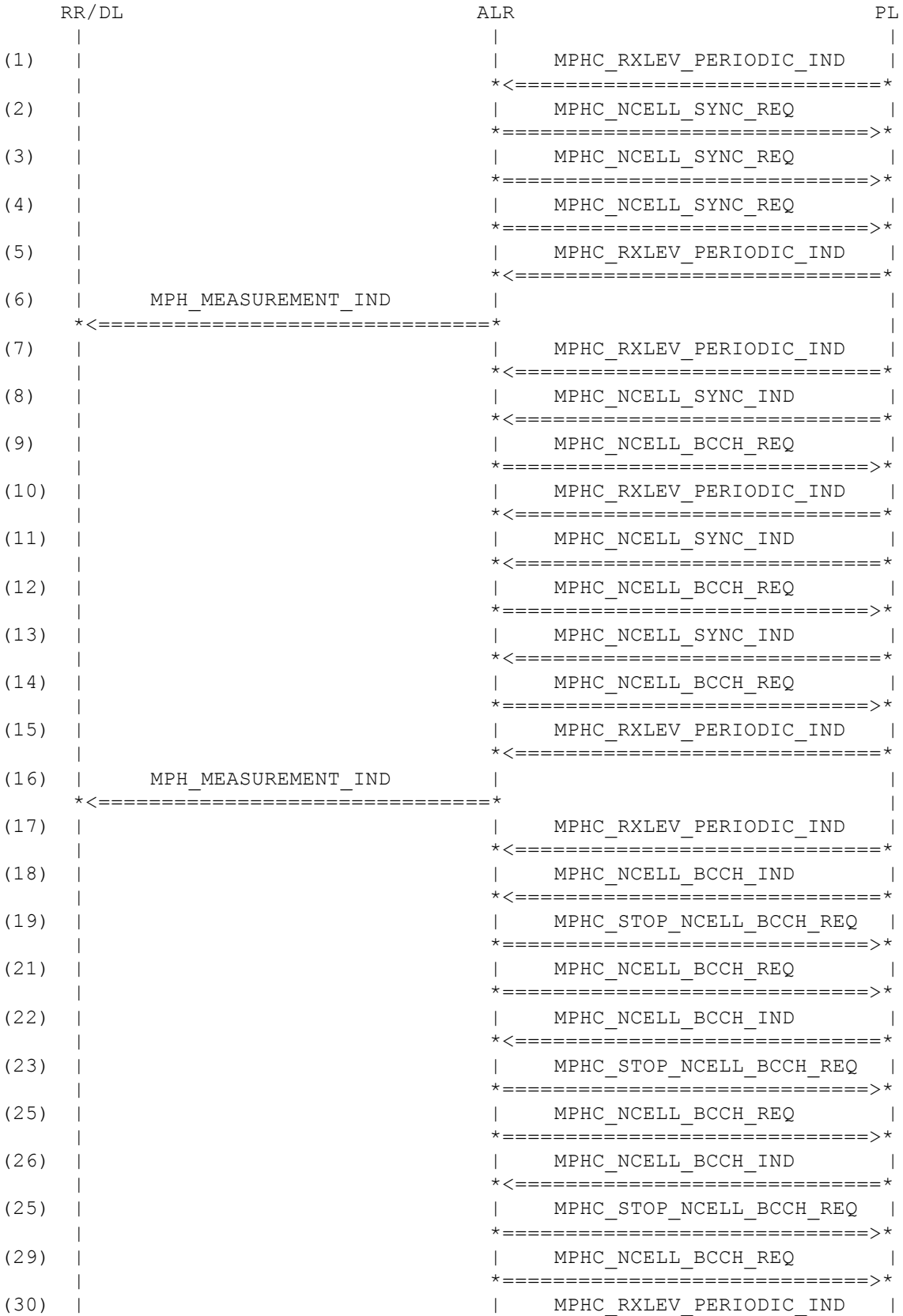
History:			
	24.09.99	MPA	Initial
	20.06.01	MSB	fn_offset corrected in (6)
	07.02.02	LG	changed value of ba_id

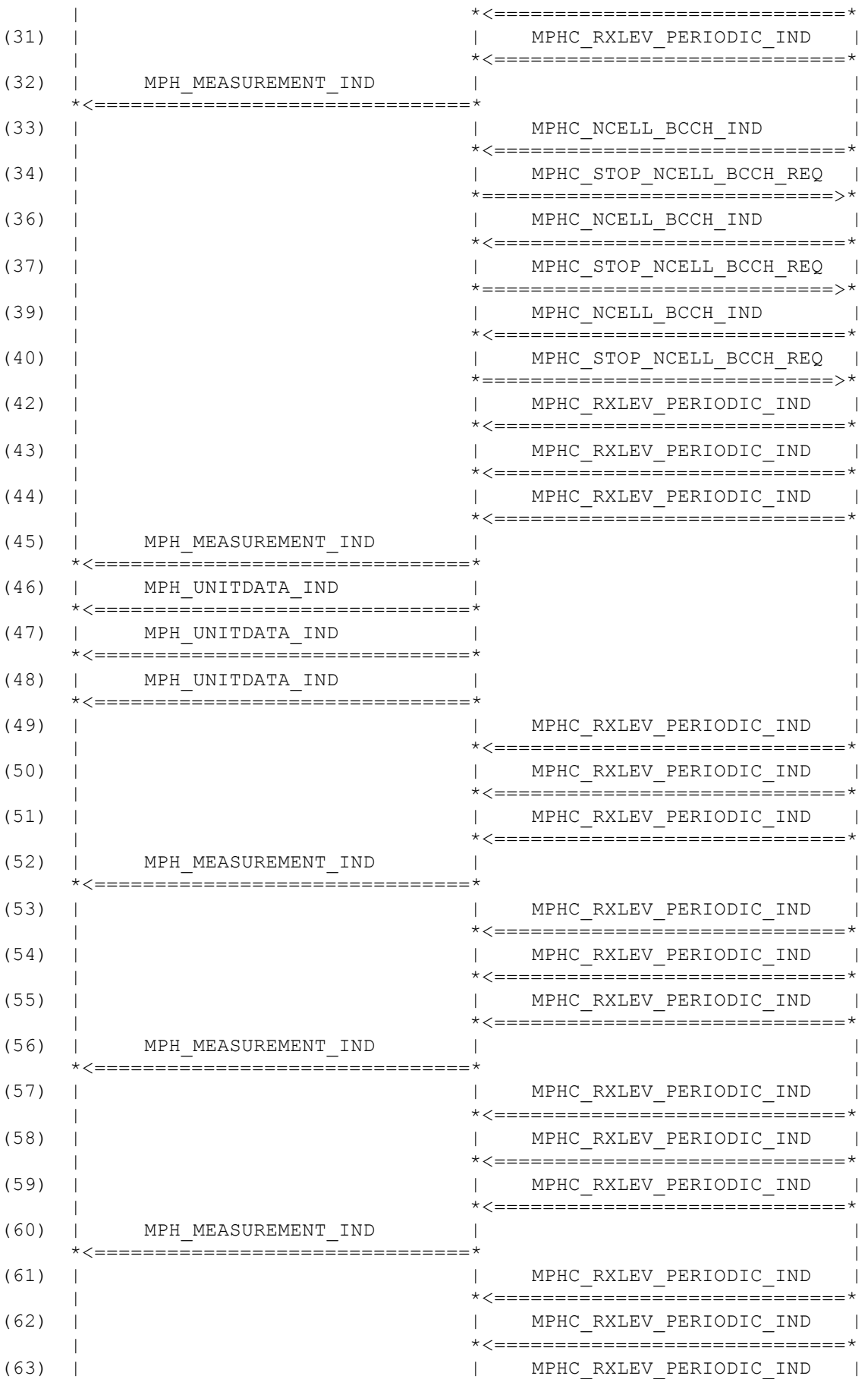
4.15.16 ALR906: Synchronisation to Neighbour Cells successful (read error and sys info 3)

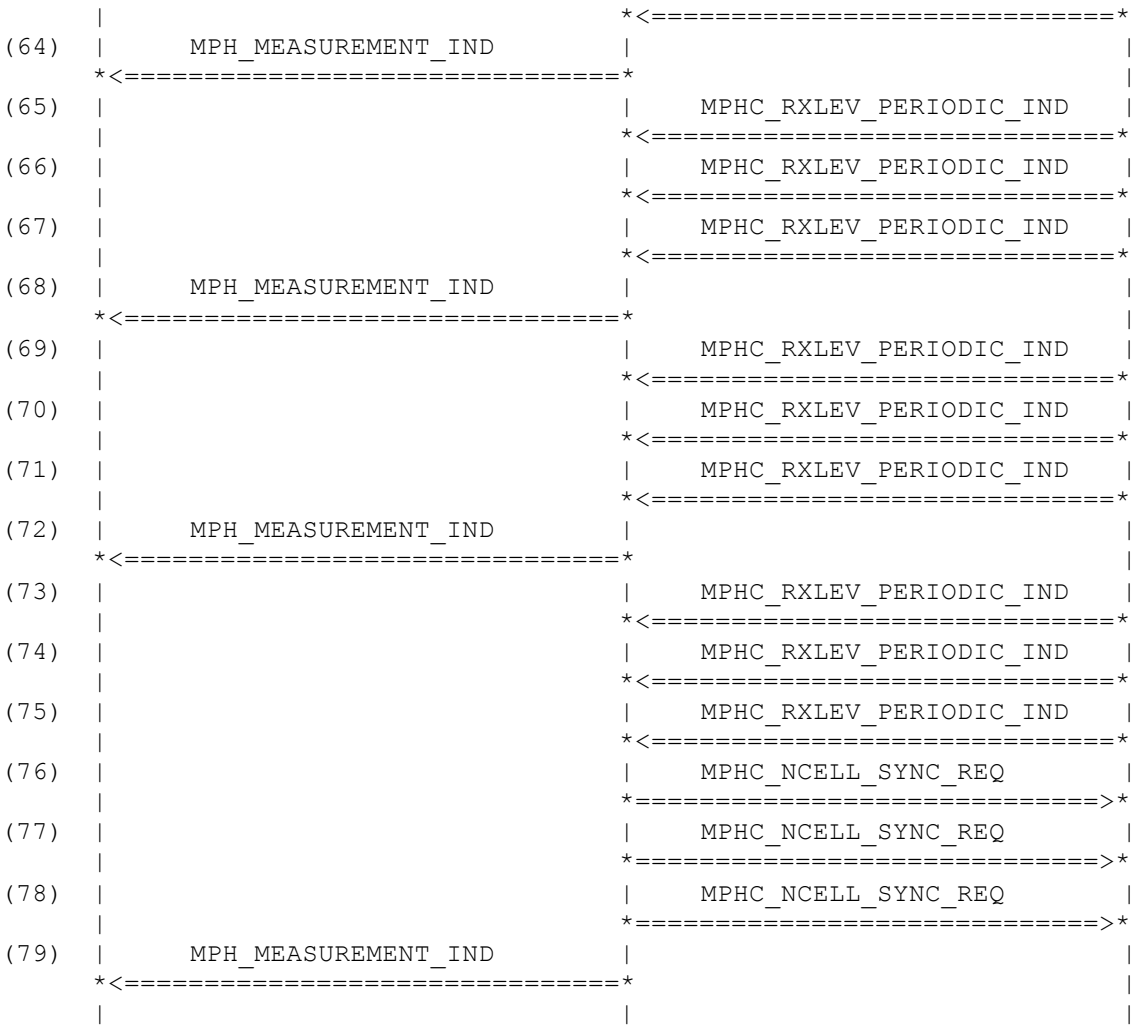
Description: The BA list contains the serving cell 23 and the neighbour cells 1, 14 and 124. The fieldstrength is 56 for channel 23, 12 for channel 1, 44 for channel 14 and 25 for channel 124 (all values in GSM range). The ranking for the neighbour cells is 14, 124 and

channel 1. Each report contains two fieldstrength values per channel. The multiframe period is set to 6. The first measurement report is send to RR after five reports from PL. Then after each three reports from PL a measurement report is send to RR.

Preamble: ALR046A




(31) MPHC_RXLEV_PERIODIC_IND
(32) MPH_MEASUREMENT_IND
(33) MPHC_NCELL_BCCH_IND
(34) MPHC_STOP_NCELL_BCCH_REQ
(36) MPHC_NCELL_BCCH_IND
(37) MPHC_STOP_NCELL_BCCH_REQ
(39) MPHC_NCELL_BCCH_IND
(40) MPHC_STOP_NCELL_BCCH_REQ
(42) MPHC_RXLEV_PERIODIC_IND
(43) MPHC_RXLEV_PERIODIC_IND
(44) MPHC_RXLEV_PERIODIC_IND
(45) MPH_MEASUREMENT_IND
(46) MPH_UNITDATA_IND
(47) MPH_UNITDATA_IND
(48) MPH_UNITDATA_IND
(49) MPHC_RXLEV_PERIODIC_IND
(50) MPHC_RXLEV_PERIODIC_IND
(51) MPHC_RXLEV_PERIODIC_IND
(52) MPH_MEASUREMENT_IND
(53) MPHC_RXLEV_PERIODIC_IND
(54) MPHC_RXLEV_PERIODIC_IND
(55) MPHC_RXLEV_PERIODIC_IND
(56) MPH_MEASUREMENT_IND
(57) MPHC_RXLEV_PERIODIC_IND
(58) MPHC_RXLEV_PERIODIC_IND
(59) MPHC_RXLEV_PERIODIC_IND
(60) MPH_MEASUREMENT_IND
(61) MPHC_RXLEV_PERIODIC_IND
(62) MPHC_RXLEV_PERIODIC_IND
(63) MPHC_RXLEV_PERIODIC_IND



Parametrization

	Primitive	Parameter	Value
(1)	MPHC_RXLEV_PERIODIC_IND		
		result	NCELL_RESULT_1
		nbr_of_carriers	CHANNELS_8
		s_rxlev	RXLEV_56
		ba_id	BA_ID_1
(2)	MPHC_NCELL_SYNC_REQ		
		radio_freq	ARFCN_14
		fn_offset	NOT_USED
		time_alignment	NOT_USED
		timing_validity	TV_INVALID_TIMING_INFO
(3)	MPHC_NCELL_SYNC_REQ		
		radio_freq	ARFCN_124
		fn_offset	NOT_USED
		time_alignment	NOT_USED
		timing_validity	TV_INVALID_TIMING_INFO
(4)	MPHC_NCELL_SYNC_REQ		
		radio_freq	ARFCN_1
		fn_offset	NOT_USED
		time_alignment	NOT_USED
		timing_validity	TV_INVALID_TIMING_INFO

(5)	MPHC_RXLEV_PERIODIC_IND		
		result	NCELL_RESULT_1
		nbr_of_carriers	CHANNELS_8
		s_rxlev	RXLEV_56
		ba_id	BA_ID_1
(6)	MPH_MEASUREMENT_IND		
		arfcn	ARFCN_23
		rx_lev_full	RXLEV_56
		rx_lev_sub	NOT_USED
		rx_qual_full	NOT_USED
		rx_qual_sub	NOT_USED
		dtx	NOT_USED
		otd	NOT_USED
		valid	VALID_REPORT
		fn_offset	FN_OFFSET_918
		ncells	NO_NCELLS
		gprs_sync	NOT_USED
(7)	MPHC_RXLEV_PERIODIC_IND		
		result	NCELL_RESULT_1
		nbr_of_carriers	CHANNELS_8
		s_rxlev	RXLEV_56
		ba_id	BA_ID_1
(8)	MPHC_NCELL_SYNC_IND		
		radio_freq	ARFCN_14
		sb_flag	SB_FOUND
		fn_offset	FN_OFFSET_14
		time_alignment	TIME_ALIGNMT_14
		bsic	BSIC_1
(9)	MPHC_NCELL_BCCH_REQ		
		radio_freq	ARFCN_14
		fn_offset	FN_OFFSET_14
		time_alignment	TIME_ALIGNMT_14
		tsc	BSIC_1
		bcch_blocks_required	NCELL_BCCH_SI_3_4
		gprs_prio	NOT_USED
(10)	MPHC_RXLEV_PERIODIC_IND		
		result	NCELL_RESULT_1
		nbr_of_carriers	CHANNELS_8
		s_rxlev	RXLEV_56
		ba_id	BA_ID_1
(11)	MPHC_NCELL_SYNC_IND		
		radio_freq	ARFCN_124
		sb_flag	SB_FOUND
		fn_offset	FN_OFFSET_124
		time_alignment	TIME_ALIGNMT_124
		bsic	BSIC_1
(12)	MPHC_NCELL_BCCH_REQ		
		radio_freq	ARFCN_124
		fn_offset	FN_OFFSET_124
		time_alignment	TIME_ALIGNMT_124
		tsc	BSIC_1
		bcch_blocks_required	NCELL_BCCH_SI_3_4
		gprs_prio	NOT_USED
(13)	MPHC_NCELL_SYNC_IND		
		radio_freq	ARFCN_1

	sb_flag	SB_FOUND
	fn_offset	FN_OFFSET_1
	time_alignment	TIME_ALIGNMT_1
	bsic	BSIC_1
(14)	MPHC_NCELL_BCCH_REQ	
	radio_freq	ARFCN_1
	fn_offset	FN_OFFSET_1
	time_alignment	TIME_ALIGNMT_1
	tsc	BSIC_1
	bcch_blocks_required	NCELL_BCCH_SI_3_4
	gprs_prio	NOT_USED
(15)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(16)	MPH_MEASUREMENT_IND	
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NO_NCELLS
	gprs_sync	NOT_USED
(17)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(18)	MPHC_NCELL_BCCH_IND	
	radio_freq	ARFCN_14
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	INVALID_BLOCK
	l2_frame	L2_NO_CONTENT
	tc	TC_2
	fn	FN_OFFSET_14
(19)	MPHC_STOP_NCELL_BCCH_REQ	
	radio_freq_array_size	STOP_SIZE_1
	radio_freq_array	STOP_ARRAY_14
(20)	MPHC_NCELL_BCCH_REQ	
	radio_freq	ARFCN_14
	fn_offset	FN_OFFSET_14
	time_alignment	TIME_ALIGNMT_14
	tsc	BSIC_1
	bcch_blocks_required	NCELL_BCCH_SI_3_4
	gprs_prio	NOT_USED
(21)	MPHC_NCELL_BCCH_IND	
	radio_freq	ARFCN_1
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	INVALID_BLOCK
	l2_frame	L2_NO_CONTENT

	tc	TC_2
	fn	FN_OFFSET_1
(22)	MPHC_STOP_NCELL_BCCH_REQ	
	radio_freq_array_size	STOP_SIZE_1
	radio_freq_array	STOP_ARRAY_1
(23)	MPHC_NCELL_BCCH_REQ	
	radio_freq	ARFCN_1
	fn_offset	FN_OFFSET_1
	time_alignment	TIME_ALIGNMT_1
	tsc	BSIC_1
	bcch_blocks_required	NCELL_BCCH_SI_3_4
	gprs_prio	NOT_USED
(24)	MPHC_NCELL_BCCH_IND	
	radio_freq	ARFCN_124
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	INVALID_BLOCK
	l2_frame	L2_NO_CONTENT
	tc	TC_2
	fn	FN_OFFSET_124
(25)	MPHC_STOP_NCELL_BCCH_REQ	
	radio_freq_array_size	STOP_SIZE_1
	radio_freq_array	STOP_ARRAY_124
(26)	MPHC_NCELL_BCCH_REQ	
	radio_freq	ARFCN_124
	fn_offset	FN_OFFSET_124
	time_alignment	TIME_ALIGNMT_124
	tsc	BSIC_1
	bcch_blocks_required	NCELL_BCCH_SI_3_4
	gprs_prio	NOT_USED
(27)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(28)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(29)	MPH_MEASUREMENT_IND	
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NO_NCELLS
	gprs_sync	NOT_USED
(30)	MPHC_NCELL_BCCH_IND	
	radio_freq	ARFCN_14
	l2_channel	L2_CHANNEL_NBCCH

	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_3
	tc	TC_2
	fn	FN_OFFSET_14
(31)	MPHC_STOP_NCELL_BCCH_REQ	
	radio_freq_array_size	STOP_SIZE_1
	radio_freq_array	STOP_ARRAY_14
(32)	MPHC_NCELL_BCCH_IND	
	radio_freq	ARFCN_1
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_3
	tc	TC_2
	fn	FN_OFFSET_1
(33)	MPHC_STOP_NCELL_BCCH_REQ	
	radio_freq_array_size	STOP_SIZE_1
	radio_freq_array	STOP_ARRAY_1
(34)	MPHC_NCELL_BCCH_IND	
	radio_freq	ARFCN_124
	l2_channel	L2_CHANNEL_NBCCH
	error_flag	VALID_BLOCK
	l2_frame	L2_SYS_INFO_3
	tc	TC_2
	fn	FN_OFFSET_124
(35)	MPHC_STOP_NCELL_BCCH_REQ	
	radio_freq_array_size	STOP_SIZE_1
	radio_freq_array	STOP_ARRAY_124
(36)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(37)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(38)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(39)	MPH_MEASUREMENT_IND	
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NCELLS_1_14_124
	gprs_sync	NOT_USED

(40)

MPH_UNITDATA_IND	
arfcn	ARFCN_1
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(41)

MPH_UNITDATA_IND	
arfcn	ARFCN_14
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(42)

MPH_UNITDATA_IND	
arfcn	ARFCN_124
fn	NOT_USED
sdu	
{	
component	RR
direction	DOWNLINK
pd	D_SYS_INFO_3
ti	TI_0
cell_ident	CELL_IDENT_1
loc_area_ident	LOC_AREA_IDENT_1
ctrl_chan_desc	CTRL_CHAN_DESC_1
cell_opt_bcch	CELL_OPT_BCCH_1
cell_select	CELL_SELECT_1
rach_ctrl	RACH_CTRL_1
}	

(43)

MPHC_RXLEV_PERIODIC_IND	
result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(44)

MPHC_RXLEV_PERIODIC_IND	
result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8

	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(45)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(46)	MPH_MEASUREMENT_IND	
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NCELLS_1_14_124
	gprs_sync	NOT_USED
(47)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(48)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(49)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(50)	MPH_MEASUREMENT_IND	
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NCELLS_1_14_124
	gprs_sync	NOT_USED
(51)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(52)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8

	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(53)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(54)	MPH_MEASUREMENT_IND	
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NCELLS_1_14_124
	gprs_sync	NOT_USED
(55)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(56)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(57)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(58)	MPH_MEASUREMENT_IND	
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NCELLS_1_14_124
	gprs_sync	NOT_USED
(59)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(60)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8

	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(61)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(62)	MPH_MEASUREMENT_IND	
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NCELLS_1_14_124
	gprs_sync	NOT_USED
(63)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(64)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(65)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(66)	MPH_MEASUREMENT_IND	
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NCELLS_1_14_124
	gprs_sync	NOT_USED
(67)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(68)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8

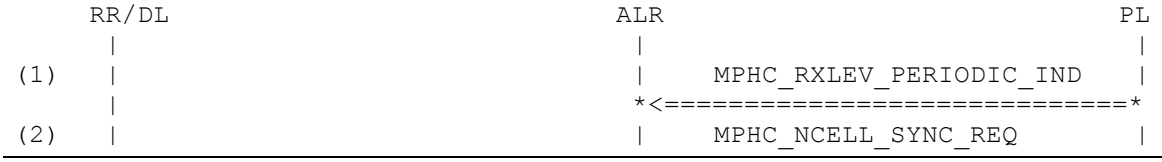
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(69)	MPHC_RXLEV_PERIODIC_IND	
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(70)	MPHC_NCELL_SYNC_REQ	
	radio_freq	ARFCN_14
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_VALID_TIMING_INFO_SB
(71)	MPHC_NCELL_SYNC_REQ	
	radio_freq	ARFCN_124
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_VALID_TIMING_INFO_SB
(72)	MPHC_NCELL_SYNC_REQ	
	radio_freq	ARFCN_1
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_VALID_TIMING_INFO_SB
(73)	MPH_MEASUREMENT_IND	
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NCELLS_1_14_124
	gprs_sync	NOT_USED

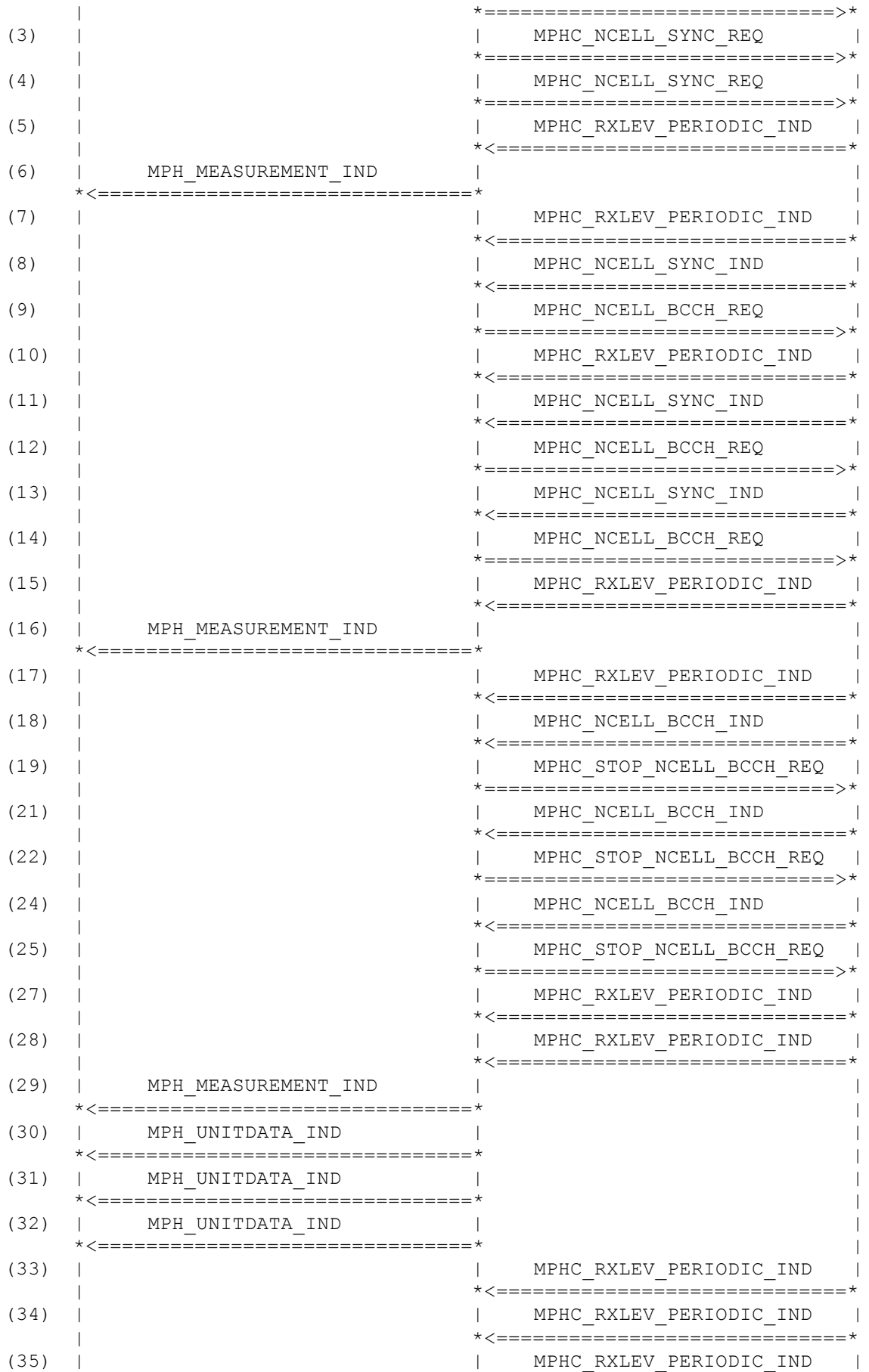
History:	24.09.99	MPA	Initial
	20.06.01	MSB	fn_offset corrected in (6)
	07.02.02	LG	changed value of ba_id

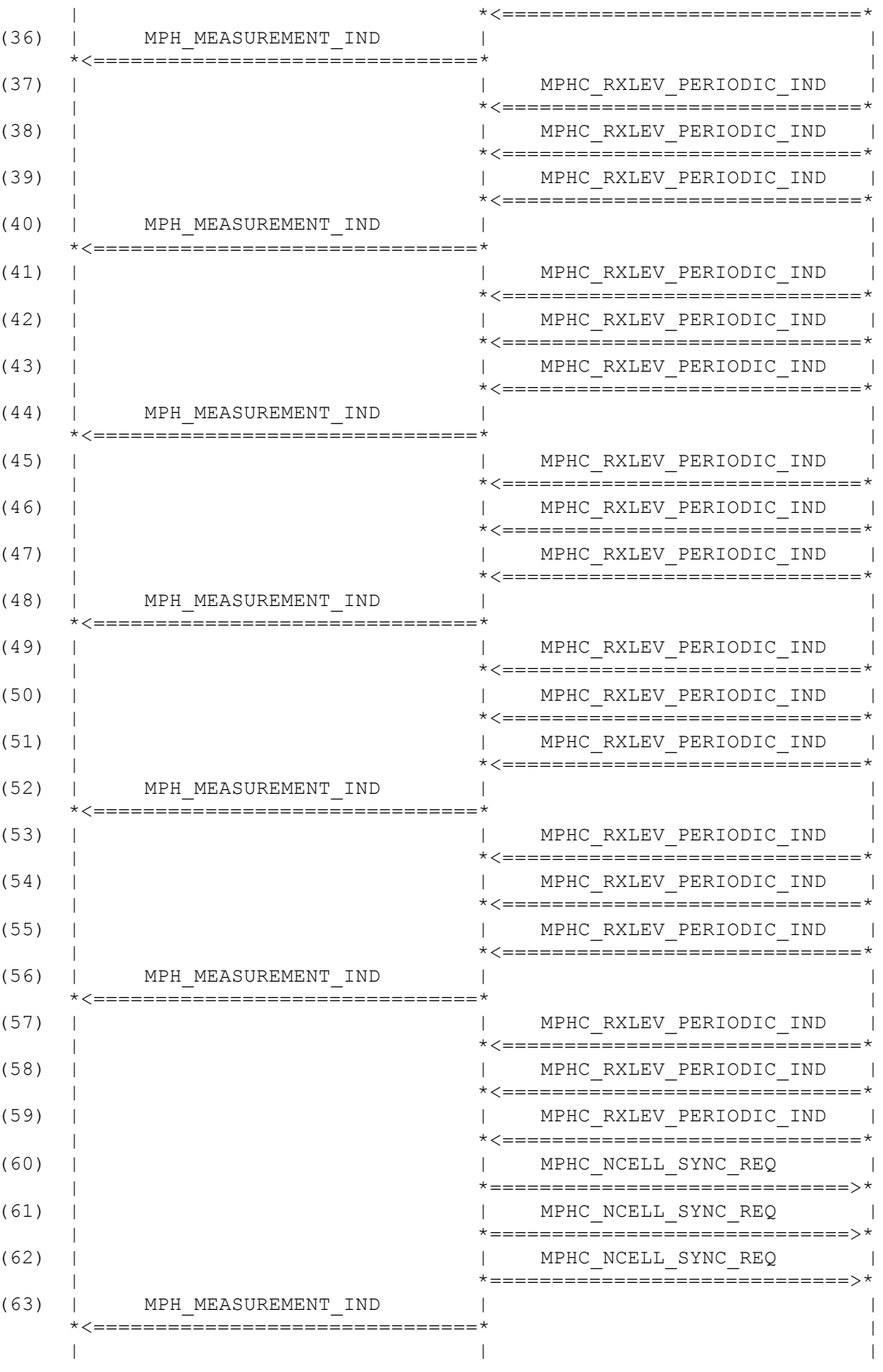
4.15.17 ALR907: Synchronisation to Neighbour Cells successful (sys info 3)

Description: The BA list contains the serving cell 23 and the neighbour cells 1, 14 and 124. The fieldstrength is 56 for channel 23, 12 for channel 1, 44 for channel 14 and 25 for channel 124 (all values in GSM range). The ranking for the neighbour cells is 14, 124 and channel 1. Each reports contains two fieldstrength values per channel. The multiframe period is set to 6. The first measurement report is send to RR after five reports from PL. Then after each three reports from PL a measurement report is send to RR.

Preamble: ALR046A




(3) MPHC_NCELL_SYNC_REQ
(4) MPHC_NCELL_SYNC_REQ
(5) MPHC_RXLEV_PERIODIC_IND
(6) MPH_MEASUREMENT_IND
(7) MPHC_RXLEV_PERIODIC_IND
(8) MPHC_NCELL_SYNC_IND
(9) MPHC_NCELL_BCCH_REQ
(10) MPHC_RXLEV_PERIODIC_IND
(11) MPHC_NCELL_SYNC_IND
(12) MPHC_NCELL_BCCH_REQ
(13) MPHC_NCELL_SYNC_IND
(14) MPHC_NCELL_BCCH_REQ
(15) MPHC_RXLEV_PERIODIC_IND
(16) MPH_MEASUREMENT_IND
(17) MPHC_RXLEV_PERIODIC_IND
(18) MPHC_NCELL_BCCH_IND
(19) MPHC_STOP_NCELL_BCCH_REQ
(21) MPHC_NCELL_BCCH_IND
(22) MPHC_STOP_NCELL_BCCH_REQ
(24) MPHC_NCELL_BCCH_IND
(25) MPHC_STOP_NCELL_BCCH_REQ
(27) MPHC_RXLEV_PERIODIC_IND
(28) MPHC_RXLEV_PERIODIC_IND
(29) MPH_MEASUREMENT_IND
(30) MPH_UNITDATA_IND
(31) MPH_UNITDATA_IND
(32) MPH_UNITDATA_IND
(33) MPHC_RXLEV_PERIODIC_IND
(34) MPHC_RXLEV_PERIODIC_IND
(35) MPHC_RXLEV_PERIODIC_IND



Parametrization

	Primitive	Parameter	Value
(1)	MPHC_RXLEV_PERIODIC_IND		
		result	NCELL_RESULT_1
		nbr_of_carriers	CHANNELS_8
		s_rxlev	RXLEV_56
		ba_id	BA_ID_1
(2)	MPHC_NCELL_SYNC_REQ		
		radio_freq	ARFCN_14
		fn_offset	NOT_USED
		time_alignment	NOT_USED
		timing_validity	TV_INVALID_TIMING_INFO
(3)	MPHC_NCELL_SYNC_REQ		
		radio_freq	ARFCN_124
		fn_offset	NOT_USED
		time_alignment	NOT_USED
		timing_validity	TV_INVALID_TIMING_INFO
(4)	MPHC_NCELL_SYNC_REQ		
		radio_freq	ARFCN_1
		fn_offset	NOT_USED
		time_alignment	NOT_USED
		timing_validity	TV_INVALID_TIMING_INFO
(5)	MPHC_RXLEV_PERIODIC_IND		
		result	NCELL_RESULT_1
		nbr_of_carriers	CHANNELS_8
		s_rxlev	RXLEV_56
		ba_id	BA_ID_1
(6)	MPH_MEASUREMENT_IND		
		arfcn	ARFCN_23
		rx_lev_full	RXLEV_56
		rx_lev_sub	NOT_USED
		rx_qual_full	NOT_USED
		rx_qual_sub	NOT_USED
		dtx	NOT_USED
		otd	NOT_USED
		valid	VALID_REPORT
		fn_offset	FN_OFFSET_918
		ncells	NO_NCELLS
		gprs_sync	NOT_USED
(7)	MPHC_RXLEV_PERIODIC_IND		
		result	NCELL_RESULT_1
		nbr_of_carriers	CHANNELS_8
		s_rxlev	RXLEV_56
		ba_id	BA_ID_1
(8)	MPHC_NCELL_SYNC_IND		
		radio_freq	ARFCN_14
		sb_flag	SB_FOUND
		fn_offset	FN_OFFSET_14
		time_alignment	TIME_ALIGNMT_14
		bsic	BSIC_1
(9)	MPHC_NCELL_BCCH_REQ		
		radio_freq	ARFCN_14
		fn_offset	FN_OFFSET_14
		time_alignment	TIME_ALIGNMT_14
		tsc	BSIC_1

	bcch_blocks_required	NCELL_BCCH_SI_3_4
	gprs_prio	NOT_USED
(10) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(11) MPHC_NCELL_SYNC_IND		
	radio_freq	ARFCN_124
	sb_flag	SB_FOUND
	fn_offset	FN_OFFSET_124
	time_alignment	TIME_ALIGNMT_124
	bsic	BSIC_1
(12) MPHC_NCELL_BCCH_REQ		
	radio_freq	ARFCN_124
	fn_offset	FN_OFFSET_124
	time_alignment	TIME_ALIGNMT_124
	tsc	BSIC_1
	bcch_blocks_required	NCELL_BCCH_SI_3_4
	gprs_prio	NOT_USED
(13) MPHC_NCELL_SYNC_IND		
	radio_freq	ARFCN_1
	sb_flag	SB_FOUND
	fn_offset	FN_OFFSET_1
	time_alignment	TIME_ALIGNMT_1
	bsic	BSIC_1
(14) MPHC_NCELL_BCCH_REQ		
	radio_freq	ARFCN_1
	fn_offset	FN_OFFSET_1
	time_alignment	TIME_ALIGNMT_1
	tsc	BSIC_1
	bcch_blocks_required	NCELL_BCCH_SI_3_4
	gprs_prio	NOT_USED
(15) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(16) MPH_MEASUREMENT_IND		
	arfcn	ARFCN_23
	rx_lev_full	RXLEV_56
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	VALID_REPORT
	fn_offset	FN_OFFSET_306
	ncells	NO_NCELLS
	gprs_sync	NOT_USED
(17) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1

(18) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_14
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_14

(19) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	STOP_SIZE_1
radio_freq_array	STOP_ARRAY_14

(20) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_1
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_1

(21) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	STOP_SIZE_1
radio_freq_array	STOP_ARRAY_1

(22) MPHC_NCELL_BCCH_IND

radio_freq	ARFCN_124
l2_channel	L2_CHANNEL_NBCCH
error_flag	VALID_BLOCK
l2_frame	L2_SYS_INFO_3
tc	TC_2
fn	FN_OFFSET_124

(23) MPHC_STOP_NCELL_BCCH_REQ

radio_freq_array_size	STOP_SIZE_1
radio_freq_array	STOP_ARRAY_124

(24) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(25) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(26) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_1_14_124
gprs_sync	NOT_USED

(27) MPH_UNITDATA_IND

arfcn	ARFCN_1

	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_3
	ti	TI_0
	cell_ident	CELL_IDENT_1
	loc_area_ident	LOC_AREA_IDENT_1
	ctrl_chan_desc	CTRL_CHAN_DESC_1
	cell_opt_bcch	CELL_OPT_BCCH_1
	cell_select	CELL_SELECT_1
	rach_ctrl	RACH_CTRL_1
	}	
(28) MPH_UNITDATA_IND		
	arfcn	ARFCN_14
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_3
	ti	TI_0
	cell_ident	CELL_IDENT_1
	loc_area_ident	LOC_AREA_IDENT_1
	ctrl_chan_desc	CTRL_CHAN_DESC_1
	cell_opt_bcch	CELL_OPT_BCCH_1
	cell_select	CELL_SELECT_1
	rach_ctrl	RACH_CTRL_1
	}	
(29) MPH_UNITDATA_IND		
	arfcn	ARFCN_124
	fn	NOT_USED
	sdu	
	{	
	component	RR
	direction	DOWNLINK
	pd	D_SYS_INFO_3
	ti	TI_0
	cell_ident	CELL_IDENT_1
	loc_area_ident	LOC_AREA_IDENT_1
	ctrl_chan_desc	CTRL_CHAN_DESC_1
	cell_opt_bcch	CELL_OPT_BCCH_1
	cell_select	CELL_SELECT_1
	rach_ctrl	RACH_CTRL_1
	}	
(30) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1
(31) MPHC_RXLEV_PERIODIC_IND		
	result	NCELL_RESULT_1
	nbr_of_carriers	CHANNELS_8
	s_rxlev	RXLEV_56
	ba_id	BA_ID_1

(32) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(33) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_1_14_124
gprs_sync	NOT_USED

(34) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(35) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(36) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(37) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_1_14_124
gprs_sync	NOT_USED

(38) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(39) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(40) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(41) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_1_14_124
gprs_sync	NOT_USED

(42) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(43) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(44) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(45) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_1_14_124
gprs_sync	NOT_USED

(46) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(47) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(48) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(49) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_1_14_124
gprs_sync	NOT_USED

(50) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(51) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(52) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(53) MPH_MEASUREMENT_IND

arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_1_14_124
gprs_sync	NOT_USED

(54) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(55) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(56) MPHC_RXLEV_PERIODIC_IND

result	NCELL_RESULT_1
nbr_of_carriers	CHANNELS_8
s_rxlev	RXLEV_56
ba_id	BA_ID_1

(57) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_14
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_VALID_TIMING_INFO_SB

(58) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_124
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_VALID_TIMING_INFO_SB

(59) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_1
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_VALID_TIMING_INFO_SB

(60) MPH_MEASUREMENT_IND

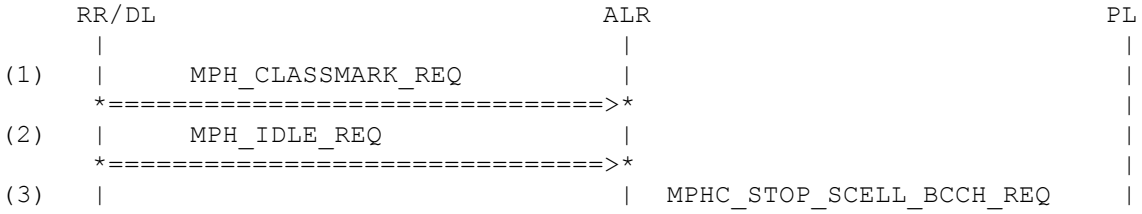
arfcn	ARFCN_23
rx_lev_full	RXLEV_56
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	VALID_REPORT
fn_offset	FN_OFFSET_306
ncells	NCELLS_1_14_124
gprs_sync	NOT_USED

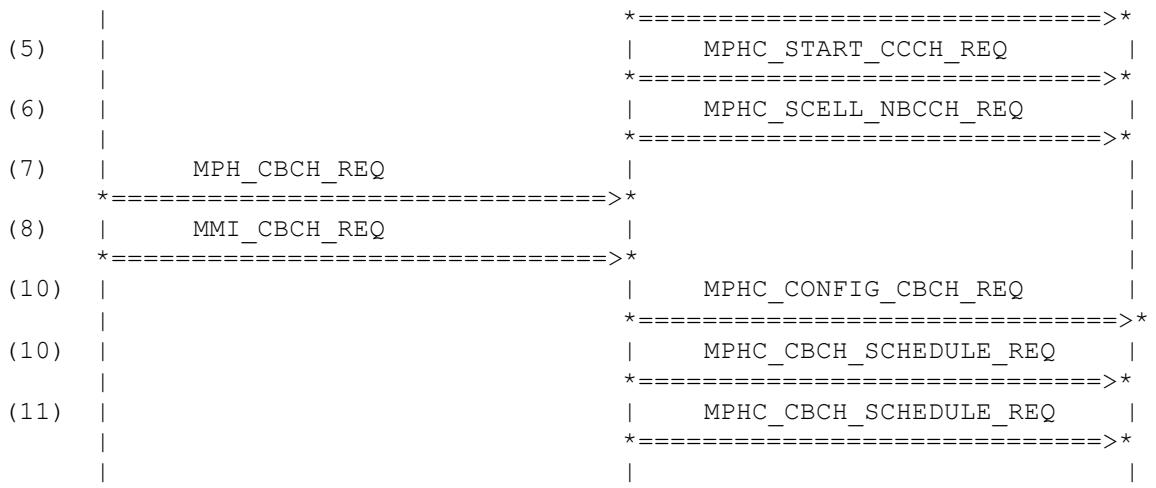
History:			
	24.09.99	MPA	Initial
	20.06.01	MSB	fn_offset corrected in (16)
	07.02.02	LG	changed value of ba_id

4.16 Short Message Cell Broadcast

4.16.1 ALR800: Configuration CBCH followed by MMI Request

Description: The CBCH channel is configured. Then MMI requests reading of CBCH for the message identifier 3, 7 and 11 to 13.
Preamble: ALR006
Variants: <A>..<B>





Parametrization

Primitive	Parameter	Value
(1) MPH_CLASSMARK_REQ		
	classmark	CLASS_GSM_900
(2) MPH_IDLE_REQ		
	mod	MODE_CELL_SELECTION
	arfcn	ARFCN_14
	ext_bcch	NOT_USED
	comb_ccch	COMB_CCCH_NOT_COMB
	tn	TN_0
	dlt	DLT_10
	pg	PG_20
	bs_ag_blocks_res	BS_AG_BLKS_RES_3
	bs_pa_mfrms	BS_PA_MFRMS_6
	power	POWER_12
	ncc_permitted	NOT_PRESENT_8BIT
	reorg_only	NOT_USED
(3) MPHC_STOP_SCELL_BCCH_REQ		
	param	NOT_USED
(4) MPHC_START_CCCH_REQ		
	bs_pa_mfrms	BS_PA_MFRMS_8
	bs_ag_blks_res	BS_AG_BLKS_RES_3
	bcch_combined	COMB_CCCH_NOT_COMB
	ccch_group	CCCH_GROUP_0
	page_group	PG_20
	page_block_index	PBI_2
	page_mode	PGM_REORG
(5) MPHC_SCELL_NBCCH_REQ		
	schedule_array_size	SCHED_SIZE_1
	schedule_array	NOT_USED
(6) MPH_CBCH_REQ		
<A>	cbch	CBCH_DESCRIPTION_4
<B>	cbch	CBCH_DESCRIPTION_8
(7) MMI_CBCH_REQ		
	msg_id	MSG_ID_3_7_11_TO_13
	dcs_id	DCS_ID_EMPTY
	modus	CBCH_ACCEPT

(8) MPHC_CONFIG_CBCH_REQ

<A>	cbch_desc	CHANNEL_DESC_CBCH_4
<B>	cbch_desc	CHANNEL_DESC_CBCH_8
	cbch_freq_list	FREQ_LIST

(9) MPHC_CBCH_SCHEDULE_REQ

	cbch_select	CBCH_READ_NORM
	schedule_length	SCHED_LEN_0
	first_blocks_0	NOT_USED
	first_blocks_1	NOT_USED

(10) MPHC_CBCH_SCHEDULE_REQ

	cbch_select	CBCH_READ_EXT
	schedule_length	SCHED_LEN_0
	first_blocks_0	NOT_USED
	first_blocks_1	NOT_USED

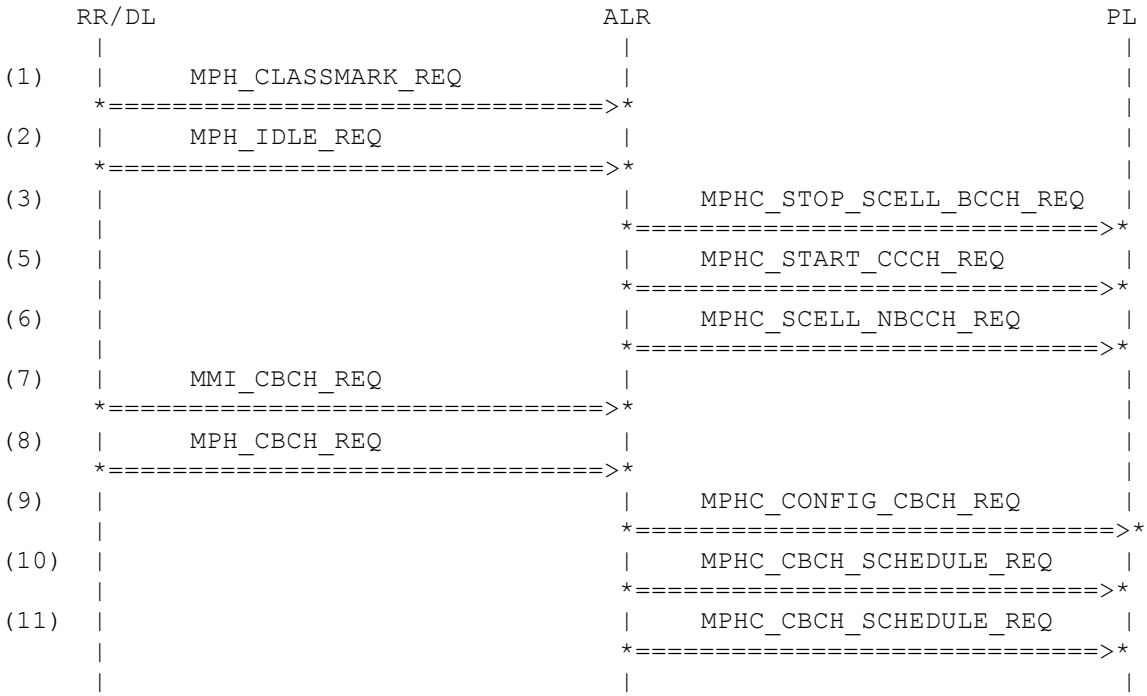
History:	10.01.00	MPA	Initial
	12.07.00	DG	MPH_CLASSMARK_REQ: class changed into classmark (Forum G23M / No 0057)

4.16.2 ALR801: MMI Request followed by Configuration of CBCH

Description: MMI requests reading of CBCH for the message identifier 3, 7 and 11 to 13. Then the CBCH channel is configured and reading of CBCH starts.

Preamble: ALR006

Variants: <A>..<C>



Parametrization

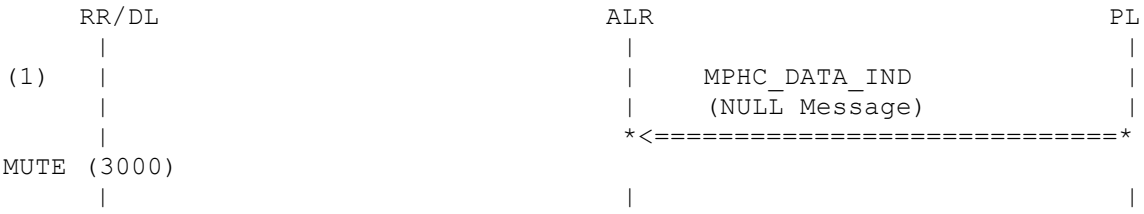
Primitive	Parameter	Value
(2) MPH_CLASSMARK_REQ		
	classmark	CLASS_GSM_900
(3) MPH_IDLE_REQ		
	mod	MODE_CELL_SELECTION
	arfcn	ARFCN_14

	ext_bcch	NOT_USED
	comb_ccch	COMB_CCCH_NOT_COMB
	tn	TN_0
	dlt	DLT_10
	pg	PG_20
	bs_ag_blocks_res	BS_AG_BLKS_RES_3
	bs_pa_mfrms	BS_PA_MFRMS_6
	power	POWER_12
	ncc_permitted	NOT_PRESENT_8BIT
	reorg_only	NOT_USED
(4) MPHC_STOP_SCELL_BCCH_REQ		
	param	NOT_USED
(5) MPHC_START_CCCH_REQ		
	bs_pa_mfrms	BS_PA_MFRMS_8
	bs_ag_blks_res	BS_AG_BLKS_RES_3
	bcch_combined	COMB_CCCH_NOT_COMB
	ccch_group	CCCH_GROUP_0
	page_group	PG_20
	page_block_index	PBI_2
	page_mode	PGM_REORG
(6) MPHC_SCELL_NBCCH_REQ		
	schedule_array_size	SCHED_SIZE_1
	schedule_array	NOT_USED
(7) MMI_CBCH_REQ		
<A>	msg_id	MSG_ID_3_7_11_TO_13
<B>	msg_id	MSG_ID_3_7_11_TO_13
<C>	msg_id	MSG_ID_1_TO_20
	dcs_id	DCS_ID_EMPTY
	modus	CBCH_ACCEPT
(8) MPH_CBCH_REQ		
<A>	cbch	CBCH_DESCRIPTION_4
<B>	cbch	CBCH_DESCRIPTION_8
<C>	cbch	CBCH_DESCRIPTION_4
(9) MPHC_CONFIG_CBCH_REQ		
<A>	cbch_desc	CHANNEL_DESC_CBCH_4
<B>	cbch_desc	CHANNEL_DESC_CBCH_8
<C>	cbch_desc	CHANNEL_DESC_CBCH_4
	cbch_freq_list	FREQ_LIST
(10) MPHC_CBCH_SCHEDULE_REQ		
	cbch_select	CBCH_READ_NORM
	schedule_length	SCHED_LEN_0
	first_blocks_0	NOT_USED
	first_blocks_1	NOT_USED
(11) MPHC_CBCH_SCHEDULE_REQ		
	cbch_select	CBCH_READ_EXT
	schedule_length	SCHED_LEN_0
	first_blocks_0	NOT_USED
	first_blocks_1	NOT_USED

History:	13.1.00	MPA	Initial
	12.07.00	DG	MPH_CLASSMARK_REQ: class changed into classmark (Forum G23M / No 0057)

4.16.3 ALR802: Reception of NULL Message

Description: ALR receives a NULL message. No further reaction is expected.
Preamble: ALR801A



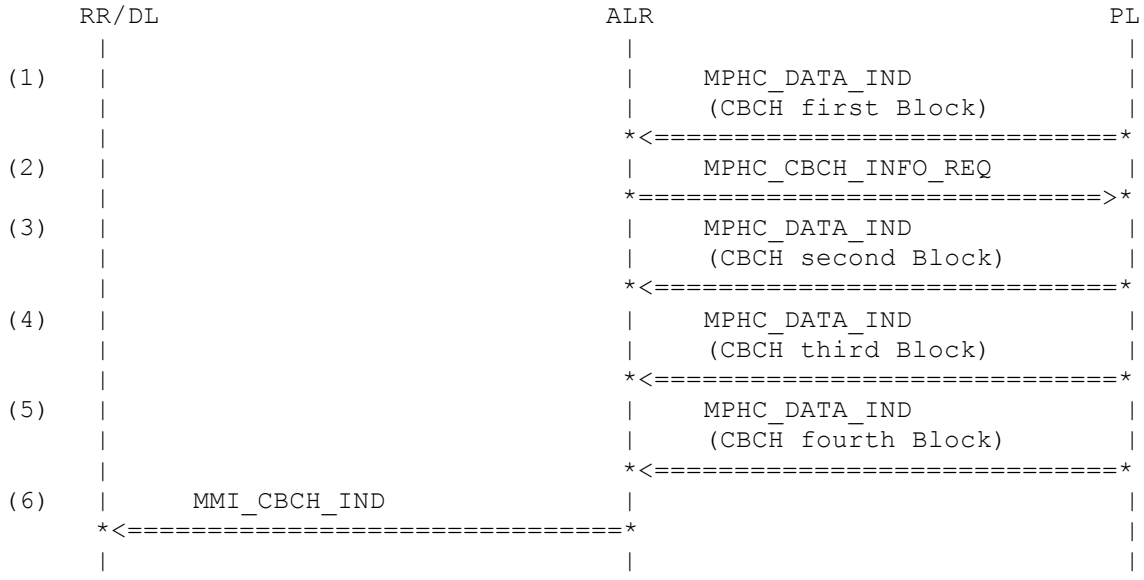
Parametrization

	Primitive	Parameter	Value
(1)	MPHC_DATA_IND		
		radio_freq	ARFCN_23
		l2_channel	L2_CHANNEL_CBCH
		error_flag	VALID_BLOCK
		l2_frame	NULL_MESSAGE
		tc	TC_0
		ccch_lev	NOT_USED
		fn	FN_OFFSET_0

History: 13.1.00 MPA Initial

4.16.4 ALR803: Reception of expected CBCH Message

Description: ALR receives an expected CBCH message. The content is forwarded to MMI.
Variant A: single message identifier (7)
Variant B: message identifier specified by range (11), lower boundary
Variant C: message identifier specified by range (12), middle of the range
Variant D: message identifier specified by range (13), upper boundary
Preamble: ALR801A
Variants: <A>..<D>



Parametrization

	Primitive	Parameter	Value
(1)	MPHC_DATA_IND		
		radio_freq	ARFCN_23
		l2_channel	L2_CHANNEL_CBCH

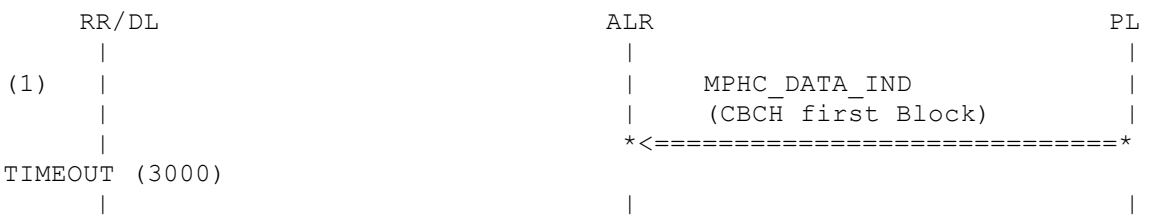
	error_flag	VALID_BLOCK
<A>	l2_frame	CBCH_1_7
<B>	l2_frame	CBCH_1_11
<C>	l2_frame	CBCH_1_12
<D>	l2_frame	CBCH_1_13
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(2) MPHC_CBCH_INFO_REQ		
	tb_bitmap	CBCH_NORM_BLOCK234
(3) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_CBCH
	error_flag	VALID_BLOCK
	l2_frame	CBCH_2
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(4) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_CBCH
	error_flag	VALID_BLOCK
	l2_frame	CBCH_3
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(5) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_CBCH
	error_flag	VALID_BLOCK
	l2_frame	CBCH_4
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(6) MMI_CBCH_IND		
<A>	cbch_msg	CBCH_MSG_7
<B>	cbch_msg	CBCH_MSG_11
<C>	cbch_msg	CBCH_MSG_12
<D>	cbch_msg	CBCH_MSG_13
	cbch_len	CBCH_LEN_88

History: 13.1.00 MPA Initial

4.16.5 ALR804: Reception of unexpected CBCH Message

Description: ALR receives an unexpected CBCH message. No reaction is expected after receiving the first block.

Preamble: ALR801A



Parametrization

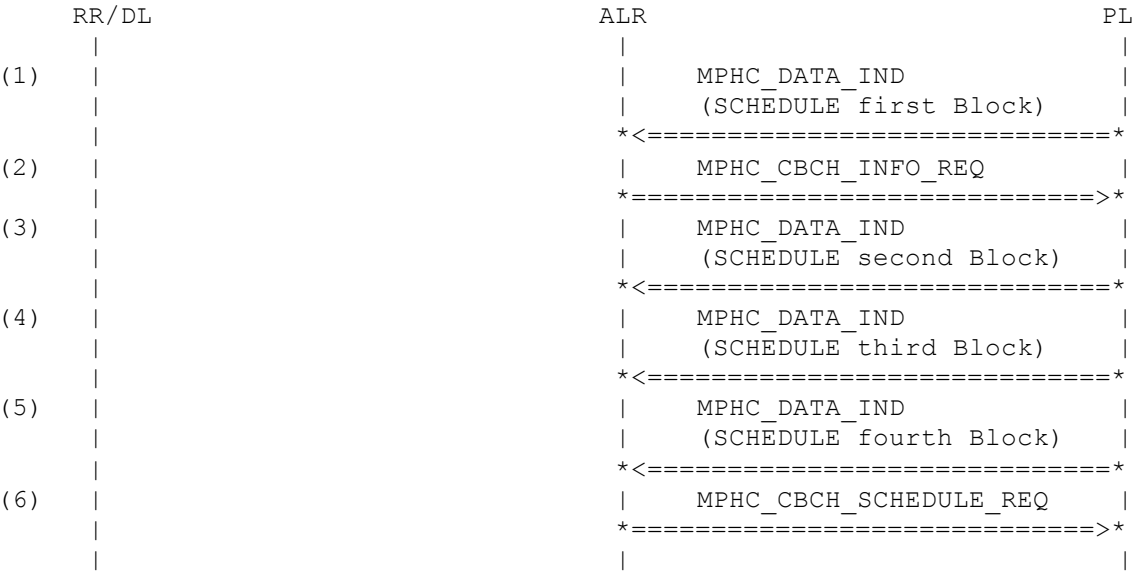
Primitive	Parameter	Value
(1) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_CBCH
	error_flag	VALID_BLOCK
	l2_frame	CBCH_1_8
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0

History: 13.1.00 MPA Initial

4.16.6 ALR805: Reception of unscheduled SCHEDULE Message

Description: ALR receives an unscheduled SCHEDULE message. The content is used for going into DRX mode.

Preamble: ALR801A



Parametrization

Primitive	Parameter	Value
(1) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_CBCH
	error_flag	VALID_BLOCK
	l2_frame	SCHEDULE_1_B
	tc	TC_0
	ccch_lev	NOT_USED
	fn	FN_OFFSET_0
(2) MPHC_CBCH_INFO_REQ		
	tb_bitmap	CBCH_NORM_BLOCK234
(3) MPHC_DATA_IND		
	radio_freq	ARFCN_23
	l2_channel	L2_CHANNEL_CBCH
	error_flag	VALID_BLOCK
	l2_frame	SCHEDULE_2
	tc	TC_0

	ccch_lev	NOT_USED
	fn	FN_OFFSET_0

(4) MPHC_DATA_IND

radio_freq	ARFCN_23
l2_channel	L2_CHANNEL_CBCH
error_flag	VALID_BLOCK
l2_frame	SCHEDULE_3
tc	TC_0
ccch_lev	NOT_USED
fn	FN_OFFSET_0

(5) MPHC_DATA_IND

radio_freq	ARFCN_23
l2_channel	L2_CHANNEL_CBCH
error_flag	VALID_BLOCK
l2_frame	SCHEDULE_4
tc	TC_0
ccch_lev	NOT_USED
fn	FN_OFFSET_0

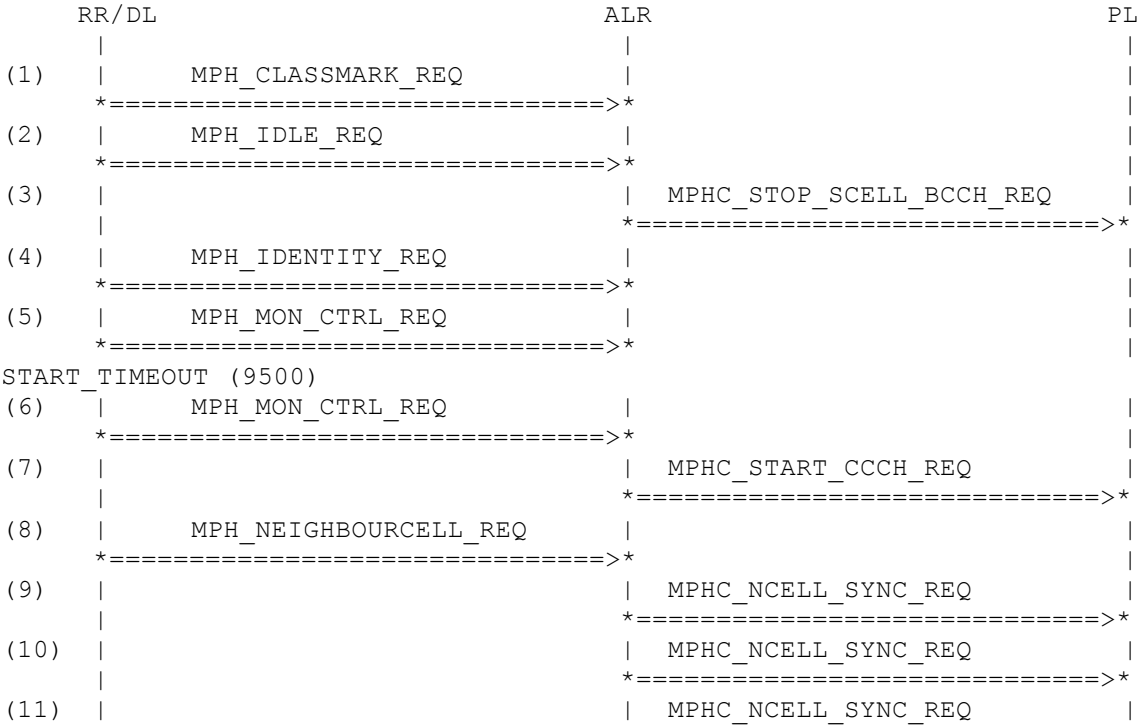
(6) MPHC_CBCH_SCHEDULE_REQ

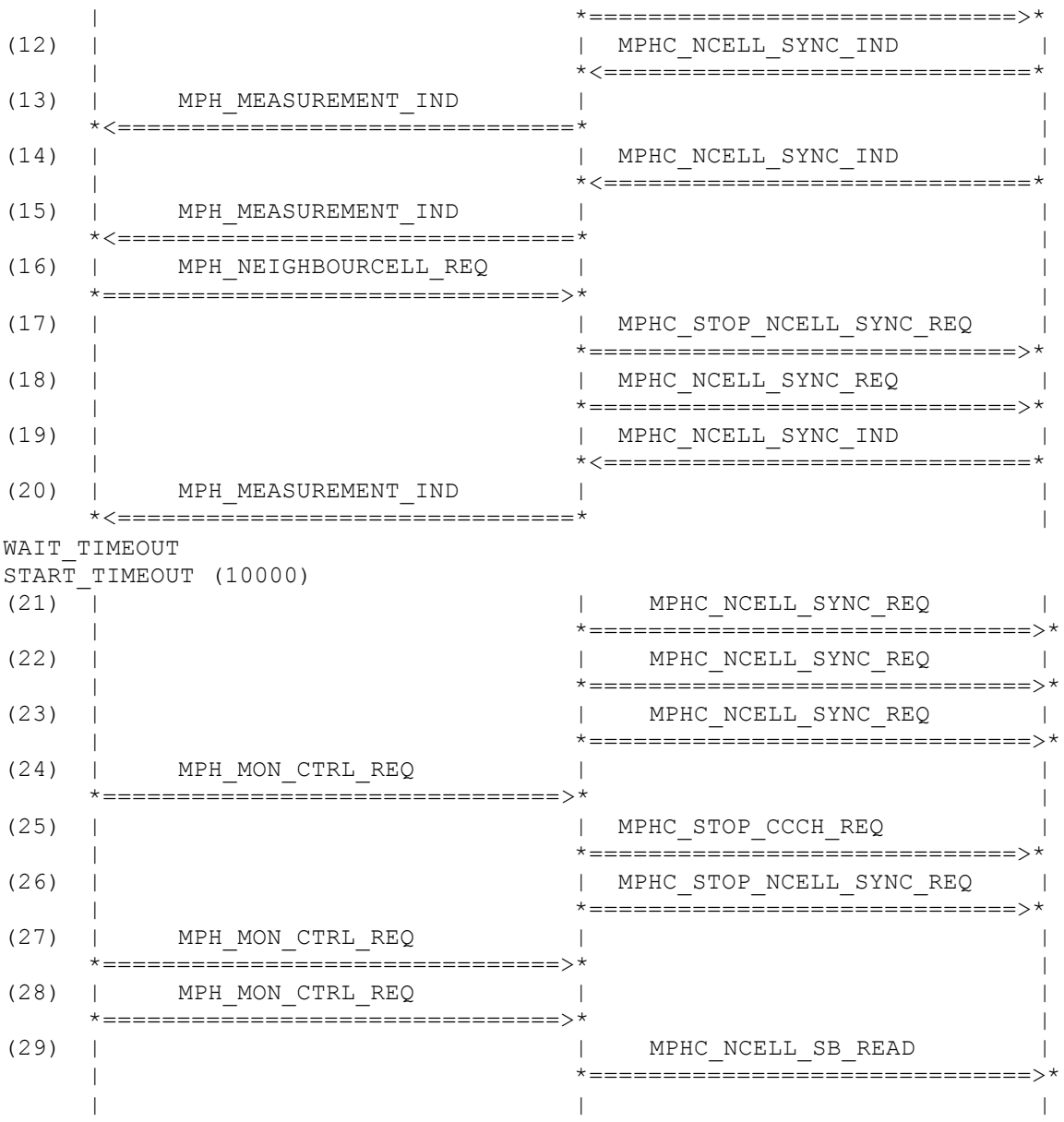
cbch_select	CBCH_READ_NORM
schedule_length	SCHED_LEN_5
first_blocks_0	FIRST_BLOCKS_0_B
first_blocks_1	FIRST_BLOCKS_1_B

History:	13.1.00	MPA	Initial

4.16.7 ALR806: RR select first channel

Description: RR selects the channel 23 after reading the BCCH carrier.
Preamble: ALR007





Parametrization

Primitive	Parameter	Value
(1) MPH_CLASSMARK_REQ		
	classmark	CLASS_GSM_900
(2) MPH_IDLE_REQ		
	mod	MODE_CONFIG_PL
	arfcn	ARFCN_23
	ext_bcch	NOT_USED
	comb_ccch	COMB_CCCH_COMB
	tn	TN_0
	dlt	DLT_10
	pg	PG_20
	bs_ag_blocks_res	BS_AG_BLKS_RES_3
	bs_pa_mfrms	BS_PA_MFRMS_6
	power	POWER_12
	ncc_permitted	NOT_PRESENT_8BIT
	reorg_only	NORMAL_PGM
	gprs_support	MPH_GPRS_PROCS_USED

(3) MPHC_STOP_SCELL_BCCH_REQ

param	NOT_USED

(4) MPH_IDENTITY_REQ

mid	MS_ID_IMSI_TMSI

(5) MPH_MON_CTRL_REQ

action	ENTER_PIM_PBCCH
si_to_read	NOT_USED

(6) MPH_MON_CTRL_REQ

action	START_MON_CCCH
si_to_read	NOT_USED

(7) MPHC_START_CCCH_REQ

bs_pa_mfrms	BS_PA_MFRMS_8
bs_ag_blks_res	BS_AG_BLKS_RES_3
bcch_combined	COMB_CCCH_COMB
ccch_group	CCCH_GROUP_0
page_group	PG_20
page_block_index	PBI_0
page_mode	PGM_NORMAL

(8) MPH_NEIGHBOURCELL_REQ

multi_band	MULTI_BAND_0
arfcn	CHLIST_1_14_124_FFFF
sync_only	SYNC_LIST

(9) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_1
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_INVALID_TIMING_INFO

(10) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_14
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_INVALID_TIMING_INFO

(11) MPHC_NCELL_SYNC_REQ

radio_freq	ARFCN_124
fn_offset	NOT_USED
time_alignment	NOT_USED
timing_validity	TV_INVALID_TIMING_INFO

(12) MPHC_NCELL_SYNC_IND

radio_freq	ARFCN_14
sb_flag	SB_FOUND
fn_offset	FN_OFFSET_14
time_alignment	TIME_ALIGNMT_14
bsic	BSIC_1

(13) MPH_MEASUREMENT_IND

arfcn	NOT_USED
rx_lev_full	NOT_USED
rx_lev_sub	NOT_USED
rx_qual_full	NOT_USED
rx_qual_sub	NOT_USED
dtx	NOT_USED
otd	NOT_USED
valid	NOT_USED

	fn_offset	NOT_USED
	ncells	NCELLS_14_PBCCH
	gprs_sync	SYNC_RESULTS
(14) MPHC_NCELL_SYNC_IND		
	radio_freq	ARFCN_124
	sb_flag	NO_SB_FOUND
	fn_offset	FN_OFFSET_124
	time_alignment	TIME_ALIGNMT_124
	bsic	BSIC_1
(15) MPH_MEASUREMENT_IND		
	arfcn	NOT_USED
	rx_lev_full	NOT_USED
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	NOT_USED
	fn_offset	NOT_USED
	ncells	NCELLS_124_PBCCH
	gprs_sync	SYNC_RESULTS
(16) MPH_NEIGHBOURCELL_REQ		
	multi_band	MULTI_BAND_0
	arfcn	CHLIST_14_124_10_PBCCH
	sync_only	SYNC_LIST
(17) MPHC_STOP_NCELL_SYNC_REQ		
	radio_freq_array_size	STOP_SIZE_1
	radio_freq_array	NOT_USED
(18) MPHC_NCELL_SYNC_REQ		
	radio_freq	ARFCN_10
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
(19) MPHC_NCELL_SYNC_IND		
	radio_freq	ARFCN_10
	sb_flag	SB_FOUND
	fn_offset	FN_OFFSET_10
	time_alignment	TIME_ALIGNMT_10
	bsic	BSIC_2
(20) MPH_MEASUREMENT_IND		
	arfcn	NOT_USED
	rx_lev_full	NOT_USED
	rx_lev_sub	NOT_USED
	rx_qual_full	NOT_USED
	rx_qual_sub	NOT_USED
	dtx	NOT_USED
	otd	NOT_USED
	valid	NOT_USED
	fn_offset	NOT_USED
	ncells	NCELLS_10_PBCCH
	gprs_sync	SYNC_RESULTS
(21) MPHC_NCELL_SYNC_REQ		
	radio_freq	ARFCN_14
	fn_offset	FN_OFFSET_14

	time_alignment	TIME_ALIGNMT_14
	timing_validity	TV_VALID_TIMING_INFO
(22) MPHC_NCELL_SYNC_REQ		
	radio_freq	ARFCN_124
	fn_offset	NOT_USED
	time_alignment	NOT_USED
	timing_validity	TV_INVALID_TIMING_INFO
(23) MPHC_NCELL_SYNC_REQ		
	radio_freq	ARFCN_10
	fn_offset	FN_OFFSET_10
	time_alignment	TIME_ALIGNMT_10
	timing_validity	TV_VALID_TIMING_INFO
(24) MPH_MON_CTRL_REQ		
	action	LEAVING_PIM_PBCCH
	si_to_read	NOT_USED
(25) MPHC_STOP_CCCH_REQ		
	param	NOT_USED
(26) MPHC_STOP_NCELL_SYNC_REQ		
	radio_freq_array_size	STOP_SIZE_3
	radio_freq_array	NOT_USED
(27) MPH_MON_CTRL_REQ		
	action	LEAVING_PAM_PBCCH
	si_to_read	NOT_USED
(28) MPH_MON_CTRL_REQ		
	action	ENTER_PTM_PBCCH
	si_to_read	NOT_USED
(29) MPHC_NCELL_SB_READ		
	sb_flag	NOT_USED
	radio_freq	ARFCN_14
	bsic	BSIC_1
	fn_offset	FN_OFFSET_14
	time_alignmnt	TIME_ALIGNMT_14

History: 06.11.02 MPA Initial

Appendices

A. Acronyms

DS-WCDMA	Direct Sequence/Spread Wideband Code Division Multiple Access

B. Glossary

International Mobile Telecommunication 2000 (IMT-2000/ITU-2000)	Formerly referred to as FPLMTS (Future Public Land-Mobile Telephone System), this is the ITU's specification/family of standards for 3G. This initiative provides a global infrastructure through both satellite and terrestrial systems, for fixed and mobile phone users. The family of standards is a framework comprising a mix/blend of systems providing global roaming. <URL: http://www.imt-2000.org/>