



Technical Document – Confidential

GSM PROTOCOL STACK

MULTILAYER TEST SPECIFICATION

INITIAL

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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 / Response

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.

Error! Objects cannot be created from editing field codes.

Figure 1: Mobile-station protocol architecture

This document describes the test as set out in GSM 11.10-1, §11 and §26.2.

3 Parameters

```
#define REST_OCTET 0x2b
#define ARFCN_BCCH      122
#define ARFCN_BCCH_B    48
#define NCC              0x5
#define BCC              0x6
#define BSIC             ((NCC<<3)|(BCC))
#define RFN              0
#define SAPI_0           0
/*-----*\
| GSM 11.10
| 10 Generic call set up procedure
| 10.1 Generic call setup-up procedure for mobile terminating speech calls
| 10.1.2 Definition of system information messages
\*-----*/
/*-----*\
| Information Elements
\*-----*/
/*-----*\
| BCCH Frequency list:
| Indicates seven surrounding cells on any ARFCN of the supported
| band, excluding ARFCNs in or immediately adjacent to those
| specified in section 6.2 (GSM 11.10).
| From GSM 11.10, section6.2 the following ARFCN are given :
|      10, 14, 17, 18, 22, 24, 26, 30, 31, 34, 38, 42, 45, 46, 50,
|      52, 54, 58, 59, 62, 66, 70, 73, 74, 78, 80, 82, 86, 87, 90,
|      94, 98, 101, 102, 106, 108, 110, 114
| The following 7 cells are chosen :
|      121,117,      76,      48,      12,7,1
| Thus BA is : 01100000 00000800 00008000 00000841
\*-----*/
IE_BEGIN(facility_message_type)
    BF(1, 0,ACT_CHECK,ANONYMOUS,SILENT)
    BF(1, 0,ACT_SHOW, ANONYMOUS,SILENT)
    BF(6, 0x3A,ACT_CHECK,ANONYMOUS,SILENT)
IE_END(facility_message_type)

IE_BEGIN( imsi_detach_indication_message_type )
    BF(1, 0,ACT_CHECK,ANONYMOUS,SILENT)
    BF(1, 0,ACT_SHOW, ANONYMOUS,SILENT)
    BF(6, 0x01,ACT_CHECK,ANONYMOUS,SILENT )
IE_END( imsi_detach_indication_message_type )

IE_BEGIN(connect_message_type)
    BF(1, 0,ACT_CHECK,ANONYMOUS,SILENT)
    BF(1, 0,ACT_SHOW, ANONYMOUS,SILENT)
    BF(6, 0x07,ACT_CHECK,ANONYMOUS,SILENT)
IE_END(connect_message_type)

IE_BEGIN(connect_acknowledge_message_type)
    BF(1, 0,ACT_CHECK,ANONYMOUS,SILENT)
    BF(1, 0,ACT_SHOW, ANONYMOUS,SILENT)
    BF(6, 0x0F,ACT_CHECK,ANONYMOUS,SILENT)
IE_END(connect_acknowledge_message_type)

IE_BEGIN(alerting_message_type)
    BF(1, 0,ACT_CHECK,ANONYMOUS,SILENT)
    BF(1, 0,ACT_SHOW, ANONYMOUS,SILENT)
    BF(6, 0x01,ACT_CHECK,ANONYMOUS,SILENT)
```

```
IE_END(alerting_message_type)

IE_BEGIN( tmsi_reallocation_command_message_type )
    BF(1,      0,ACT_CHECK,ANONYMOUS,SILENT)
    BF(1,      0,ACT_SHOW, ANONYMOUS,SILENT)
    BF(6, 0x1A,ACT_CHECK,ANONYMOUS,SILENT )
IE_END( tmsi_reallocation_command_message_type )

IE_BEGIN( tmsi_reallocation_complete_message_type )
    BF(1,      0,ACT_CHECK,ANONYMOUS,SILENT)
    BF(1,      0,ACT_SHOW, ANONYMOUS,SILENT)
    BF(6, 0x1B,ACT_CHECK,ANONYMOUS,SILENT )
IE_END( tmsi_reallocation_complete_message_type )

IE_BEGIN( location_updating_request_message_type )
    BF(1,      0,ACT_CHECK,ANONYMOUS,SILENT)
    BF(1,      0,ACT_SHOW, ANONYMOUS,SILENT)
    BF(6, 0x08,ACT_CHECK,ANONYMOUS,SILENT )
IE_END( location_updating_request_message_type )

IE_BEGIN( location_updating_reject_message_type )
    BF( 1,      0,ACT_CHECK, ANONYMOUS, SILENT)
    BF( 1,      0,ACT_SHOW, ANONYMOUS, SILENT)
    BF( 6, 0x04,ACT_CHECK,ANONYMOUS, SILENT )
IE_END( location_updating_reject_message_type )

IE_BEGIN( location_updating_accept_message_type )
    BF(1,      0,ACT_CHECK,ANONYMOUS,SILENT)
    BF(1,      0,ACT_SHOW, ANONYMOUS,SILENT)
    BF(6, 0x02,ACT_CHECK,ANONYMOUS,SILENT )
IE_END( location_updating_accept_message_type )

IE_BEGIN(assignment_command_message_type)
    BF(8, 0x2E,ACT_CHECK,ANONYMOUS,SILENT)
IE_END(assignment_command_message_type)
IE_BEGIN( channel_release_message_type )
    BF( 8, 0x0D,ACT_CHECK,ANONYMOUS,SILENT )
IE_END( channel_release_message_type )

IE_BEGIN(assignment_complete_message_type)
    BF(8, 0x29,ACT_CHECK,ANONYMOUS,SILENT)
IE_END(assignment_complete_message_type)
IE_BEGIN(power_command)
    BF(8,10,ACT_CHECK,power,SILENT)
IE_END(power_command)
IE_BEGIN(description_of_the_first_channel_after_time)
    BF( 5,M5(0,0,0,0,1),ACT_CHECK,      channel_type,"TCH ")
    BF( 3,              3,ACT_CHECK,      time_slot_number,"three")
    BF( 3,              BCC,ACT_CHECK,training_sequence_code,"same as BCCH")
    BF( 1,              0,ACT_CHECK,      hopping,"No")
    BF( 2,              0,ACT_CHECK,      spare,SILENT)
    BF(10,  ARFCN_BCCH,ACT_CHECK,      arfcn,"ARFCN of the BCCH")
IE_END(description_of_the_first_channel_after_time)

IE_BEGIN(authentication_response_message_type)
    BF(1,      0,ACT_CHECK,ANONYMOUS,SILENT)
    BF(1,      0,ACT_SHOW, ANONYMOUS,SILENT)
    BF(6, 0x14,ACT_CHECK,ANONYMOUS,SILENT)
IE_END(authentication_response_message_type)
```

```

IE_BEGIN( location_updating_type_attach)
    BF( 1, 0, ACT_CHECK, fo_req, "no follow-on request pending" )
    BF( 1, 0, ACT_CHECK, ANONYMOUS, "spare" )
    BF( 2, M2(1,0), ACT_CHECK, lut, "IMSI attach" )
IE_END( location_updating_type_attach )

IE_BEGIN( location_updating_type_normal)
    BF( 1, 0, ACT_CHECK, fo_req, "no follow-on request pending" )
    BF( 1, 0, ACT_CHECK, ANONYMOUS, "spare" )
    BF( 2, M2(0,0), ACT_CHECK, lut, "normal lup" )
IE_END( location_updating_type_normal)

IE_BEGIN( location_updating_type_periodic)
    BF( 1, 0, ACT_CHECK, fo_req, "no follow-on request pending" )
    BF( 1, 0, ACT_CHECK, ANONYMOUS, "spare" )
    BF( 2, M2(0,1), ACT_CHECK, lut, "periodic lup" )
IE_END( location_updating_type_periodic)

IE_BEGIN( reject_cause )
    BF( 8, 0x21, ACT_CHECK, reject_cause, /* Ref.: [1], §10.5.3.6 */
    IE_END( reject_cause )                "Service option not subscribed" )

IE_BEGIN(call_proceeding_message_type)
    BF(1, 0, ACT_CHECK, ANONYMOUS, SILENT)
    BF(1, 0, ACT_SHOW, ANONYMOUS, SILENT)
    BF(6, 0x02, ACT_CHECK, ANONYMOUS, SILENT)
IE_END(call_proceeding_message_type)

IE_BEGIN(bcch_frequency_list)
    BF(32, 0x01100000, ACT_CHECK, ANONYMOUS, "bit 128 thru 97")
    BF(32, 0x00000800, ACT_CHECK, ANONYMOUS, "bit 96 thru 65")
    BF(32, 0x00000800, ACT_CHECK, ANONYMOUS, "bit 64 thru 33")
    BF(32, 0x00000841, ACT_CHECK, ANONYMOUS, "bit 32 thru 1")
IE_END(bcch_frequency_list)

IE_BEGIN(cell_channel_description)
    BF(32, 0x00000000, ACT_CHECK, ANONYMOUS, "Includes the ")
    BF(32, 0x00000000, ACT_CHECK, ANONYMOUS, "hopping sequence ")
    BF(32, 0x00000000, ACT_CHECK, ANONYMOUS, "ARFCNs, if hopping ")
    BF(32, 0x00000000, ACT_CHECK, ANONYMOUS, "is used. ")
IE_END(cell_channel_description)

IE_BEGIN(cell_identity)
    BF(16, 0x0001, ACT_CHECK, ANONYMOUS, "CI VALUE 0001 hex (not relevant)")
IE_END(cell_identity)

IE_BEGIN(cell_identity_B)
    BF(16, 0x0002, ACT_CHECK, ANONYMOUS, "CI VALUE 0002 hex (not relevant)")
IE_END(cell_identity_B)

IE_BEGIN(cell_options)
    BF(1, 0, ACT_CHECK, ANONYMOUS, "spare ")
    BF(1, 0, ACT_CHECK, pwrc, "power control not set")
    BF(2, 2, ACT_CHECK, dtx, "MS must not use DTX ")
    BF(4, 1, ACT_CHECK, radio_link_time_out, "8 ")
IE_END(cell_options)

IE_BEGIN(cell_selection_parameter)
    BF(3, 0, ACT_CHECK, cell_reselect_hysteresis, "0 dB")
    BF(5, 0, ACT_CHECK, ms_txpwr_max_cch, "Max. output power of MS")
    BF(1, 0, ACT_CHECK, acs, "no additional cell params")
    BF(1, 0, ACT_CHECK, neci, "New est. cause not supp.")
    BF(6, -90+111, ACT_CHECK, rxlev_access_min, "-90 dBm")
IE_END(cell_selection_parameter)

IE_BEGIN(cell_selection_parameter_neci1)
    BF(3, 0, ACT_CHECK, cell_reselect_hysteresis, "0 dB")
    BF(5, 0, ACT_CHECK, ms_txpwr_max_cch, "Max. output power of MS")

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        BF(1, 0,ACT_CHECK,acs, "no additional cell params")
        BF(1, 1,ACT_CHECK,neci, "New est. cause supp.")
        BF(6,-90+111,ACT_CHECK,rxlev_access_min, "-90 dBm")
    IE_END(cell_selection_parameter_neci1)

    IE_BEGIN(control_channel_description)
        BF(1,0,ACT_CHECK,ANONYMOUS, "spare")
        BF(1,0,ACT_CHECK,att, "MS shall not apply (not relevant) ")
        BF(3,0,ACT_CHECK,bs_ag_blks_res, "0 blocks reserved (not relevant) ")
        BF(3,1,ACT_CHECK,ccch_conf, "Combined CCCH/SDCCH (not relevant)")
        BF(5,0,ACT_CHECK,ANONYMOUS, "spare")
        BF(3,3,ACT_CHECK,bs_pa_mfrms, "5 multiframes (not relevant) ")
        BF(8,0,ACT_CHECK,t3212, "Infinite")
    IE_END(control_channel_description)

    IE_BEGIN(control_channel_description_changed)
        BF(1,0,ACT_CHECK,ANONYMOUS, "spare")
        BF(1,0,ACT_CHECK,att, "MS shall not apply")
        BF(3,2,ACT_CHECK,bs_ag_blks_res, "2 blocks reserved")
        BF(3,0,ACT_CHECK,ccch_conf, "Non Combined CCCH/SDCCH")
        BF(5,0,ACT_CHECK,ANONYMOUS, "spare")
        BF(3,4,ACT_CHECK,bs_pa_mfrms, "6 multiframes")
        BF(8,0,ACT_CHECK,t3212, "Infinite")
    IE_END(control_channel_description_changed)

    IE_BEGIN(control_channel_description_att)
        BF(1,0,ACT_CHECK,ANONYMOUS, "spare")
        BF(1,1,ACT_CHECK,att, "MS shall apply")
        BF(3,0,ACT_CHECK,bs_ag_blks_res, "0 blocks reserved (not relevant) ")
        BF(3,1,ACT_CHECK,ccch_conf, "Combined CCCH/SDCCH (not relevant)")
        BF(5,0,ACT_CHECK,ANONYMOUS, "spare")
        BF(3,3,ACT_CHECK,bs_pa_mfrms, "5 multiframes (not relevant) ")
        BF(8,0,ACT_CHECK,t3212, "Infinite")
    IE_END(control_channel_description_att)

    IE_BEGIN(control_channel_description_att_per)
        BF(1,0,ACT_CHECK,ANONYMOUS, "spare")
        BF(1,1,ACT_CHECK,att, "MS shall apply")
        BF(3,0,ACT_CHECK,bs_ag_blks_res, "0 blocks reserved (not relevant) ")
        BF(3,1,ACT_CHECK,ccch_conf, "Combined CCCH/SDCCH (not relevant)")
        BF(5,0,ACT_CHECK,ANONYMOUS, "spare")
        BF(3,3,ACT_CHECK,bs_pa_mfrms, "5 multiframes (not relevant) ")
        BF(8,1,ACT_CHECK,t3212, "6 minutes")
    IE_END(control_channel_description_att_per)

    IE_BEGIN(l2_pseudo_length_12)
        BF(6,12,ACT_CHECK,ANONYMOUS,SILENT)
        BF(1, 0,ACT_CHECK,ANONYMOUS,SILENT)
        BF(1, 1,ACT_CHECK,ANONYMOUS,SILENT)
    IE_END(l2_pseudo_length_12)
    IE_BEGIN(l2_pseudo_length_18)
        BF(6,18,ACT_CHECK,ANONYMOUS,SILENT)
        BF(1, 0,ACT_CHECK,ANONYMOUS,SILENT)
        BF(1, 1,ACT_CHECK,ANONYMOUS,SILENT)
    IE_END(l2_pseudo_length_18)
    IE_BEGIN(l2_pseudo_length_21)
        BF(6,21,ACT_CHECK,ANONYMOUS,SILENT)
        BF(1, 0,ACT_CHECK,ANONYMOUS,SILENT)
        BF(1, 1,ACT_CHECK,ANONYMOUS,SILENT)
    IE_END(l2_pseudo_length_21)

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IE_BEGIN(12_pseudo_length_22)
    BF(6,22,ACT_CHECK,ANONYMOUS,SILENT)
    BF(1, 0,ACT_CHECK,ANONYMOUS,SILENT)
    BF(1, 1,ACT_CHECK,ANONYMOUS,SILENT)
IE_END(12_pseudo_length_22)
#define MCC 0x262 /* 262 decimal (not relevant) */
#define MNC 1 /* 01 decimal (not relevant) */
#define LAC 0x0001 /* 0001 hex (not relevant) */
#define LAC_B 0x0002 /* 0002 hex (not relevant) */
IE_BEGIN(location_area_identification)
    BF( 4,6 ,ACT_CHECK,mcc_dig_2,"digit 2 of mobile country code")
    BF( 4,2 ,ACT_CHECK,mcc_dig_1,"digit 1 of mobile country code")
    BF( 4, 0xF,ACT_CHECK,ANONYMOUS ,"end of MCC ")
    BF( 4,2 ,ACT_CHECK,mcc_dig_3,"digit 3 of mobile country code")
    BF( 4,1 ,ACT_CHECK,mnc_dig_2,"digit 2 of mobile network code")
    BF( 4,0 ,ACT_CHECK,mnc_dig_1,"digit 1 of mobile network code")
    BF(16, LAC,ACT_CHECK,lac ,"Location area code ")
IE_END(location_area_identification)
IE_BEGIN(location_area_identification_234_01_0000)
    BF( 4,3 ,ACT_CHECK,mcc_dig_2,"digit 2 of mobile country code")
    BF( 4,2 ,ACT_CHECK,mcc_dig_1,"digit 1 of mobile country code")
    BF( 4, 0xF,ACT_CHECK,ANONYMOUS ,"end of MCC ")
    BF( 4,4 ,ACT_CHECK,mcc_dig_3,"digit 3 of mobile country code")
    BF( 4,1 ,ACT_CHECK,mnc_dig_2,"digit 2 of mobile network code")
    BF( 4,0 ,ACT_CHECK,mnc_dig_1,"digit 1 of mobile network code")
    BF(16,0 ,ACT_CHECK,lac ,"Location area code ")
IE_END(location_area_identification_234_01_0000)
IE_BEGIN(location_area_identification_234_01_FFFE)
    BF( 4,3 ,ACT_CHECK,mcc_dig_2,"digit 2 of mobile country code")
    BF( 4,2 ,ACT_CHECK,mcc_dig_1,"digit 1 of mobile country code")
    BF( 4, 0xF,ACT_CHECK,ANONYMOUS ,"end of MCC ")
    BF( 4,4 ,ACT_CHECK,mcc_dig_3,"digit 3 of mobile country code")
    BF( 4,1 ,ACT_CHECK,mnc_dig_2,"digit 2 of mobile network code")
    BF( 4,0 ,ACT_CHECK,mnc_dig_1,"digit 1 of mobile network code")
    BF(16,0xFFFFE,ACT_CHECK,lac ,"Location area code ")
IE_END(location_area_identification_234_01_FFFE)
IE_BEGIN(location_area_identification_234_01_0001)
    BF( 4,3 ,ACT_CHECK,mcc_dig_2,"digit 2 of mobile country code")
    BF( 4,2 ,ACT_CHECK,mcc_dig_1,"digit 1 of mobile country code")
    BF( 4, 0xF,ACT_CHECK,ANONYMOUS ,"end of MCC ")
    BF( 4,4 ,ACT_CHECK,mcc_dig_3,"digit 3 of mobile country code")
    BF( 4,1 ,ACT_CHECK,mnc_dig_2,"digit 2 of mobile network code")
    BF( 4,0 ,ACT_CHECK,mnc_dig_1,"digit 1 of mobile network code")
    BF(16,1 ,ACT_CHECK,lac ,"Location area code ")
IE_END(location_area_identification_234_01_0001)
IE_BEGIN(location_area_identification_234_02_0001)
    BF( 4,3 ,ACT_CHECK,mcc_dig_2,"digit 2 of mobile country code")
    BF( 4,2 ,ACT_CHECK,mcc_dig_1,"digit 1 of mobile country code")
    BF( 4, 0xF,ACT_CHECK,ANONYMOUS ,"end of MCC ")
    BF( 4,4 ,ACT_CHECK,mcc_dig_3,"digit 3 of mobile country code")
    BF( 4,2 ,ACT_CHECK,mnc_dig_2,"digit 2 of mobile network code")
    BF( 4,0 ,ACT_CHECK,mnc_dig_1,"digit 1 of mobile network code")
    BF(16,1 ,ACT_CHECK,lac ,"Location area code ")
IE_END(location_area_identification_234_02_0001)
IE_BEGIN(location_area_identification_234_03_0001)
    BF( 4,3 ,ACT_CHECK,mcc_dig_2,"digit 2 of mobile country code")
    BF( 4,2 ,ACT_CHECK,mcc_dig_1,"digit 1 of mobile country code")
    BF( 4, 0xF,ACT_CHECK,ANONYMOUS ,"end of MCC ")
    BF( 4,4 ,ACT_CHECK,mcc_dig_3,"digit 3 of mobile country code")
    BF( 4,3 ,ACT_CHECK,mnc_dig_2,"digit 2 of mobile network code")

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        BF( 4,0      ,ACT_CHECK,mnc_dig_1,"digit 1 of mobile network code")
        BF(16,1      ,ACT_CHECK,lac      ,"Location area code          ")
    IE_END(location_area_identification_234_03_0001)
    IE_BEGIN(location_area_identification_234_04_0001)
        BF( 4,3      ,ACT_CHECK,mcc_dig_2,"digit 2 of mobile country code")
        BF( 4,2      ,ACT_CHECK,mcc_dig_1,"digit 1 of mobile country code")
        BF( 4,    0xF,ACT_CHECK,ANONYMOUS  ,"end of MCC                      ")
        BF( 4,4      ,ACT_CHECK,mcc_dig_3,"digit 3 of mobile country code")
        BF( 4,4      ,ACT_CHECK,mnc_dig_2,"digit 2 of mobile network code")
        BF( 4,0      ,ACT_CHECK,mnc_dig_1,"digit 1 of mobile network code")
        BF(16,1      ,ACT_CHECK,lac      ,"Location area code          ")
    IE_END(location_area_identification_234_04_0001)
    IE_BEGIN(location_area_identification_234_05_0001)
        BF( 4,3      ,ACT_CHECK,mcc_dig_2,"digit 2 of mobile country code")
        BF( 4,2      ,ACT_CHECK,mcc_dig_1,"digit 1 of mobile country code")
        BF( 4,    0xF,ACT_CHECK,ANONYMOUS  ,"end of MCC                      ")
        BF( 4,4      ,ACT_CHECK,mcc_dig_3,"digit 3 of mobile country code")
        BF( 4,5      ,ACT_CHECK,mnc_dig_2,"digit 2 of mobile network code")
        BF( 4,0      ,ACT_CHECK,mnc_dig_1,"digit 1 of mobile network code")
        BF(16,1      ,ACT_CHECK,lac      ,"Location area code          ")
    IE_END(location_area_identification_234_05_0001)
    IE_BEGIN(location_area_identification_234_06_0001)
        BF( 4,3      ,ACT_CHECK,mcc_dig_2,"digit 2 of mobile country code")
        BF( 4,2      ,ACT_CHECK,mcc_dig_1,"digit 1 of mobile country code")
        BF( 4,    0xF,ACT_CHECK,ANONYMOUS  ,"end of MCC                      ")
        BF( 4,4      ,ACT_CHECK,mcc_dig_3,"digit 3 of mobile country code")
        BF( 4,6      ,ACT_CHECK,mnc_dig_2,"digit 2 of mobile network code")
        BF( 4,0      ,ACT_CHECK,mnc_dig_1,"digit 1 of mobile network code")
        BF(16,1      ,ACT_CHECK,lac      ,"Location area code          ")
    IE_END(location_area_identification_234_06_0001)
    IE_BEGIN(location_area_identification_246_81_0001)
        BF( 4,4      ,ACT_CHECK,mcc_dig_2,"digit 2 of mobile country code")
        BF( 4,2      ,ACT_CHECK,mcc_dig_1,"digit 1 of mobile country code")
        BF( 4,    0xF,ACT_CHECK,ANONYMOUS  ,"end of MCC                      ")
        BF( 4,6      ,ACT_CHECK,mcc_dig_3,"digit 3 of mobile country code")
        BF( 4,1      ,ACT_CHECK,mnc_dig_2,"digit 2 of mobile network code")
        BF( 4,8      ,ACT_CHECK,mnc_dig_1,"digit 1 of mobile network code")
        BF(16,1      ,ACT_CHECK,lac      ,"Location area code          ")
    IE_END(location_area_identification_246_81_0001)
    IE_BEGIN(location_area_identification_246_82_0001)
        BF( 4,4      ,ACT_CHECK,mcc_dig_2,"digit 2 of mobile country code")
        BF( 4,2      ,ACT_CHECK,mcc_dig_1,"digit 1 of mobile country code")
        BF( 4,    0xF,ACT_CHECK,ANONYMOUS  ,"end of MCC                      ")
        BF( 4,6      ,ACT_CHECK,mcc_dig_3,"digit 3 of mobile country code")
        BF( 4,2      ,ACT_CHECK,mnc_dig_2,"digit 2 of mobile network code")
        BF( 4,8      ,ACT_CHECK,mnc_dig_1,"digit 1 of mobile network code")
        BF(16,1      ,ACT_CHECK,lac      ,"Location area code          ")
    IE_END(location_area_identification_246_82_0001)

    IE_BEGIN(location_area_identification_B)
        BF( 4,6      ,ACT_CHECK,mcc_dig_2,"digit 2 of mobile country code")
        BF( 4,2      ,ACT_CHECK,mcc_dig_1,"digit 1 of mobile country code")
        BF( 4,    0xF,ACT_CHECK,ANONYMOUS  ,"end of MCC                      ")
        BF( 4,2      ,ACT_CHECK,mcc_dig_3,"digit 3 of mobile country code")
        BF( 4,1      ,ACT_CHECK,mnc_dig_2,"digit 2 of mobile network code")
        BF( 4,0      ,ACT_CHECK,mnc_dig_1,"digit 1 of mobile network code")
        BF(16,LAC_B,ACT_CHECK,lac      ,"Location area code          ")
    IE_END(location_area_identification_B)
    IE_BEGIN(mobile_identity_tmsi)
        BF(8,  5,      ACT_CHECK,length,  "five octets to come")

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BF(4,  M4(1,1,1,1), ACT_CHECK,ANONYMOUS,"bits 5-8 of octet 3 ='1111'")
BF( 1, 0,          ACT_CHECK,odd_even,  "as applicable for TMSI")
BF( 3, M3(1,0,0), ACT_CHECK,type,      "TMSI")
BF( 8, 0x12,      ACT_CHECK,          ANONYMOUS,      SILENT)
BF( 8, 0x34,      ACT_CHECK,          ANONYMOUS,      SILENT)
BF( 8, 0x56,      ACT_CHECK,          ANONYMOUS,      SILENT)
BF( 8, 0x78,      ACT_CHECK,          ANONYMOUS,      SILENT)
IE_END(mobile_identity_tmsi)

IE_BEGIN(mobile_identity_tmsi_27_5)
BF(8,  5,          ACT_CHECK,length,  "five octets to come")
BF(4,  M4(1,1,1,1), ACT_CHECK,ANONYMOUS,"bits 5-8 of octet 3 ='1111'")
BF( 1, 0,          ACT_CHECK,odd_even,  "as applicable for TMSI")
BF( 3, M3(1,0,0), ACT_CHECK,type,      "TMSI")
BF( 8, 0x32,      ACT_CHECK,          ANONYMOUS,      SILENT)
BF( 8, 0x54,      ACT_CHECK,          ANONYMOUS,      SILENT)
BF( 8, 0x76,      ACT_CHECK,          ANONYMOUS,      SILENT)
BF( 8, 0x98,      ACT_CHECK,          ANONYMOUS,      SILENT)
IE_END(mobile_identity_tmsi_27_5)

IE_BEGIN(mobile_identity_imsi_27_5)
BF(8,  8,          ACT_CHECK,length,  "five octets to come")
BF(4,  2,          ACT_CHECK,digit_1,"digit 1 = 2")
BF( 1, 1,          ACT_CHECK,odd_even, SILENT)
BF( 3, M3(0,0,1), ACT_CHECK,type,      "IMSI")
BF( 8, 0x64,      ACT_CHECK,          ANONYMOUS,      SILENT)
BF( 8, 0x18,      ACT_CHECK,          ANONYMOUS,      SILENT)
BF( 8, 0x11,      ACT_CHECK,          ANONYMOUS,      SILENT)
BF( 8, 0x11,      ACT_CHECK,          ANONYMOUS,      SILENT)
BF( 8, 0x11,      ACT_CHECK,          ANONYMOUS,      SILENT)
BF( 8, 0x11,      ACT_CHECK,          ANONYMOUS,      SILENT)
IE_END(mobile_identity_imsi_27_5)

IE_BEGIN(mobile_identity_imsi_27_10_1)
BF(8,  5,          ACT_CHECK,length,  "five octets to come")
BF(4,  2,          ACT_CHECK,digit_1,"digit 1 = 2")
BF( 1, 1,          ACT_CHECK,odd_even, SILENT)
BF( 3, M3(0,0,1), ACT_CHECK,type,      "IMSI")
BF( 8, 0x64,      ACT_CHECK,          ANONYMOUS,      SILENT)
BF( 8, 0x18,      ACT_CHECK,          ANONYMOUS,      SILENT)
BF( 8, 0x53,      ACT_CHECK,          ANONYMOUS,      SILENT)
BF( 8, 0x97,      ACT_CHECK,          ANONYMOUS,      SILENT)
IE_END(mobile_identity_imsi_27_10_1)

IE_BEGIN(mobile_identity_imsi_27_10_2)
BF(8,  5,          ACT_CHECK,length,  "five octets to come")
BF(4,  2,          ACT_CHECK,digit_1,"digit 1 = 2")
BF( 1, 1,          ACT_CHECK,odd_even, SILENT)
BF( 3, M3(0,0,1), ACT_CHECK,type,      "IMSI")
BF( 8, 0x64,      ACT_CHECK,          ANONYMOUS,      SILENT)
BF( 8, 0x18,      ACT_CHECK,          ANONYMOUS,      SILENT)
BF( 8, 0x53,      ACT_CHECK,          ANONYMOUS,      SILENT)
BF( 8, 0x93,      ACT_CHECK,          ANONYMOUS,      SILENT)
IE_END(mobile_identity_imsi_27_10_2)

IE_BEGIN( mobile_identity_imsi )
BF( 8,  7,          ACT_CHECK, length,          "seven octets to come" )
BF( 4,  2,          ACT_CHECK, digit_1,          SILENT )
BF( 1,  1,          ACT_CHECK, odd_even,          SILENT )
BF( 3,  M3(0,0,1) , ACT_CHECK, type,            "IMSI" )
BF( 4,  2,          ACT_CHECK, digit_3,          SILENT )
BF( 4,  6,          ACT_CHECK, digit_2,          SILENT )
BF( 4,  1,          ACT_CHECK, digit_5,          SILENT )

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BF( 4, 0, ACT_CHECK, digit_4, SILENT )
BF( 4, 7, ACT_CHECK, digit_7, SILENT )
BF( 4, 4, ACT_CHECK, digit_6, SILENT )
BF( 4, 1, ACT_CHECK, digit_9, SILENT )
BF( 4, 1, ACT_CHECK, digit_8, SILENT )
BF( 4, 9, ACT_CHECK, digit_11, SILENT )
BF( 4, 4, ACT_CHECK, digit_10, SILENT )
BF( 4, 2, ACT_CHECK, digit_13, SILENT )
BF( 4, 1, ACT_CHECK, digit_12, SILENT )
IE_END( mobile_identity_imsi )

IE_BEGIN( mobile_identity_tmsi_27_7 )
BF( 8, 5, ACT_CHECK, length, "five octets to come")
BF( 4, M4(1,1,1,1), ACT_CHECK, ANONYMOUS, "bits 5-8 of octet 3 ='1111'")
BF( 1, 0, ACT_CHECK, odd_even, "as applicable for TMSI")
BF( 3, M3(1,0,0), ACT_CHECK, type, "TMSI")
BF( 8, 0x32, ACT_CHECK, ANONYMOUS, SILENT )
BF( 8, 0x54, ACT_CHECK, ANONYMOUS, SILENT )
BF( 8, 0x76, ACT_CHECK, ANONYMOUS, SILENT )
BF( 8, 0x98, ACT_CHECK, ANONYMOUS, SILENT )
IE_END( mobile_identity_tmsi_27_7 )

IE_BEGIN( tmsi )
BF( 8, 0x12, ACT_CHECK, ANONYMOUS, SILENT )
BF( 8, 0x34, ACT_CHECK, ANONYMOUS, SILENT )
BF( 8, 0x56, ACT_CHECK, ANONYMOUS, SILENT )
BF( 8, 0x78, ACT_CHECK, ANONYMOUS, SILENT )
IE_END( tmsi )

IE_BEGIN( repeat_indicator_circular )
BF( 8, 0xD1, ACT_CHECK, ri, SILENT )
IE_END( repeat_indicator_circular )

IE_BEGIN( cc_capabilities )
BF( 8, 1, ACT_CHECK, length, SILENT )
BF( 6, 0, ACT_CHECK, spare, SILENT )
BF( 1, 1, ACT_CHECK, ccbs_support, SILENT )
BF( 1, 1, ACT_CHECK, dtmf_support, SILENT )
IE_END( cc_capabilities )

IE_BEGIN( signal_call_waiting )
BF( 8, M8(0,0,0,0,0,1,1,1), ACT_CHECK, signal_value, "(Any non-res. value)")
IE_END( signal_call_waiting )
IE_BEGIN( bearer_capability )
BF( 8, 1, ACT_CHECK, length, SILENT )
BF( 1, 1, ACT_CHECK, ext3, SILENT )
BF( 2, 1, ACT_CHECK, radio_channel_requirement, SILENT )
BF( 1, 0, ACT_CHECK, coding_standard, SILENT )
BF( 1, 0, ACT_CHECK, transfer_mode, SILENT )
BF( 3, 0, ACT_CHECK, info_transfer_capability, SILENT )
IE_END( bearer_capability )

IE_BEGIN( 12_pseudo_length_19 ) /* Ref.: [1], §10.5.2.19 */
BF( 6, 19, ACT_CHECK, ANONYMOUS, SILENT )
BF( 1, 0, ACT_CHECK, ANONYMOUS, SILENT )
BF( 1, 1, ACT_CHECK, ANONYMOUS, SILENT )
IE_END( 12_pseudo_length_19 )

IE_BEGIN( tmsi_2 )
BF( 8, 0x12, ACT_CHECK, ANONYMOUS, SILENT )
BF( 8, 0x79, ACT_CHECK, ANONYMOUS, SILENT )
BF( 8, 0x13, ACT_CHECK, ANONYMOUS, SILENT )

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    BF( 8, 0x78,          ACT_CHECK,          ANONYMOUS,          SILENT)
IE_END(tmsi_2)

IE_BEGIN(rr_cause)
    BF(8,0,ACT_CHECK,rr_cause,"normal event")
IE_END(rr_cause)
IE_BEGIN(mode_of_the_first_channel)
    BF(8,1,ACT_CHECK,mode,"Speech full rate")
IE_END(mode_of_the_first_channel)
IE_BEGIN(iei_08)
    BF(8,0x08,ACT_CHECK,ANONYMOUS,SILENT)
IE_END(iei_08)
IE_BEGIN(iei_1C)
    BF(8,0x1C,ACT_CHECK,ANONYMOUS,SILENT)
IE_END(iei_1C)

IE_BEGIN(iei_15)
    BF(8,0x15,ACT_CHECK,ANONYMOUS,SILENT)
IE_END(iei_15)
IE_BEGIN(iei_17)
    BF(8,0x17,ACT_CHECK,ANONYMOUS,SILENT)
IE_END(iei_17)
IE_BEGIN(iei_04)
    BF(8,0x04,ACT_CHECK,ANONYMOUS,SILENT)
IE_END(iei_04)
IE_BEGIN(iei_34)
    BF(8,0x34,ACT_CHECK,ANONYMOUS,SILENT)
IE_END(iei_34)
IE_BEGIN(iei_5E)
    BF(8,0x5E,ACT_CHECK,ANONYMOUS,SILENT)
IE_END(iei_5E)
IE_BEGIN(iei_63)
    BF(8,0x63,ACT_CHECK,ANONYMOUS,SILENT)
IE_END(iei_63)
IE_BEGIN(transaction_identifier_source)
    BF(4,M4(0,0,0,0),ACT_CHECK,ANONYMOUS,SILENT)
IE_END(transaction_identifier_source)
IE_BEGIN(page_mode)
    BF(2,0,ACT_CHECK,spare,"two spare bits  ")
    BF(2,0,ACT_CHECK,pm    ,"Normal Paging")
IE_END(page_mode)

IE_BEGIN(facility_aocc)
    BF(8, 0x2D,ACT_CHECK,length_of_fac_ie_content,SILENT)
    BF(8, 0xA1,ACT_CHECK,component_type_tag,"INVOKE")
    BF(8, 0x80,ACT_CHECK,component_length, SILENT)
    BF(8, 0x02,ACT_CHECK,invoke_id_tag, SILENT)
    BF(8, 0x01,ACT_CHECK,invoke_id_length, SILENT)
    BF(8, 0x00,ACT_CHECK,invoke_id, SILENT)
    BF(8, 0x02,ACT_CHECK,operation_code_tag, SILENT)
    BF(8, 0x01,ACT_CHECK,operation_code_length, SILENT)
    BF(8, 0x7D,ACT_CHECK,operation_code, "ForwardChargeAdviceArg")
    BF(8, 0x21,ACT_CHECK,ForwardChargeAdviceArgLength, SILENT)
    BF(8, 0x80,ACT_CHECK,ss_code_tag, SILENT)
    BF(8, 0x01,ACT_CHECK,ss_code_length, SILENT)
    BF(8, 0x72,ACT_CHECK,ss_code, "AoC Charging")
    BF(8, 0x81,ACT_CHECK,e1_tag, SILENT)
    BF(8, 0x02,ACT_CHECK,e1_length, SILENT)
    BF(8, 0x00,ACT_CHECK,e1_value_msb, SILENT)
    BF(8, 0x64,ACT_CHECK,e1_value_lsb, SILENT)
    BF(8, 0x82,ACT_CHECK,e2_tag, SILENT)

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BF(8, 0x02,ACT_CHECK,e2_length, SILENT)
BF(8, 0x02,ACT_CHECK,e2_value_msb, SILENT)
BF(8, 0x26,ACT_CHECK,e2_value_lsb, SILENT)
BF(8, 0x83,ACT_CHECK,e3_tag, SILENT)
BF(8, 0x02,ACT_CHECK,e3_length, SILENT)
BF(8, 0x00,ACT_CHECK,e3_value_msb, SILENT)
BF(8, 0x64,ACT_CHECK,e3_value_lsb, SILENT)
BF(8, 0x84,ACT_CHECK,e4_tag, SILENT)
BF(8, 0x02,ACT_CHECK,e4_length, SILENT)
BF(8, 0x00,ACT_CHECK,e4_value_msb, SILENT)
BF(8, 0x64,ACT_CHECK,e4_value_lsb, SILENT)
BF(8, 0x85,ACT_CHECK,e5_tag, SILENT)
BF(8, 0x02,ACT_CHECK,e5_length, SILENT)
BF(8, 0x00,ACT_CHECK,e5_value_msb, SILENT)
BF(8, 0x00,ACT_CHECK,e5_value_lsb, SILENT)
BF(8, 0x86,ACT_CHECK,e6_tag, SILENT)
BF(8, 0x02,ACT_CHECK,e6_length, SILENT)
BF(8, 0x00,ACT_CHECK,e6_value_msb, SILENT)
BF(8, 0x00,ACT_CHECK,e6_value_lsb, SILENT)
BF(8, 0x87,ACT_CHECK,e7_tag, SILENT)
BF(8, 0x02,ACT_CHECK,e7_length, SILENT)
BF(8, 0x00,ACT_CHECK,e7_value_msb, SILENT)
BF(8, 0x64,ACT_CHECK,e7_value_lsb, SILENT)
BF(8, 0x00,ACT_CHECK,end_of_content_tag, SILENT)
BF(8, 0x00,ACT_CHECK,length_indicator, SILENT)
IE_END(facility_aocc)

IE_BEGIN(release_complete_message_type)
BF(1, 0,ACT_CHECK,ANONYMOUS,SILENT)
BF(1, 0,ACT_SHOW, ANONYMOUS,SILENT)
BF(6, 0x2A,ACT_CHECK,ANONYMOUS,SILENT)
IE_END(release_complete_message_type)

IE_BEGIN(called_party_bcd_number)
BF( 8,7,ACT_CHECK,length, "length of IE")
BF( 1,1,ACT_CHECK,ext, "Extension Bit")
BF( 3,0,ACT_CHECK,type_of_number, "Unknown")
BF( 4,1,ACT_CHECK,numbering_plan, "ISDN/telephony")
BF( 4,3,ACT_CHECK,digit_2, "Digit 2")
BF( 4,0,ACT_CHECK,digit_1, "Digit 1")
BF( 4,3,ACT_CHECK,digit_4, "Digit 4")
BF( 4,0,ACT_CHECK,digit_3, "Digit 3")
BF( 4,0,ACT_CHECK,digit_6, "Digit 6")
BF( 4,9,ACT_CHECK,digit_5, "Digit 5")
BF( 4,4,ACT_CHECK,digit_8, "Digit 8")
BF( 4,9,ACT_CHECK,digit_7, "Digit 7")
BF( 4,1,ACT_CHECK,digit_10, "Digit 10")
BF( 4,1,ACT_CHECK,digit_9, "Digit 9")
BF( 4,0xF,ACT_CHECK,digit_12, "Digit 12")
BF( 4,7,ACT_CHECK,digit_11, "Digit 11")
IE_END(called_party_bcd_number)

IE_BEGIN(bearer_capability_data)
BF(8,7,ACT_CHECK, length, SILENT)
BF(1,1,ACT_CHECK, ext3, SILENT)
BF(2,1,ACT_CHECK, radio_channel_requirement,SILENT)
BF(1,0,ACT_CHECK, coding_standard, SILENT)
BF(1,0,ACT_CHECK, transfer_mode, SILENT)
BF(3,2,ACT_CHECK, info_transfer_capability, SILENT)
BF(1,1,ACT_CHECK, ext4, SILENT)

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BF(1,1,ACT_CHECK,    compression,    SILENT)
BF(2,0,ACT_CHECK,    structure,        SILENT)
BF(1,1,ACT_CHECK,    duplex_mode,      SILENT)
BF(1,0,ACT_CHECK,    configuration,     SILENT)
BF(1,0,ACT_CHECK,    NIRR,             SILENT)
BF(1,0,ACT_CHECK,    establishment,     SILENT)
BF(1,1,ACT_CHECK,    ext5,             SILENT)
BF(2,1,ACT_CHECK,    access_identifier, SILENT)
BF(2,0,ACT_CHECK,    rate_adaption,     SILENT)
BF(3,1,ACT_CHECK,    access_protocol,   SILENT)
BF(1,0,ACT_CHECK,    ext6,             SILENT)
BF(2,1,ACT_CHECK,    layer_1,           SILENT)
BF(4,0,ACT_CHECK,    default_layer_1,   SILENT)
BF(1,1,ACT_CHECK,    sync_async,        SILENT)
BF(1,0,ACT_CHECK,    ext6a,            SILENT)
BF(1,0,ACT_CHECK,    stop_bits,         SILENT)
BF(1,0,ACT_CHECK,    negotiation,       SILENT)
BF(1,1,ACT_CHECK,    data_bits,         SILENT)
BF(4,3,ACT_CHECK,    user_rate,         SILENT)
BF(1,0,ACT_CHECK,    ext6b,            SILENT)
BF(2,3,ACT_CHECK,    intermediate_rate, SILENT)
BF(1,0,ACT_CHECK,    NIC_TX,            SILENT)
BF(1,0,ACT_CHECK,    NIC_RX,            SILENT)
BF(3,3,ACT_CHECK,    parity,            SILENT)
BF(1,1,ACT_CHECK,    ext6c,            SILENT)
BF(2,1,ACT_CHECK,    connection_element, SILENT)
BF(5,3,ACT_CHECK,    modem_type,        SILENT)
IE_END(bearer_capability_data)

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IE_BEGIN(bearer_capability_ts_61)
BF(8,7,ACT_CHECK,    length,            SILENT)
BF(1,1,ACT_CHECK,    ext3,              SILENT)
BF(2,0,ACT_CHECK,    radio_channel_requirement, SILENT)
BF(1,0,ACT_CHECK,    coding_standard,    SILENT)
BF(1,0,ACT_CHECK,    transfer_mode,      SILENT)
BF(3,3,ACT_CHECK,    info_transfer_capability, SILENT)
BF(1,1,ACT_CHECK,    ext4,              SILENT)
BF(1,0,ACT_CHECK,    compression,        SILENT)
BF(2,3,ACT_CHECK,    structure,          SILENT)
BF(1,1,ACT_CHECK,    duplex_mode,        SILENT)
BF(1,0,ACT_CHECK,    configuration,       SILENT)
BF(1,0,ACT_CHECK,    NIRR,               SILENT)
BF(1,0,ACT_CHECK,    establishment,       SILENT)
BF(1,1,ACT_CHECK,    ext5,               SILENT)
BF(2,0,ACT_CHECK,    access_identifier,   SILENT)
BF(2,0,ACT_CHECK,    rate_adaption,       SILENT)
BF(3,1,ACT_CHECK,    access_protocol,     SILENT)
BF(1,0,ACT_CHECK,    ext6,               SILENT)
BF(2,1,ACT_CHECK,    layer_1,             SILENT)
BF(4,0,ACT_CHECK,    default_layer_1,     SILENT)
BF(1,0,ACT_CHECK,    sync_async,          SILENT)
BF(1,0,ACT_CHECK,    ext6a,              SILENT)
BF(1,0,ACT_CHECK,    stop_bits,           SILENT)
BF(1,0,ACT_CHECK,    negotiation,         SILENT)
BF(1,1,ACT_CHECK,    data_bits,           SILENT)
BF(4,3,ACT_CHECK,    user_rate,           SILENT)
BF(1,0,ACT_CHECK,    ext6b,              SILENT)
BF(2,2,ACT_CHECK,    intermediate_rate,   SILENT)
BF(1,0,ACT_CHECK,    NIC_TX,              SILENT)

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        BF(1,0,ACT_CHECK,    NIC_RX,                SILENT)
        BF(3,3,ACT_CHECK,    parity,                SILENT)
        BF(1,1,ACT_CHECK,    ext6c,                SILENT)
        BF(2,0,ACT_CHECK,    connection_element,    SILENT)
        BF(5,0,ACT_CHECK,    modem_type,            SILENT)
    IE_END(bearer_capability_ts_61)

    IE_BEGIN(bearer_capability_bs_61)
        BF(8,7,ACT_CHECK,    length,                SILENT)
        BF(1,1,ACT_CHECK,    ext3,                  SILENT)
        BF(2,0,ACT_CHECK,    radio_channel_requirement,SILENT)
        BF(1,0,ACT_CHECK,    coding_standard,        SILENT)
        BF(1,0,ACT_CHECK,    transfer_mode,          SILENT)
        BF(3,2,ACT_CHECK,    info_transfer_capability, SILENT)
        BF(1,1,ACT_CHECK,    ext4,                  SILENT)
        BF(1,0,ACT_CHECK,    compression,            SILENT)
        BF(2,3,ACT_CHECK,    structure,              SILENT)
        BF(1,1,ACT_CHECK,    duplex_mode,            SILENT)
        BF(1,0,ACT_CHECK,    configuration,          SILENT)
        BF(1,0,ACT_CHECK,    NIRR,                   SILENT)
        BF(1,0,ACT_CHECK,    establishment,          SILENT)
        BF(1,1,ACT_CHECK,    ext5,                  SILENT)
        BF(2,0,ACT_CHECK,    access_identifier,      SILENT)
        BF(2,0,ACT_CHECK,    rate_adaption,          SILENT)
        BF(3,1,ACT_CHECK,    access_protocol,        SILENT)
        BF(1,0,ACT_CHECK,    ext6,                  SILENT)
        BF(2,1,ACT_CHECK,    layer_1,                SILENT)
        BF(4,0,ACT_CHECK,    default_layer_1,        SILENT)
        BF(1,1,ACT_CHECK,    sync_async,             SILENT)
        BF(1,0,ACT_CHECK,    ext6a,                  SILENT)
        BF(1,0,ACT_CHECK,    stop_bits,              SILENT)
        BF(1,0,ACT_CHECK,    negotiation,            SILENT)
        BF(1,1,ACT_CHECK,    data_bits,              SILENT)
        BF(4,3,ACT_CHECK,    user_rate,              SILENT)
        BF(1,0,ACT_CHECK,    ext6b,                  SILENT)
        BF(2,2,ACT_CHECK,    intermediate_rate,      SILENT)
        BF(1,0,ACT_CHECK,    NIC_TX,                 SILENT)
        BF(1,0,ACT_CHECK,    NIC_RX,                 SILENT)
        BF(3,3,ACT_CHECK,    parity,                SILENT)
        BF(1,1,ACT_CHECK,    ext6c,                SILENT)
        BF(2,0,ACT_CHECK,    connection_element,    SILENT)
        BF(5,3,ACT_CHECK,    modem_type,            SILENT)
    IE_END(bearer_capability_bs_61)

    IE_BEGIN(cause_88)
        BF(8,                2,ACT_CHECK, length,"two octets")
        BF(1,                1,ACT_CHECK, ext_1,SILENT)
        BF(2,                3,ACT_CHECK, coding_standard, "GSM Standard")
        BF(1,                0,ACT_SHOW,  spare,SILENT)
        BF(4,                0,ACT_CHECK, location,"User")
        BF(1,                1,ACT_CHECK, ext_2,SILENT)
        BF(7,                88,ACT_CHECK, cause,"incompatible destination")
    IE_END(cause_88)

    IE_BEGIN(request_reference)
        BF(3,                M3(1,0,0),ACT_NOP,random_access_info,"As in CHAN REQ")
        BF(5,M5(1,1,1,1,1),ACT_NOP,  random_reference,SILENT)
        BF(5,                0,ACT_NOP,    t1_,SILENT)
        BF(6,                0,ACT_NOP,    t3_,SILENT)
        BF(5,                0,ACT_NOP,    t2_,SILENT)

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IE_END(request_reference)
IE_BEGIN(ciphering_key_sequence_number)
    BF(1, 0, ACT_CHECK, spare, SILENT)
    BF(3, M3(0,1,1), ACT_CHECK, key_sequence, "from SIM card (3)")
IE_END(ciphering_key_sequence_number)
IE_BEGIN(ciphering_key_sequence_number_none)
    BF(1, 0, ACT_CHECK, spare, SILENT)
    BF(3, M3(1,1,1), ACT_CHECK, key_sequence, "none")
IE_END(ciphering_key_sequence_number_none)

IE_BEGIN(authentication_parameter_rand)
    BF(32, 0x80000000, ACT_CHECK, rand_127_096, SILENT)
    BF(32, 0x00000012, ACT_CHECK, rand_095_064, SILENT)
    BF(32, 0x34000000, ACT_CHECK, rand_063_032, SILENT)
    BF(32, 0x0000000F, ACT_CHECK, rand_031_000, SILENT)
IE_END(authentication_parameter_rand)
IE_BEGIN(authentication_parameter_sres)
    BF(32, 0x0000000F, ACT_NOP, sres_031_000, SILENT)
IE_END(authentication_parameter_sres)
IE_BEGIN(ciphering_key_sequence_number_2)
    BF(1, 0, ACT_CHECK, spare, SILENT)
    BF(3, M3(0,1,0), ACT_CHECK, key_sequence, "sent BS->MS")
IE_END(ciphering_key_sequence_number_2)
IE_BEGIN(ciphering_mode_setting)
    BF(3, M3(0,0,0), ACT_CHECK, algorithm_identifier, "A5/1")
    BF(1, 1, ACT_CHECK, start_ciphering, "Start ciphering")
IE_END(ciphering_mode_setting)
IE_BEGIN(cipher_response)
    BF(3, 0, ACT_CHECK, spare, SILENT)
    BF(1, 0, ACT_CHECK, cipher_response, "IMEISV shall not be included")
IE_END(cipher_response)
IE_BEGIN(ms_classmark)
    BF(8, 3, ACT_CHECK, length, SILENT)
    BF(1, 0, ACT_CHECK, spare, SILENT)
    BF(2, M2(0,1), ACT_CHECK, revision_level, "phase 2 MS")
    BF(1, 1, ACT_CHECK, es_ind, "Contr. Early Classmark Send.")
    BF(1, 0, ACT_CHECK, a5_1, "encryption algorithm A5/1 available")
    BF(3, M3(0,0,1), ACT_CHECK, rf_power_capability, "class 2")
    BF(1, 0, ACT_CHECK, spare2, SILENT)
    BF(1, 1, ACT_CHECK, ps_capability, SILENT)
    BF(2, M2(1,1), ACT_CHECK, ss_screening_indicator, SILENT)
    BF(1, 1, ACT_CHECK, sm_capability, "point to point SMS")
    BF(1, 0, ACT_CHECK, vbs, "no VBS cap. or no notific. wanted")
    BF(1, 0, ACT_CHECK, vgcs, "no VGCS cap. or no notific. wanted")
    BF(1, 0, ACT_CHECK, frequency_capability, "no extention band G1")
    BF(1, 0, ACT_CHECK, classmark_3, "add. MS cap. information")
    BF(5, 1, ACT_CHECK, spare3, SILENT)
    BF(1, 0, ACT_CHECK, a5_3, "A5/3 not available")
    BF(1, 0, ACT_CHECK, a5_2, "A5/2 not available")
IE_END(ms_classmark)

IE_BEGIN( mobile_station_classmark_1)
    BF( 1, 0, ACT_CHECK, ANONYMOUS, "spare")
    BF( 2, M2(0,1), ACT_CHECK, rev_lev, "Used by phase 2 MSs")
    BF( 1, 1, ACT_CHECK, es_ind, SILENT)
    BF( 1, 0, ACT_CHECK, a5_1, "algorithm A5/1 available")
    BF( 3, M3(0,0,1), ACT_CHECK, rf_pow_cap, "Class 2" )
IE_END( mobile_station_classmark_1)

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IE_BEGIN(mobile_allocation)
    BF(8,0,ACT_CHECK,length,"length 0 due to hopping disabled")
IE_END(mobile_allocation)
IE_BEGIN(ia_rest_octets)    /* maximum length (11), no hop, no start time */
    BF(8,REST_OCTET,ACT_CHECK,ANONYMOUS,SILENT) /* 0 */
    BF(8,REST_OCTET,ACT_CHECK,ANONYMOUS,SILENT) /* 1 */
    BF(8,REST_OCTET,ACT_CHECK,ANONYMOUS,SILENT) /* 2 */
    BF(8,REST_OCTET,ACT_CHECK,ANONYMOUS,SILENT) /* 3 */
    BF(8,REST_OCTET,ACT_CHECK,ANONYMOUS,SILENT) /* 4 */
    BF(8,REST_OCTET,ACT_CHECK,ANONYMOUS,SILENT) /* 5 */
    BF(8,REST_OCTET,ACT_CHECK,ANONYMOUS,SILENT) /* 6 */
    BF(8,REST_OCTET,ACT_CHECK,ANONYMOUS,SILENT) /* 7 */
    BF(8,REST_OCTET,ACT_CHECK,ANONYMOUS,SILENT) /* 8 */
    BF(8,REST_OCTET,ACT_CHECK,ANONYMOUS,SILENT) /* 9 */
    BF(8,REST_OCTET,ACT_CHECK,ANONYMOUS,SILENT) /* 10 */
IE_END(ia_rest_octets)

IE_BEGIN(channel_description)
    BF( 5,M5(0,0,1,0,1),ACT_CHECK, channel_type,"SDCCH/SACCH 4(1) ")
    BF( 3,                0,ACT_CHECK, time_slot_number,"zero")
    BF( 3,                BCC,ACT_CHECK, training_sequence_code,"same as BCCH")
    BF( 1,                0,ACT_CHECK, hopping,"No")
    BF( 2,                0,ACT_CHECK, spare,SILENT)
    BF(10, ARFCN_BCCH,ACT_CHECK, arfcn,"ARFCN of the BCCH")
IE_END(channel_description)

IE_BEGIN(channel_description_tch)
    BF( 5,M5(0,0,0,0,1),ACT_CHECK,          channel_type,"TCH Full Rate")
    BF( 3,                0,ACT_CHECK,          time_slot_number,"zero      ")
    BF( 3,                BCC,ACT_CHECK,          tsc      ,"same as BCCH      ")
    BF( 1,                0,ACT_CHECK,          hopping,"No          ")
    BF( 2,                0,ACT_CHECK,          spare,SILENT          )
    BF(10, ARFCN_BCCH,ACT_CHECK,          arfcn,"ARFCN of the BCCH      ")
IE_END(channel_description_tch)

IE_BEGIN(mobility_management_protocol_discriminator)
    BF(4, 5,ACT_CHECK,ANONYMOUS,SILENT)
IE_END(mobility_management_protocol_discriminator)

IE_BEGIN(identity_type)
    BF(4,1,ACT_CHECK, type_of_identity,"IMSI")
IE_END(identity_type)

IE_BEGIN(cm_service_type_moc)
    BF(4,M4(0,0,0,1),ACT_CHECK,service_type,"mobile originated call")
IE_END(cm_service_type_moc)

IE_BEGIN(authentication_request_message_type)
    BF(1,    0,ACT_CHECK,ANONYMOUS,SILENT)
    BF(1,    0,ACT_SHOW, ANONYMOUS,SILENT)
    BF(6, 0x12,ACT_CHECK,ANONYMOUS,SILENT)
IE_END(authentication_request_message_type)

IE_BEGIN(cm_service_request_message_type)
    BF(1,    0,ACT_CHECK,ANONYMOUS,SILENT)
    BF(1,    0,ACT_SHOW, ANONYMOUS,SILENT)
    BF(6, 0x24,ACT_CHECK,ANONYMOUS,SILENT)
IE_END(cm_service_request_message_type)

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IE_BEGIN(identity_request_message_type)
    BF(1, 0, ACT_CHECK, ANONYMOUS, SILENT)
    BF(1, 0, ACT_SHOW, ANONYMOUS, SILENT)
    BF(6, 0x18, ACT_CHECK, ANONYMOUS, SILENT)
IE_END(identity_request_message_type)

IE_BEGIN(identity_response_message_type)
    BF(1, 0, ACT_CHECK, ANONYMOUS, SILENT)
    BF(1, 0, ACT_SHOW, ANONYMOUS, SILENT)
    BF(6, 0x19, ACT_CHECK, ANONYMOUS, SILENT)
IE_END(identity_response_message_type)

IE_BEGIN(identity_response_0_message_type)
    BF(1, 0, ACT_CHECK, ANONYMOUS, SILENT)
    BF(1, 0, ACT_CHECK, ANONYMOUS, SILENT)
    BF(6, 0x19, ACT_CHECK, ANONYMOUS, SILENT)
IE_END(identity_response_0_message_type)

IE_BEGIN(identity_response_1_message_type)
    BF(1, 0, ACT_CHECK, ANONYMOUS, SILENT)
    BF(1, 1, ACT_CHECK, ANONYMOUS, SILENT)
    BF(6, 0x19, ACT_CHECK, ANONYMOUS, SILENT)
IE_END(identity_response_1_message_type)

IE_BEGIN(rach_reest)
    BF(3, M3(1,1,0), ACT_CHECK, establishment_cause, "LUP")
    BF(5, M5(1,1,1,1,1), ACT_NOP, random_reference, "ignore Random Ref.")
IE_END(rach_reest)
IE_BEGIN(rach_ec)
    BF(3, M3(1,0,1), ACT_CHECK, establishment_cause, "EC")
    BF(5, M5(1,1,1,1,1), ACT_NOP, random_reference, "ignore Random Ref.")
IE_END(rach_ec)
IE_BEGIN(rach_detach_111)
    BF(3, M3(1,1,1), ACT_CHECK, establishment_cause, "LUP")
    BF(5, M5(1,1,1,1,1), ACT_NOP, random_reference, "ignore Random Ref.")
IE_END(rach_detach_111)
IE_BEGIN(rach_111)
    BF(3, M3(1,1,1), ACT_CHECK, establishment_cause, "SS")
    BF(5, M5(1,1,1,1,1), ACT_NOP, random_reference, "ignore Random Ref.")
IE_END(rach_111)
IE_BEGIN(rach_lup_000)
    BF(3, M3(0,0,0), ACT_CHECK, establishment_cause, "LUP")
    BF(5, M5(1,1,1,1,1), ACT_NOP, random_reference, "ignore Random Ref.")
IE_END(rach_lup_000)
IE_BEGIN(rach_detach_0001)
    BF(4, M4(0,0,0,1), ACT_CHECK, establishment_cause, "LUP")
    BF(4, M4(1,1,1,1), ACT_NOP, random_reference, "ignore Random Ref.")
IE_END(rach_detach_0001)
IE_BEGIN(rach_lup_0000)
    BF(4, M4(0,0,0,0), ACT_CHECK, establishment_cause, "LUP")
    BF(4, M4(1,1,1,1), ACT_NOP, random_reference, "ignore Random Ref.")
IE_END(rach_lup_0000)
IE_BEGIN(rach_moc)
    BF(3, M3(1,1,1), ACT_CHECK, establishment_cause, "MOC & TCH/F")
    BF(5, M5(1,1,1,1,1), ACT_NOP, random_reference, "ignore Random Ref.")
IE_END(rach_moc)
IE_BEGIN(rach)
    BF(3, M3(1,0,0), ACT_CHECK, establishment_cause, "paging ind. any chan'")
    BF(5, M5(1,1,1,1,1), ACT_NOP, random_reference, "ignore Random Ref.")
IE_END(rach)
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IE_BEGIN(rach_0001)
    BF(4,M4(0,0,0,1),ACT_CHECK ,establishment_cause,"paging ind. sdcch'")
    BF(4,M4(1,1,1,1),ACT_NOP,    random_reference,"ignore Random Ref.")
IE_END(rach_0001)
IE_BEGIN(spare_half_octet)
    BF(4, 0,ACT_CHECK,ANONYMOUS,SILENT)
IE_END(spare_half_octet)

IE_BEGIN(timing_advance)
    BF(2,0,ACT_CHECK,    spare,SILENT)
    BF(6,0,ACT_CHECK,timing_advance,"0"    )
IE_END(timing_advance)
IE_BEGIN(pl_rest_octets)
/* pag. req. type1 : 22 - 11 (L2 pseud. len) = 11 bytes */
    BF(8,REST_OCTET,ACT_CHECK,ANONYMOUS,SILENT) /* 0 */
    BF(8,REST_OCTET,ACT_CHECK,ANONYMOUS,SILENT) /* 1 */
    BF(8,REST_OCTET,ACT_CHECK,ANONYMOUS,SILENT) /* 2 */
    BF(8,REST_OCTET,ACT_CHECK,ANONYMOUS,SILENT) /* 3 */
    BF(8,REST_OCTET,ACT_CHECK,ANONYMOUS,SILENT) /* 4 */
    BF(8,REST_OCTET,ACT_CHECK,ANONYMOUS,SILENT) /* 5 */
    BF(8,REST_OCTET,ACT_CHECK,ANONYMOUS,SILENT) /* 6 */
    BF(8,REST_OCTET,ACT_CHECK,ANONYMOUS,SILENT) /* 7 */
    BF(8,REST_OCTET,ACT_CHECK,ANONYMOUS,SILENT) /* 8 */
    BF(8,REST_OCTET,ACT_CHECK,ANONYMOUS,SILENT) /* 9 */
    BF(8,REST_OCTET,ACT_CHECK,ANONYMOUS,SILENT) /* 10 */
IE_END(pl_rest_octets)

IE_BEGIN(mobile_identity)          /* has 8 octets */
    BF(8,          7,ACT_CHECK, length,"seven octets to come")
    BF(4,          2,ACT_CHECK, digit_1,SILENT)
    BF(1,          1,ACT_CHECK,odd_even,SILENT)
    BF(3,  M3(0,0,1),ACT_CHECK,    type,"IMSI")
    BF(4,          2,ACT_CHECK, digit_3,SILENT)
    BF(4,          6,ACT_CHECK, digit_2,SILENT)
    BF(4,          1,ACT_CHECK, digit_4,SILENT)
    BF(4,          0,ACT_CHECK, digit_3,SILENT)
    BF(4,          7,ACT_CHECK, digit_6,SILENT)
    BF(4,          4,ACT_CHECK, digit_5,SILENT)
    BF(4,          1,ACT_CHECK, digit_8,SILENT)
    BF(4,          1,ACT_CHECK, digit_7,SILENT)
    BF(4,          9,ACT_CHECK, digit_10,SILENT)
    BF(4,          4,ACT_CHECK, digit_9,SILENT)
    BF(4,          2,ACT_CHECK, digit_12,SILENT)
    BF(4,          1,ACT_CHECK, digit_11,SILENT)
IE_END(mobile_identity)

IE_BEGIN(channels_needed_for mobiles_1_and_2)
    BF(2,0,ACT_CHECK,second_channel,"spare, any channel")
    BF(2,0,ACT_CHECK, first_channel,"spare, any channel")
IE_END(channels_needed_for mobiles_1_and_2)

IE_BEGIN(channels_needed_any_channel)
    BF(2,0,ACT_CHECK,second_channel,"spare, any channel")
    BF(2,0,ACT_CHECK, first_channel,"spare, any channel")
IE_END(channels_needed_any_channel)

IE_BEGIN(channels_needed_sdcch)
    BF(2,1,ACT_CHECK,second_channel,"sdcch")
    BF(2,1,ACT_CHECK, first_channel,"sdcch")
IE_END(channels_needed_sdcch)

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IE_BEGIN(channels_needed_tch_full)
    BF(2,2,ACT_CHECK,second_channel,"tch full")
    BF(2,2,ACT_CHECK, first_channel,"tch full")
IE_END(channels_needed_tch_full)

IE_BEGIN(channels_needed_tch_full_or_half)
    BF(2,3,ACT_CHECK,second_channel,"tch full or half")
    BF(2,3,ACT_CHECK, first_channel,"tch full or half")
IE_END(channels_needed_tch_full_or_half)

IE_BEGIN(transaction_identifier_dest)
    BF(4,M4(1,0,0,0),ACT_CHECK,ANONYMOUS,SILENT)
IE_END(transaction_identifier_dest)

IE_BEGIN(call_control_protocol_discriminator)
    BF(4, 3,ACT_CHECK,ANONYMOUS,SILENT)
IE_END(call_control_protocol_discriminator)

IE_BEGIN(l2_pseudo_length_11) /* pag req type 1 with TMSI (one mobile)*/
    BF(8, 0,ACT_CHECK,ANONYMOUS,SILENT)
IE_END(l2_pseudo_length_11)

IE_BEGIN(ncc_permitted)
    BF(8,0xFF,ACT_CHECK,ncc_permit,"e.g. all NCCs permitted")
IE_END(ncc_permitted)
IE_BEGIN(rach_control_parameter)
    BF( 2,0,ACT_CHECK,max_retrans , "Any Value ")
    BF( 4,0,ACT_CHECK,tx_integer , "Any Value ")
    BF( 1,0,ACT_CHECK,cell_bar_access , "Not barred ")
    BF( 1,1,ACT_CHECK,call_re_establishment , "Not Allowed")
    BF( 5,0,ACT_CHECK,access_control_class_15_11 , "None Barred")
    BF( 1,0,ACT_CHECK,emergency_call , "Allowed ")
    BF(10,0,ACT_CHECK,access_control_class_09_00 , "None Barred")
IE_END(rach_control_parameter)

IE_BEGIN(rach_control_parameter_reest)
    BF( 2,0,ACT_CHECK,max_retrans , "Any Value ")
    BF( 4,0,ACT_CHECK,tx_integer , "Any Value ")
    BF( 1,0,ACT_CHECK,cell_bar_access , "Not barred ")
    BF( 1,0,ACT_CHECK,call_re_establishment , "Allowed")
    BF( 5,0,ACT_CHECK,access_control_class_15_11 , "None Barred")
    BF( 1,0,ACT_CHECK,emergency_call , "Allowed ")
    BF(10,0,ACT_CHECK,access_control_class_09_00 , "None Barred")
IE_END(rach_control_parameter_reest)

IE_BEGIN(rach_control_parameter_27_10_A)
    BF( 2,0,ACT_CHECK,max_retrans , "Any Value ")
    BF( 4,2,ACT_CHECK,tx_integer , "Any Value ")
    BF( 1,0,ACT_CHECK,cell_bar_access , "Not barred ")
    BF( 1,0,ACT_CHECK,call_re_establishment , "Allowed")
    BF( 8,0x04,ACT_CHECK,access_control_class_1 , SILENT)
    BF( 8,0x00,ACT_CHECK,access_control_class_2 , SILENT)
IE_END(rach_control_parameter_27_10_A)

IE_BEGIN(rach_control_parameter_27_10_B)
    BF( 2,0,ACT_CHECK,max_retrans , "Any Value ")
    BF( 4,2,ACT_CHECK,tx_integer , "Any Value ")
    BF( 1,0,ACT_CHECK,cell_bar_access , "Not barred ")
    BF( 1,0,ACT_CHECK,call_re_establishment , "Allowed")

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        BF( 8,0x00,ACT_CHECK,access_control_class_1 ,SILENT)
        BF( 8,0x00,ACT_CHECK,access_control_class_2 ,SILENT)
    IE_END(rach_control_parameter_27_10_B)

    IE_BEGIN(rach_control_parameter_27_10_C)
        BF( 2,0,ACT_CHECK,max_retrans , "Any Value ")
        BF( 4,2,ACT_CHECK,tx_integer , "Any Value ")
        BF( 1,0,ACT_CHECK,cell_bar_access , "Not barred ")
        BF( 1,0,ACT_CHECK,call_re_establishment , "Allowed")
        BF( 8,0x04,ACT_CHECK,access_control_class_1 ,SILENT)
        BF( 8,0x10,ACT_CHECK,access_control_class_2 ,SILENT)
    IE_END(rach_control_parameter_27_10_C)

    IE_BEGIN(rach_control_parameter_27_10_D)
        BF( 2,0,ACT_CHECK,max_retrans , "Any Value ")
        BF( 4,2,ACT_CHECK,tx_integer , "Any Value ")
        BF( 1,0,ACT_CHECK,cell_bar_access , "Not barred ")
        BF( 1,0,ACT_CHECK,call_re_establishment , "Allowed")
        BF( 8,0x00,ACT_CHECK,access_control_class_1 ,SILENT)
        BF( 8,0x40,ACT_CHECK,access_control_class_2 ,SILENT)
    IE_END(rach_control_parameter_27_10_D)

    IE_BEGIN(rach_control_parameter_27_10_E)
        BF( 2,0,ACT_CHECK,max_retrans , "Any Value ")
        BF( 4,2,ACT_CHECK,tx_integer , "Any Value ")
        BF( 1,0,ACT_CHECK,cell_bar_access , "Not barred ")
        BF( 1,0,ACT_CHECK,call_re_establishment , "Allowed")
        BF( 8,0xFB,ACT_CHECK,access_control_class_1 ,SILENT)
        BF( 8,0xF7,ACT_CHECK,access_control_class_2 ,SILENT)
    IE_END(rach_control_parameter_27_10_E)

    IE_BEGIN(rach_control_parameter_27_10_F_1)
        BF( 2,0,ACT_CHECK,max_retrans , "Any Value ")
        BF( 4,2,ACT_CHECK,tx_integer , "Any Value ")
        BF( 1,0,ACT_CHECK,cell_bar_access , "Not barred ")
        BF( 1,0,ACT_CHECK,call_re_establishment , "Allowed")
        BF( 8,0x07,ACT_CHECK,access_control_class_1 ,SILENT)
        BF( 8,0xFF,ACT_CHECK,access_control_class_2 ,SILENT)
    IE_END(rach_control_parameter_27_10_F_1)

    IE_BEGIN(rach_control_parameter_27_10_F_2)
        BF( 2,0,ACT_CHECK,max_retrans , "Any Value ")
        BF( 4,2,ACT_CHECK,tx_integer , "Any Value ")
        BF( 1,0,ACT_CHECK,cell_bar_access , "Not barred ")
        BF( 1,0,ACT_CHECK,call_re_establishment , "Allowed")
        BF( 8,0x03,ACT_CHECK,access_control_class_1 ,SILENT)
        BF( 8,0xFF,ACT_CHECK,access_control_class_2 ,SILENT)
    IE_END(rach_control_parameter_27_10_F_2)

    IE_BEGIN(rach_control_parameter_27_10_F_3)
        BF( 2,0,ACT_CHECK,max_retrans , "Any Value ")
        BF( 4,2,ACT_CHECK,tx_integer , "Any Value ")
        BF( 1,0,ACT_CHECK,cell_bar_access , "Not barred ")
        BF( 1,0,ACT_CHECK,call_re_establishment , "Allowed")
        BF( 8,0x00,ACT_CHECK,access_control_class_1 ,SILENT)
        BF( 8,0x00,ACT_CHECK,access_control_class_2 ,SILENT)
    IE_END(rach_control_parameter_27_10_F_3)

    IE_BEGIN(rach_control_parameter_27_10_F_4)
        BF( 2,0,ACT_CHECK,max_retrans , "Any Value ")

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        BF( 4,2,ACT_CHECK,tx_integer           ,"Any Value  ")
        BF( 1,0,ACT_CHECK,cell_bar_access       ,"Not barred ")
        BF( 1,0,ACT_CHECK,call_re_establishment ,"Allowed")
        BF( 8,0x07,ACT_CHECK,access_control_class_1,SILENT)
        BF( 8,0xFF,ACT_CHECK,access_control_class_2,SILENT)
    IE_END(rach_control_parameter_27_10_F_4)

    IE_BEGIN(rach_control_parameter_27_10_F_5)
        BF( 2,0,ACT_CHECK,max_retrans           ,"Any Value  ")
        BF( 4,2,ACT_CHECK,tx_integer           ,"Any Value  ")
        BF( 1,0,ACT_CHECK,cell_bar_access       ,"Not barred ")
        BF( 1,0,ACT_CHECK,call_re_establishment ,"Allowed")
        BF( 8,0x03,ACT_CHECK,access_control_class_1,SILENT)
        BF( 8,0xFF,ACT_CHECK,access_control_class_2,SILENT)
    IE_END(rach_control_parameter_27_10_F_5)

    IE_BEGIN(rach_control_parameter_27_10_F_6)
        BF( 2,0,ACT_CHECK,max_retrans           ,"Any Value  ")
        BF( 4,2,ACT_CHECK,tx_integer           ,"Any Value  ")
        BF( 1,0,ACT_CHECK,cell_bar_access       ,"Not barred ")
        BF( 1,0,ACT_CHECK,call_re_establishment ,"Allowed")
        BF( 8,0x00,ACT_CHECK,access_control_class_1,SILENT)
        BF( 8,0x00,ACT_CHECK,access_control_class_2,SILENT)
    IE_END(rach_control_parameter_27_10_F_6)

    IE_BEGIN(rach_control_parameter_27_10_F_7)
        BF( 2,0,ACT_CHECK,max_retrans           ,"Any Value  ")
        BF( 4,2,ACT_CHECK,tx_integer           ,"Any Value  ")
        BF( 1,0,ACT_CHECK,cell_bar_access       ,"Not barred ")
        BF( 1,0,ACT_CHECK,call_re_establishment ,"Allowed")
        BF( 8,0x07,ACT_CHECK,access_control_class_1,SILENT)
        BF( 8,0xFF,ACT_CHECK,access_control_class_2,SILENT)
    IE_END(rach_control_parameter_27_10_F_7)

    IE_BEGIN(rach_control_parameter_27_10_F_8)
        BF( 2,0,ACT_CHECK,max_retrans           ,"Any Value  ")
        BF( 4,2,ACT_CHECK,tx_integer           ,"Any Value  ")
        BF( 1,0,ACT_CHECK,cell_bar_access       ,"Not barred ")
        BF( 1,0,ACT_CHECK,call_re_establishment ,"Allowed")
        BF( 8,0x03,ACT_CHECK,access_control_class_1,SILENT)
        BF( 8,0xFF,ACT_CHECK,access_control_class_2,SILENT)
    IE_END(rach_control_parameter_27_10_F_8)

    IE_BEGIN(rach_control_parameter_27_10_F_9)
        BF( 2,0,ACT_CHECK,max_retrans           ,"Any Value  ")
        BF( 4,2,ACT_CHECK,tx_integer           ,"Any Value  ")
        BF( 1,0,ACT_CHECK,cell_bar_access       ,"Not barred ")
        BF( 1,0,ACT_CHECK,call_re_establishment ,"Allowed")
        BF( 8,0x00,ACT_CHECK,access_control_class_1,SILENT)
        BF( 8,0x00,ACT_CHECK,access_control_class_2,SILENT)
    IE_END(rach_control_parameter_27_10_F_9)

    IE_BEGIN(rach_control_parameter_27_10_F_10)
        BF( 2,0,ACT_CHECK,max_retrans           ,"Any Value  ")
        BF( 4,2,ACT_CHECK,tx_integer           ,"Any Value  ")
        BF( 1,0,ACT_CHECK,cell_bar_access       ,"Not barred ")
        BF( 1,0,ACT_CHECK,call_re_establishment ,"Allowed")
        BF( 8,0x07,ACT_CHECK,access_control_class_1,SILENT)
        BF( 8,0xFF,ACT_CHECK,access_control_class_2,SILENT)
    IE_END(rach_control_parameter_27_10_F_10)

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IE_BEGIN(rach_control_parameter_27_10_F_11)
    BF( 2,0,ACT_CHECK,max_retrans           ,"Any Value  ")
    BF( 4,2,ACT_CHECK,tx_integer             ,"Any Value  ")
    BF( 1,0,ACT_CHECK,cell_bar_access        ,"Not barred ")
    BF( 1,0,ACT_CHECK,call_re_establishment  ,"Allowed")
    BF( 8,0x03,ACT_CHECK,access_control_class_1,SILENT)
    BF( 8,0xFF,ACT_CHECK,access_control_class_2,SILENT)
IE_END(rach_control_parameter_27_10_F_11)

IE_BEGIN(rach_control_parameter_27_10_F_12)
    BF( 2,0,ACT_CHECK,max_retrans           ,"Any Value  ")
    BF( 4,2,ACT_CHECK,tx_integer             ,"Any Value  ")
    BF( 1,0,ACT_CHECK,cell_bar_access        ,"Not barred ")
    BF( 1,0,ACT_CHECK,call_re_establishment  ,"Allowed")
    BF( 8,0x00,ACT_CHECK,access_control_class_1,SILENT)
    BF( 8,0x00,ACT_CHECK,access_control_class_2,SILENT)
IE_END(rach_control_parameter_27_10_F_12)

IE_BEGIN(rach_control_parameter_27_10_F_13)
    BF( 2,0,ACT_CHECK,max_retrans           ,"Any Value  ")
    BF( 4,2,ACT_CHECK,tx_integer             ,"Any Value  ")
    BF( 1,0,ACT_CHECK,cell_bar_access        ,"Not barred ")
    BF( 1,0,ACT_CHECK,call_re_establishment  ,"Allowed")
    BF( 8,0x07,ACT_CHECK,access_control_class_1,SILENT)
    BF( 8,0xFF,ACT_CHECK,access_control_class_2,SILENT)
IE_END(rach_control_parameter_27_10_F_13)

IE_BEGIN(rach_control_parameter_27_10_F_14)
    BF( 2,0,ACT_CHECK,max_retrans           ,"Any Value  ")
    BF( 4,2,ACT_CHECK,tx_integer             ,"Any Value  ")
    BF( 1,0,ACT_CHECK,cell_bar_access        ,"Not barred ")
    BF( 1,0,ACT_CHECK,call_re_establishment  ,"Allowed")
    BF( 8,0x03,ACT_CHECK,access_control_class_1,SILENT)
    BF( 8,0xFF,ACT_CHECK,access_control_class_2,SILENT)
IE_END(rach_control_parameter_27_10_F_14)

IE_BEGIN(rach_control_parameter_27_10_F_15)
    BF( 2,0,ACT_CHECK,max_retrans           ,"Any Value  ")
    BF( 4,2,ACT_CHECK,tx_integer             ,"Any Value  ")
    BF( 1,0,ACT_CHECK,cell_bar_access        ,"Not barred ")
    BF( 1,0,ACT_CHECK,call_re_establishment  ,"Allowed")
    BF( 8,0x00,ACT_CHECK,access_control_class_1,SILENT)
    BF( 8,0x00,ACT_CHECK,access_control_class_2,SILENT)
IE_END(rach_control_parameter_27_10_F_15)

IE_BEGIN(rach_control_parameter_27_10_G_1)
    BF( 2,0,ACT_CHECK,max_retrans           ,"Any Value  ")
    BF( 4,2,ACT_CHECK,tx_integer             ,"Any Value  ")
    BF( 1,0,ACT_CHECK,cell_bar_access        ,"Not barred ")
    BF( 1,0,ACT_CHECK,call_re_establishment  ,"Allowed")
    BF( 8,0x0F,ACT_CHECK,access_control_class_1,SILENT)
    BF( 8,0xFF,ACT_CHECK,access_control_class_2,SILENT)
IE_END(rach_control_parameter_27_10_G_1)

IE_BEGIN(rach_control_parameter_27_10_G_2)
    BF( 2,0,ACT_CHECK,max_retrans           ,"Any Value  ")
    BF( 4,2,ACT_CHECK,tx_integer             ,"Any Value  ")
    BF( 1,0,ACT_CHECK,cell_bar_access        ,"Not barred ")
    BF( 1,0,ACT_CHECK,call_re_establishment  ,"Allowed")

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        BF( 8,0x0B,ACT_CHECK,access_control_class_1 ,SILENT)
        BF( 8,0xFF,ACT_CHECK,access_control_class_2 ,SILENT)
    IE_END(rach_control_parameter_27_10_G_2)

    IE_BEGIN(rach_control_parameter_27_10_G_3)
        BF( 2,0,ACT_CHECK,max_retrans , "Any Value ")
        BF( 4,2,ACT_CHECK,tx_integer , "Any Value ")
        BF( 1,0,ACT_CHECK,cell_bar_access , "Not barred ")
        BF( 1,0,ACT_CHECK,call_re_establishment , "Allowed")
        BF( 8,0x17,ACT_CHECK,access_control_class_1 ,SILENT)
        BF( 8,0xFF,ACT_CHECK,access_control_class_2 ,SILENT)
    IE_END(rach_control_parameter_27_10_G_3)

    IE_BEGIN(rach_control_parameter_27_10_G_4)
        BF( 2,0,ACT_CHECK,max_retrans , "Any Value ")
        BF( 4,2,ACT_CHECK,tx_integer , "Any Value ")
        BF( 1,0,ACT_CHECK,cell_bar_access , "Not barred ")
        BF( 1,0,ACT_CHECK,call_re_establishment , "Allowed")
        BF( 8,0x13,ACT_CHECK,access_control_class_1 ,SILENT)
        BF( 8,0xFF,ACT_CHECK,access_control_class_2 ,SILENT)
    IE_END(rach_control_parameter_27_10_G_4)

    IE_BEGIN(rach_control_parameter_27_10_G_5)
        BF( 2,0,ACT_CHECK,max_retrans , "Any Value ")
        BF( 4,2,ACT_CHECK,tx_integer , "Any Value ")
        BF( 1,0,ACT_CHECK,cell_bar_access , "Not barred ")
        BF( 1,0,ACT_CHECK,call_re_establishment , "Allowed")
        BF( 8,0x27,ACT_CHECK,access_control_class_1 ,SILENT)
        BF( 8,0xFF,ACT_CHECK,access_control_class_2 ,SILENT)
    IE_END(rach_control_parameter_27_10_G_5)

    IE_BEGIN(rach_control_parameter_27_10_G_6)
        BF( 2,0,ACT_CHECK,max_retrans , "Any Value ")
        BF( 4,2,ACT_CHECK,tx_integer , "Any Value ")
        BF( 1,0,ACT_CHECK,cell_bar_access , "Not barred ")
        BF( 1,0,ACT_CHECK,call_re_establishment , "Allowed")
        BF( 8,0x23,ACT_CHECK,access_control_class_1 ,SILENT)
        BF( 8,0xFF,ACT_CHECK,access_control_class_2 ,SILENT)
    IE_END(rach_control_parameter_27_10_G_6)

    IE_BEGIN(rach_control_parameter_27_10_G_7)
        BF( 2,0,ACT_CHECK,max_retrans , "Any Value ")
        BF( 4,2,ACT_CHECK,tx_integer , "Any Value ")
        BF( 1,0,ACT_CHECK,cell_bar_access , "Not barred ")
        BF( 1,0,ACT_CHECK,call_re_establishment , "Allowed")
        BF( 8,0x47,ACT_CHECK,access_control_class_1 ,SILENT)
        BF( 8,0xFF,ACT_CHECK,access_control_class_2 ,SILENT)
    IE_END(rach_control_parameter_27_10_G_7)

    IE_BEGIN(rach_control_parameter_27_10_G_8)
        BF( 2,0,ACT_CHECK,max_retrans , "Any Value ")
        BF( 4,2,ACT_CHECK,tx_integer , "Any Value ")
        BF( 1,0,ACT_CHECK,cell_bar_access , "Not barred ")
        BF( 1,0,ACT_CHECK,call_re_establishment , "Allowed")
        BF( 8,0x43,ACT_CHECK,access_control_class_1 ,SILENT)
        BF( 8,0xFF,ACT_CHECK,access_control_class_2 ,SILENT)
    IE_END(rach_control_parameter_27_10_G_8)

    IE_BEGIN(rach_control_parameter_27_10_G_9)
        BF( 2,0,ACT_CHECK,max_retrans , "Any Value ")

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        BF( 4,2,ACT_CHECK,tx_integer           ,"Any Value  ")
        BF( 1,0,ACT_CHECK,cell_bar_access       ,"Not barred ")
        BF( 1,0,ACT_CHECK,call_re_establishment ,"Allowed")
        BF( 8,0x87,ACT_CHECK,access_control_class_1,SILENT)
        BF( 8,0xFF,ACT_CHECK,access_control_class_2,SILENT)
    IE_END(rach_control_parameter_27_10_G_9)

    IE_BEGIN(rach_control_parameter_27_10_G_10)
        BF( 2,0,ACT_CHECK,max_retrans          ,"Any Value  ")
        BF( 4,2,ACT_CHECK,tx_integer           ,"Any Value  ")
        BF( 1,0,ACT_CHECK,cell_bar_access       ,"Not barred ")
        BF( 1,0,ACT_CHECK,call_re_establishment ,"Allowed")
        BF( 8,0x83,ACT_CHECK,access_control_class_1,SILENT)
        BF( 8,0xFF,ACT_CHECK,access_control_class_2,SILENT)
    IE_END(rach_control_parameter_27_10_G_10)

    IE_BEGIN(rach_control_parameter_27_10_H_1)
        BF( 2,0,ACT_CHECK,max_retrans          ,"Any Value  ")
        BF( 4,2,ACT_CHECK,tx_integer           ,"Any Value  ")
        BF( 1,0,ACT_CHECK,cell_bar_access       ,"Not barred ")
        BF( 1,0,ACT_CHECK,call_re_establishment ,"Allowed")
        BF( 8,0xF3,ACT_CHECK,access_control_class_1,SILENT)
        BF( 8,0xFF,ACT_CHECK,access_control_class_2,SILENT)
    IE_END(rach_control_parameter_27_10_H_1)

    IE_BEGIN(rach_control_parameter_27_10_H_2)
        BF( 2,0,ACT_CHECK,max_retrans          ,"Any Value  ")
        BF( 4,2,ACT_CHECK,tx_integer           ,"Any Value  ")
        BF( 1,0,ACT_CHECK,cell_bar_access       ,"Not barred ")
        BF( 1,0,ACT_CHECK,call_re_establishment ,"Allowed")
        BF( 8,0xEB,ACT_CHECK,access_control_class_1,SILENT)
        BF( 8,0xFF,ACT_CHECK,access_control_class_2,SILENT)
    IE_END(rach_control_parameter_27_10_H_2)

    IE_BEGIN(rach_control_parameter_27_10_H_3)
        BF( 2,0,ACT_CHECK,max_retrans          ,"Any Value  ")
        BF( 4,2,ACT_CHECK,tx_integer           ,"Any Value  ")
        BF( 1,0,ACT_CHECK,cell_bar_access       ,"Not barred ")
        BF( 1,0,ACT_CHECK,call_re_establishment ,"Allowed")
        BF( 8,0xDB,ACT_CHECK,access_control_class_1,SILENT)
        BF( 8,0xFF,ACT_CHECK,access_control_class_2,SILENT)
    IE_END(rach_control_parameter_27_10_H_3)

    IE_BEGIN(rach_control_parameter_27_10_H_4)
        BF( 2,0,ACT_CHECK,max_retrans          ,"Any Value  ")
        BF( 4,2,ACT_CHECK,tx_integer           ,"Any Value  ")
        BF( 1,0,ACT_CHECK,cell_bar_access       ,"Not barred ")
        BF( 1,0,ACT_CHECK,call_re_establishment ,"Allowed")
        BF( 8,0xBB,ACT_CHECK,access_control_class_1,SILENT)
        BF( 8,0xFF,ACT_CHECK,access_control_class_2,SILENT)
    IE_END(rach_control_parameter_27_10_H_4)

    IE_BEGIN(rach_control_parameter_27_10_H_5)
        BF( 2,0,ACT_CHECK,max_retrans          ,"Any Value  ")
        BF( 4,2,ACT_CHECK,tx_integer           ,"Any Value  ")
        BF( 1,0,ACT_CHECK,cell_bar_access       ,"Not barred ")
        BF( 1,0,ACT_CHECK,call_re_establishment ,"Allowed")
        BF( 8,0x7B,ACT_CHECK,access_control_class_1,SILENT)
        BF( 8,0xFF,ACT_CHECK,access_control_class_2,SILENT)
    IE_END(rach_control_parameter_27_10_H_5)

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IE_BEGIN(rach_control_parameter_27_10_H_6)
    BF( 2,0,ACT_CHECK,max_retrans           ,"Any Value  ")
    BF( 4,2,ACT_CHECK,tx_integer             ,"Any Value  ")
    BF( 1,0,ACT_CHECK,cell_bar_access        ,"Not barred ")
    BF( 1,0,ACT_CHECK,call_re_establishment  ,"Allowed")
    BF( 8,0xF7,ACT_CHECK,access_control_class_1,SILENT)
    BF( 8,0xFF,ACT_CHECK,access_control_class_2,SILENT)
IE_END(rach_control_parameter_27_10_H_6)

IE_BEGIN(rach_control_parameter_27_10_H_7)
    BF( 2,0,ACT_CHECK,max_retrans           ,"Any Value  ")
    BF( 4,2,ACT_CHECK,tx_integer             ,"Any Value  ")
    BF( 1,0,ACT_CHECK,cell_bar_access        ,"Not barred ")
    BF( 1,0,ACT_CHECK,call_re_establishment  ,"Allowed")
    BF( 8,0xEF,ACT_CHECK,access_control_class_1,SILENT)
    BF( 8,0xFF,ACT_CHECK,access_control_class_2,SILENT)
IE_END(rach_control_parameter_27_10_H_7)

IE_BEGIN(rach_control_parameter_27_10_H_8)
    BF( 2,0,ACT_CHECK,max_retrans           ,"Any Value  ")
    BF( 4,2,ACT_CHECK,tx_integer             ,"Any Value  ")
    BF( 1,0,ACT_CHECK,cell_bar_access        ,"Not barred ")
    BF( 1,0,ACT_CHECK,call_re_establishment  ,"Allowed")
    BF( 8,0xDF,ACT_CHECK,access_control_class_1,SILENT)
    BF( 8,0xFF,ACT_CHECK,access_control_class_2,SILENT)
IE_END(rach_control_parameter_27_10_H_8)

IE_BEGIN(rach_control_parameter_27_10_H_9)
    BF( 2,0,ACT_CHECK,max_retrans           ,"Any Value  ")
    BF( 4,2,ACT_CHECK,tx_integer             ,"Any Value  ")
    BF( 1,0,ACT_CHECK,cell_bar_access        ,"Not barred ")
    BF( 1,0,ACT_CHECK,call_re_establishment  ,"Allowed")
    BF( 8,0xBF,ACT_CHECK,access_control_class_1,SILENT)
    BF( 8,0xFF,ACT_CHECK,access_control_class_2,SILENT)
IE_END(rach_control_parameter_27_10_H_9)

IE_BEGIN(rach_control_parameter_27_10_H_10)
    BF( 2,0,ACT_CHECK,max_retrans           ,"Any Value  ")
    BF( 4,2,ACT_CHECK,tx_integer             ,"Any Value  ")
    BF( 1,0,ACT_CHECK,cell_bar_access        ,"Not barred ")
    BF( 1,0,ACT_CHECK,call_re_establishment  ,"Allowed")
    BF( 8,0x7F,ACT_CHECK,access_control_class_1,SILENT)
    BF( 8,0xFF,ACT_CHECK,access_control_class_2,SILENT)
IE_END(rach_control_parameter_27_10_H_10)

IE_BEGIN(rr_management_protocol_discriminator)
    BF(4, 6,ACT_CHECK,ANONYMOUS,SILENT)
IE_END(rr_management_protocol_discriminator)

IE_BEGIN(skip_indicator)
    BF(4, 0,ACT_CHECK,ANONYMOUS,SILENT)
IE_END(skip_indicator)

IE_BEGIN(si_1_rest_octets)
    BF(8,REST_OCTET,ACT_CHECK,ANONYMOUS,"Spare Octets")
IE_END(si_1_rest_octets)

IE_BEGIN(si_3_rest_octets) /* optionally contains cell (re)select params */
    BF(1,          0,ACT_CHECK,p1      ,"C2 parameters not present")

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        BF(7,REST_OCTET & 0x7F,ACT_CHECK,ANONYMOUS,SILENT)
        BF(8,REST_OCTET,ACT_CHECK,ANONYMOUS,SILENT)
        BF(8,REST_OCTET,ACT_CHECK,ANONYMOUS,SILENT)
        BF(8,REST_OCTET,ACT_CHECK,ANONYMOUS,SILENT)
    IE_END(si_3_rest_octets)
    IE_BEGIN(si_4_rest_octets) /* optionally contains cell (re)select params */
        BF(1,0,ACT_CHECK,p1,"C2 parameters not present")
        BF(7,REST_OCTET & 0x7F,ACT_CHECK,ANONYMOUS,SILENT)
        BF(8,REST_OCTET,ACT_CHECK,ANONYMOUS,SILENT)
        BF(8,REST_OCTET,ACT_CHECK,ANONYMOUS,SILENT)
        BF(8,REST_OCTET,ACT_CHECK,ANONYMOUS,SILENT)
        BF(8,REST_OCTET,ACT_CHECK,ANONYMOUS,SILENT)
        BF(8,REST_OCTET,ACT_CHECK,ANONYMOUS,SILENT)
        BF(8,REST_OCTET,ACT_CHECK,ANONYMOUS,SILENT)
        BF(8,REST_OCTET,ACT_CHECK,ANONYMOUS,SILENT)
        BF(8,REST_OCTET,ACT_CHECK,ANONYMOUS,SILENT)
        BF(8,REST_OCTET,ACT_CHECK,ANONYMOUS,SILENT)
    IE_END(si_4_rest_octets)
    IE_BEGIN(system_information_type_1_message_type)
        BF(8,0x19,ACT_CHECK,ANONYMOUS,SILENT)
    IE_END(system_information_type_1_message_type)
    IE_BEGIN(system_information_type_2_message_type)
        BF(8,0x1A,ACT_CHECK,ANONYMOUS,SILENT)
    IE_END(system_information_type_2_message_type)
    IE_BEGIN(system_information_type_3_message_type)
        BF(8,0x1B,ACT_CHECK,ANONYMOUS,SILENT)
    IE_END(system_information_type_3_message_type)
    IE_BEGIN(system_information_type_4_message_type)
        BF(8,0x1C,ACT_CHECK,ANONYMOUS,SILENT)
    IE_END(system_information_type_4_message_type)
    IE_BEGIN(system_information_type_5_message_type)
        BF(8,0x1D,ACT_CHECK,ANONYMOUS,SILENT)
    IE_END(system_information_type_5_message_type)
    IE_BEGIN(system_information_type_6_message_type)
        BF(8,0x1E,ACT_CHECK,ANONYMOUS,SILENT)
    IE_END(system_information_type_6_message_type)

    IE_BEGIN(paging_request_type_1_message_type)
        BF(8,0x21,ACT_CHECK,ANONYMOUS,SILENT)
    IE_END(paging_request_type_1_message_type)
    IE_BEGIN(immediate_assignment_message_type)
        BF(8,0x3F,ACT_CHECK,ANONYMOUS,SILENT)
    IE_END(immediate_assignment_message_type)

    IE_BEGIN( immediate_assignment_reject_message_type )
        BF( 8, 0x3A,ACT_CHECK,ANONYMOUS,SILENT )
    IE_END( immediate_assignment_reject_message_type )

    IE_BEGIN(paging_response_message_type)
        BF(8,0x27,ACT_CHECK,ANONYMOUS,SILENT)
    IE_END(paging_response_message_type)
    IE_BEGIN(ciphering_mode_command_message_type)
        BF(8,0x35,ACT_CHECK,ANONYMOUS,SILENT)
    IE_END(ciphering_mode_command_message_type)
    IE_BEGIN(ciphering_mode_complete_message_type)
        BF(8,0x32,ACT_CHECK,ANONYMOUS,SILENT)
    IE_END(ciphering_mode_complete_message_type)
    IE_BEGIN( wait_indication)
        BF( 8, 0, ACT_CHECK, ANONYMOUS, "0 seconds" )
    IE_END( wait_indication )

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```

IE_BEGIN( iar_rest_octets)
    BF( 8, REST_OCTET, ACT_CHECK, ANONYMOUS,SILENT )
    BF( 8, REST_OCTET, ACT_CHECK, ANONYMOUS,SILENT )
    BF( 8, REST_OCTET, ACT_CHECK, ANONYMOUS,SILENT )
IE_END( iar_rest_octets)

IE_BEGIN( request_reference_2 )
    BF( 3, M3(1,0,0),      ACT_CHECK, random_access_info,SILENT )
    BF( 5, M5(1,1,1,1,1 ), ACT_CHECK, ref, SILENT)
    BF( 5, 0,              ACT_CHECK, t1, SILENT )
    BF( 6, 0,              ACT_CHECK, t3, SILENT )
    BF( 5, 0,              ACT_CHECK, t2, SILENT )
IE_END( request_reference_2 )

/*-----*\
| Messages
\*-----*/
MSG3_BEGIN(system_information_type_1)
    IE(12_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1)
MSG3_BEGIN(system_information_type_1_27_5)
    IE(12_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_5)
MSG3_BEGIN(system_information_type_1_27_7)
    IE(12_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_7)
MSG3_BEGIN(system_information_type_2)
    IE(12_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter)
MSG3_END(system_information_type_2)
MSG3_BEGIN(system_information_type_2_27_5)
    IE(12_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)

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```
    IE(rach_control_parameter)
MSG3_END(system_information_type_2_27_5)
MSG3_BEGIN(system_information_type_2_27_7)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter)
MSG3_END(system_information_type_2_27_7)
MSG3_BEGIN(system_information_type_3)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3)
MSG3_BEGIN(system_information_type_3_27_5)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_234_02_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_5)
MSG3_BEGIN(system_information_type_3_27_7)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_234_01_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_7)
MSG3_BEGIN(system_information_type_3_27_5_B)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_234_03_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
```

```
    IE(rach_control_parameter)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_5_B)
MSG3_BEGIN(system_information_type_3_27_5_C)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_234_04_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_5_C)
MSG3_BEGIN(system_information_type_3_27_5_D)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_234_05_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_5_D)
MSG3_BEGIN(system_information_type_3_27_5_E)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_234_01_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_5_E)
MSG3_BEGIN(system_information_type_3_27_5_F)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_234_06_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_5_F)
MSG3_BEGIN(system_information_type_3_changed)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
```

```
    IE(cell_identity)
    IE(location_area_identification)
    IE(control_channel_description_changed)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_changed)
MSG3_BEGIN(system_information_type_4)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification)
    IE(cell_selection_parameter)
    IE(rach_control_parameter)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4)
MSG3_BEGIN(system_information_type_4_27_5)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_234_02_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_5)
MSG3_BEGIN(system_information_type_4_27_7)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_234_01_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_7)
MSG3_BEGIN(system_information_type_4_27_5_B)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_234_03_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_5_B)
MSG3_BEGIN(system_information_type_4_27_5_C)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_234_04_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_5_C)
MSG3_BEGIN(system_information_type_4_27_5_D)
    IE(l2_pseudo_length_12)
```

```
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_234_05_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_5_D)
MSG3_BEGIN(system_information_type_4_27_5_E)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_234_01_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_5_E)
MSG3_BEGIN(system_information_type_4_27_5_F)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_234_06_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_5_F)
MSG3_BEGIN(system_information_type_1_R)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter_reest)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_R)
MSG3_BEGIN(system_information_type_2_R)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_reest)
MSG3_END(system_information_type_2_R)
MSG3_BEGIN(system_information_type_3_R)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_reest)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_R)
MSG3_BEGIN(system_information_type_4_R)
```

```
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_reest)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_R)
MSG3_BEGIN(system_information_type_1_A0)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_A0)
MSG3_BEGIN(system_information_type_2_A0)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter)
MSG3_END(system_information_type_2_A0)
MSG3_BEGIN(system_information_type_3_A0)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification)
    IE(control_channel_description_att)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_A0)
MSG3_BEGIN(system_information_type_4_A0)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification)
    IE(cell_selection_parameter)
    IE(rach_control_parameter)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_A0)
MSG3_BEGIN(system_information_type_1_A1)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_A1)
MSG3_BEGIN(system_information_type_2_A1)
```



```
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter)
MSG3_END(system_information_type_2_A1)
MSG3_BEGIN(system_information_type_3_A1)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_B)
    IE(control_channel_description_att_per)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_A1)
MSG3_BEGIN(system_information_type_4_A1)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_B)
    IE(cell_selection_parameter)
    IE(rach_control_parameter)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_A1)
MSG3_BEGIN(system_information_type_1_A2)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_A2)
MSG3_BEGIN(system_information_type_2_A2)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter)
MSG3_END(system_information_type_2_A2)
MSG3_BEGIN(system_information_type_3_A2)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification)
    IE(control_channel_description_att)
    IE(cell_options)
    IE(cell_selection_parameter_neci1)
    IE(rach_control_parameter)
```

```
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_A2)
MSG3_BEGIN(system_information_type_4_A2)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification)
    IE(cell_selection_parameter_neci1)
    IE(rach_control_parameter)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_A2)
MSG3_BEGIN(system_information_type_3_A2_B)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_B)
    IE(control_channel_description_att)
    IE(cell_options)
    IE(cell_selection_parameter_neci1)
    IE(rach_control_parameter)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_A2_B)
MSG3_BEGIN(system_information_type_4_A2_B)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_B)
    IE(cell_selection_parameter_neci1)
    IE(rach_control_parameter)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_A2_B)
MSG3_BEGIN(system_information_type_1_A3)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_A3)
MSG3_BEGIN(system_information_type_2_A3)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter)
MSG3_END(system_information_type_2_A3)
MSG3_BEGIN(system_information_type_3_A3)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification)
```

```
    IE(control_channel_description_att_per)
    IE(cell_options)
    IE(cell_selection_parameter_neci1)
    IE(rach_control_parameter)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_A3)
MSG3_BEGIN(system_information_type_4_A3)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification)
    IE(cell_selection_parameter_neci1)
    IE(rach_control_parameter)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_A3)
MSG3_BEGIN(system_information_type_5)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_5_message_type)
    IE(bcch_frequency_list)
MSG3_END(system_information_type_5)
MSG3_BEGIN(system_information_type_6)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_6_message_type)
    IE(cell_identity)
    IE(location_area_identification)
    IE(cell_options)
    IE(ncc_permitted)
MSG3_END(system_information_type_6)
MSG3_BEGIN(system_information_type_1_27_10_A)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_A)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_A)
MSG3_BEGIN(system_information_type_2_27_10_A)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_A)
MSG3_END(system_information_type_2_27_10_A)
MSG3_BEGIN(system_information_type_3_27_10_A)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_234_01_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_A)
```

```
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_A)
MSG3_BEGIN(system_information_type_4_27_10_A)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_234_01_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_A)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_A)

MSG3_BEGIN(system_information_type_1_27_10_B)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_B)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_B)
MSG3_BEGIN(system_information_type_2_27_10_B)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_B)
MSG3_END(system_information_type_2_27_10_B)
MSG3_BEGIN(system_information_type_3_27_10_B)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_234_01_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_B)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_B)
MSG3_BEGIN(system_information_type_4_27_10_B)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_234_01_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_B)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_B)

MSG3_BEGIN(system_information_type_1_27_10_C)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
```

```
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_C)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_C)
MSG3_BEGIN(system_information_type_2_27_10_C)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_C)
MSG3_END(system_information_type_2_27_10_C)
MSG3_BEGIN(system_information_type_3_27_10_C)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_246_81_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_C)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_C)
MSG3_BEGIN(system_information_type_4_27_10_C)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_246_81_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_C)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_C)

MSG3_BEGIN(system_information_type_1_27_10_D)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_D)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_D)
MSG3_BEGIN(system_information_type_2_27_10_D)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_D)
MSG3_END(system_information_type_2_27_10_D)
MSG3_BEGIN(system_information_type_3_27_10_D)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
```

```
    IE(cell_identity)
    IE(location_area_identification_246_81_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_D)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_D)
MSG3_BEGIN(system_information_type_4_27_10_D)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_246_81_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_D)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_D)

MSG3_BEGIN(system_information_type_1_27_10_E)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_E)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_E)
MSG3_BEGIN(system_information_type_2_27_10_E)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_E)
MSG3_END(system_information_type_2_27_10_E)
MSG3_BEGIN(system_information_type_3_27_10_E)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_246_81_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_E)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_E)
MSG3_BEGIN(system_information_type_4_27_10_E)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_246_81_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_E)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_E)
```

```
MSG3_BEGIN(system_information_type_1_27_10_F_1)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_F_1)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_F_1)
MSG3_BEGIN(system_information_type_2_27_10_F_1)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_F_1)
MSG3_END(system_information_type_2_27_10_F_1)
MSG3_BEGIN(system_information_type_3_27_10_F_1)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_246_82_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_F_1)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_F_1)
MSG3_BEGIN(system_information_type_4_27_10_F_1)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_246_82_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_F_1)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_F_1)

MSG3_BEGIN(system_information_type_1_27_10_F_2)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_F_2)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_F_2)
MSG3_BEGIN(system_information_type_2_27_10_F_2)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_F_2)
```

```
MSG3_END(system_information_type_2_27_10_F_2)
MSG3_BEGIN(system_information_type_3_27_10_F_2)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_246_82_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_F_2)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_F_2)
MSG3_BEGIN(system_information_type_4_27_10_F_2)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_246_82_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_F_2)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_F_2)

MSG3_BEGIN(system_information_type_1_27_10_F_3)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_F_3)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_F_3)
MSG3_BEGIN(system_information_type_2_27_10_F_3)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_F_3)
MSG3_END(system_information_type_2_27_10_F_3)
MSG3_BEGIN(system_information_type_3_27_10_F_3)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_246_82_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_F_3)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_F_3)
MSG3_BEGIN(system_information_type_4_27_10_F_3)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
```



```
    IE(system_information_type_4_message_type)
    IE(location_area_identification_246_82_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_F_3)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_F_3)

MSG3_BEGIN(system_information_type_1_27_10_F_4)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_F_4)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_F_4)
MSG3_BEGIN(system_information_type_2_27_10_F_4)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_F_4)
MSG3_END(system_information_type_2_27_10_F_4)
MSG3_BEGIN(system_information_type_3_27_10_F_4)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_234_01_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_F_4)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_F_4)
MSG3_BEGIN(system_information_type_4_27_10_F_4)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_234_01_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_F_4)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_F_4)

MSG3_BEGIN(system_information_type_1_27_10_F_5)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_F_5)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_F_5)
MSG3_BEGIN(system_information_type_2_27_10_F_5)
    IE(l2_pseudo_length_22)
```

```
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_F_5)
MSG3_END(system_information_type_2_27_10_F_5)
MSG3_BEGIN(system_information_type_3_27_10_F_5)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_234_01_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_F_5)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_F_5)
MSG3_BEGIN(system_information_type_4_27_10_F_5)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_234_01_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_F_5)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_F_5)

MSG3_BEGIN(system_information_type_1_27_10_F_6)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_F_6)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_F_6)
MSG3_BEGIN(system_information_type_2_27_10_F_6)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_F_6)
MSG3_END(system_information_type_2_27_10_F_6)
MSG3_BEGIN(system_information_type_3_27_10_F_6)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_234_01_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_F_6)
```

```
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_F_6)
MSG3_BEGIN(system_information_type_4_27_10_F_6)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_234_01_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_F_6)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_F_6)

MSG3_BEGIN(system_information_type_1_27_10_F_7)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_F_7)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_F_7)
MSG3_BEGIN(system_information_type_2_27_10_F_7)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_F_7)
MSG3_END(system_information_type_2_27_10_F_7)
MSG3_BEGIN(system_information_type_3_27_10_F_7)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_234_01_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_F_7)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_F_7)
MSG3_BEGIN(system_information_type_4_27_10_F_7)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_234_01_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_F_7)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_F_7)

MSG3_BEGIN(system_information_type_1_27_10_F_8)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
```

```
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_F_8)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_F_8)
MSG3_BEGIN(system_information_type_2_27_10_F_8)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_F_8)
MSG3_END(system_information_type_2_27_10_F_8)
MSG3_BEGIN(system_information_type_3_27_10_F_8)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_234_01_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_F_8)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_F_8)
MSG3_BEGIN(system_information_type_4_27_10_F_8)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_234_01_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_F_8)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_F_8)

MSG3_BEGIN(system_information_type_1_27_10_F_9)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_F_9)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_F_9)
MSG3_BEGIN(system_information_type_2_27_10_F_9)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_F_9)
MSG3_END(system_information_type_2_27_10_F_9)
MSG3_BEGIN(system_information_type_3_27_10_F_9)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
```

```
    IE(cell_identity)
    IE(location_area_identification_234_01_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_F_9)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_F_9)
MSG3_BEGIN(system_information_type_4_27_10_F_9)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_234_01_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_F_9)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_F_9)

MSG3_BEGIN(system_information_type_1_27_10_F_10)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_F_10)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_F_10)
MSG3_BEGIN(system_information_type_2_27_10_F_10)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_F_10)
MSG3_END(system_information_type_2_27_10_F_10)
MSG3_BEGIN(system_information_type_3_27_10_F_10)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_234_01_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_F_10)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_F_10)
MSG3_BEGIN(system_information_type_4_27_10_F_10)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_234_01_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_F_10)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_F_10)
```

```
MSG3_BEGIN(system_information_type_1_27_10_F_11)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_F_11)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_F_11)
MSG3_BEGIN(system_information_type_2_27_10_F_11)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_F_11)
MSG3_END(system_information_type_2_27_10_F_11)
MSG3_BEGIN(system_information_type_3_27_10_F_11)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_234_01_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_F_11)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_F_11)
MSG3_BEGIN(system_information_type_4_27_10_F_11)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_234_01_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_F_11)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_F_11)

MSG3_BEGIN(system_information_type_1_27_10_F_12)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_F_12)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_F_12)
MSG3_BEGIN(system_information_type_2_27_10_F_12)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_F_12)
```

```
MSG3_END(system_information_type_2_27_10_F_12)
MSG3_BEGIN(system_information_type_3_27_10_F_12)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_234_01_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_F_12)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_F_12)
MSG3_BEGIN(system_information_type_4_27_10_F_12)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_234_01_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_F_12)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_F_12)

MSG3_BEGIN(system_information_type_1_27_10_F_13)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_F_13)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_F_13)
MSG3_BEGIN(system_information_type_2_27_10_F_13)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_F_13)
MSG3_END(system_information_type_2_27_10_F_13)
MSG3_BEGIN(system_information_type_3_27_10_F_13)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_246_82_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_F_13)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_F_13)
MSG3_BEGIN(system_information_type_4_27_10_F_13)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
```

```
    IE(system_information_type_4_message_type)
    IE(location_area_identification_246_82_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_F_13)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_F_13)

MSG3_BEGIN(system_information_type_1_27_10_F_14)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_F_14)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_F_14)
MSG3_BEGIN(system_information_type_2_27_10_F_14)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_F_14)
MSG3_END(system_information_type_2_27_10_F_14)
MSG3_BEGIN(system_information_type_3_27_10_F_14)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_246_82_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_F_14)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_F_14)
MSG3_BEGIN(system_information_type_4_27_10_F_14)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_246_82_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_F_14)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_F_14)

MSG3_BEGIN(system_information_type_1_27_10_F_15)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_F_15)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_F_15)
MSG3_BEGIN(system_information_type_2_27_10_F_15)
    IE(l2_pseudo_length_22)
```



```
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_F_15)
MSG3_END(system_information_type_2_27_10_F_15)
MSG3_BEGIN(system_information_type_3_27_10_F_15)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_246_82_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_F_15)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_F_15)
MSG3_BEGIN(system_information_type_4_27_10_F_15)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_246_82_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_F_15)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_F_15)

MSG3_BEGIN(system_information_type_1_27_10_G_1)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_G_1)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_G_1)
MSG3_BEGIN(system_information_type_2_27_10_G_1)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_G_1)
MSG3_END(system_information_type_2_27_10_G_1)
MSG3_BEGIN(system_information_type_3_27_10_G_1)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_246_81_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_G_1)
```

```
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_G_1)
MSG3_BEGIN(system_information_type_4_27_10_G_1)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_246_81_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_G_1)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_G_1)

MSG3_BEGIN(system_information_type_1_27_10_G_2)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_G_2)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_G_2)
MSG3_BEGIN(system_information_type_2_27_10_G_2)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_G_2)
MSG3_END(system_information_type_2_27_10_G_2)
MSG3_BEGIN(system_information_type_3_27_10_G_2)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_246_81_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_G_2)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_G_2)
MSG3_BEGIN(system_information_type_4_27_10_G_2)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_246_81_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_G_2)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_G_2)

MSG3_BEGIN(system_information_type_1_27_10_G_3)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
```

```
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_G_3)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_G_3)
MSG3_BEGIN(system_information_type_2_27_10_G_3)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_G_3)
MSG3_END(system_information_type_2_27_10_G_3)
MSG3_BEGIN(system_information_type_3_27_10_G_3)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_246_82_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_G_3)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_G_3)
MSG3_BEGIN(system_information_type_4_27_10_G_3)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_246_82_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_G_3)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_G_3)

MSG3_BEGIN(system_information_type_1_27_10_G_4)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_G_4)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_G_4)
MSG3_BEGIN(system_information_type_2_27_10_G_4)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_G_4)
MSG3_END(system_information_type_2_27_10_G_4)
MSG3_BEGIN(system_information_type_3_27_10_G_4)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
```

```
    IE(cell_identity)
    IE(location_area_identification_246_82_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_G_4)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_G_4)
MSG3_BEGIN(system_information_type_4_27_10_G_4)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_246_82_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_G_4)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_G_4)

MSG3_BEGIN(system_information_type_1_27_10_G_5)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_G_5)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_G_5)
MSG3_BEGIN(system_information_type_2_27_10_G_5)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_G_5)
MSG3_END(system_information_type_2_27_10_G_5)
MSG3_BEGIN(system_information_type_3_27_10_G_5)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_246_82_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_G_5)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_G_5)
MSG3_BEGIN(system_information_type_4_27_10_G_5)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_246_82_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_G_5)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_G_5)
```

```
MSG3_BEGIN(system_information_type_1_27_10_G_6)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_G_6)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_G_6)
MSG3_BEGIN(system_information_type_2_27_10_G_6)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_G_6)
MSG3_END(system_information_type_2_27_10_G_6)
MSG3_BEGIN(system_information_type_3_27_10_G_6)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_246_82_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_G_6)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_G_6)
MSG3_BEGIN(system_information_type_4_27_10_G_6)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_246_82_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_G_6)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_G_6)

MSG3_BEGIN(system_information_type_1_27_10_G_7)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_G_7)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_G_7)
MSG3_BEGIN(system_information_type_2_27_10_G_7)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_G_7)
```

```
MSG3_END(system_information_type_2_27_10_G_7)
MSG3_BEGIN(system_information_type_3_27_10_G_7)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_246_82_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_G_7)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_G_7)
MSG3_BEGIN(system_information_type_4_27_10_G_7)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_246_82_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_G_7)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_G_7)

MSG3_BEGIN(system_information_type_1_27_10_G_8)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_G_8)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_G_8)
MSG3_BEGIN(system_information_type_2_27_10_G_8)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_G_8)
MSG3_END(system_information_type_2_27_10_G_8)
MSG3_BEGIN(system_information_type_3_27_10_G_8)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_246_82_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_G_8)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_G_8)
MSG3_BEGIN(system_information_type_4_27_10_G_8)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
```

```
    IE(system_information_type_4_message_type)
    IE(location_area_identification_246_82_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_G_8)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_G_8)

MSG3_BEGIN(system_information_type_1_27_10_G_9)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_G_9)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_G_9)
MSG3_BEGIN(system_information_type_2_27_10_G_9)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_G_9)
MSG3_END(system_information_type_2_27_10_G_9)
MSG3_BEGIN(system_information_type_3_27_10_G_9)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_246_81_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_G_9)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_G_9)
MSG3_BEGIN(system_information_type_4_27_10_G_9)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_246_81_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_G_9)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_G_9)

MSG3_BEGIN(system_information_type_1_27_10_G_10)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_G_10)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_G_10)
MSG3_BEGIN(system_information_type_2_27_10_G_10)
```

```
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_G_10)
MSG3_END(system_information_type_2_27_10_G_10)
MSG3_BEGIN(system_information_type_3_27_10_G_10)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_246_81_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_G_10)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_G_10)
MSG3_BEGIN(system_information_type_4_27_10_G_10)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_246_81_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_G_10)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_G_10)

MSG3_BEGIN(system_information_type_1_27_10_H_1)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_H_1)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_H_1)
MSG3_BEGIN(system_information_type_2_27_10_H_1)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_H_1)
MSG3_END(system_information_type_2_27_10_H_1)
MSG3_BEGIN(system_information_type_3_27_10_H_1)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_246_81_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
```



```
    IE(rach_control_parameter_27_10_H_1)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_H_1)
MSG3_BEGIN(system_information_type_4_27_10_H_1)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_246_81_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_H_1)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_H_1)

MSG3_BEGIN(system_information_type_1_27_10_H_2)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_H_2)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_H_2)
MSG3_BEGIN(system_information_type_2_27_10_H_2)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_H_2)
MSG3_END(system_information_type_2_27_10_H_2)
MSG3_BEGIN(system_information_type_3_27_10_H_2)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_246_82_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_H_2)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_H_2)
MSG3_BEGIN(system_information_type_4_27_10_H_2)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_246_82_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_H_2)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_H_2)

MSG3_BEGIN(system_information_type_1_27_10_H_3)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
```

```
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_H_3)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_H_3)
MSG3_BEGIN(system_information_type_2_27_10_H_3)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_H_3)
MSG3_END(system_information_type_2_27_10_H_3)
MSG3_BEGIN(system_information_type_3_27_10_H_3)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_246_82_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_H_3)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_H_3)
MSG3_BEGIN(system_information_type_4_27_10_H_3)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_246_82_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_H_3)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_H_3)

MSG3_BEGIN(system_information_type_1_27_10_H_4)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_H_4)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_H_4)
MSG3_BEGIN(system_information_type_2_27_10_H_4)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_H_4)
MSG3_END(system_information_type_2_27_10_H_4)
MSG3_BEGIN(system_information_type_3_27_10_H_4)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
```

```
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_246_82_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_H_4)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_H_4)
MSG3_BEGIN(system_information_type_4_27_10_H_4)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_246_82_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_H_4)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_H_4)

MSG3_BEGIN(system_information_type_1_27_10_H_5)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_H_5)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_H_5)
MSG3_BEGIN(system_information_type_2_27_10_H_5)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_H_5)
MSG3_END(system_information_type_2_27_10_H_5)
MSG3_BEGIN(system_information_type_3_27_10_H_5)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_246_81_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_H_5)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_H_5)
MSG3_BEGIN(system_information_type_4_27_10_H_5)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_246_81_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_H_5)
    IE(si_4_rest_octets)
```

```
MSG3_END(system_information_type_4_27_10_H_5)

MSG3_BEGIN(system_information_type_1_27_10_H_6)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_H_6)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_H_6)
MSG3_BEGIN(system_information_type_2_27_10_H_6)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_H_6)
MSG3_END(system_information_type_2_27_10_H_6)
MSG3_BEGIN(system_information_type_3_27_10_H_6)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_246_81_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_H_6)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_H_6)
MSG3_BEGIN(system_information_type_4_27_10_H_6)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_246_81_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_H_6)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_H_6)

MSG3_BEGIN(system_information_type_1_27_10_H_7)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_H_7)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_H_7)
MSG3_BEGIN(system_information_type_2_27_10_H_7)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
```

```
    IE(rach_control_parameter_27_10_H_7)
MSG3_END(system_information_type_2_27_10_H_7)
MSG3_BEGIN(system_information_type_3_27_10_H_7)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_246_82_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_H_7)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_H_7)
MSG3_BEGIN(system_information_type_4_27_10_H_7)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_246_82_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_H_7)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_H_7)

MSG3_BEGIN(system_information_type_1_27_10_H_8)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_H_8)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_H_8)
MSG3_BEGIN(system_information_type_2_27_10_H_8)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_H_8)
MSG3_END(system_information_type_2_27_10_H_8)
MSG3_BEGIN(system_information_type_3_27_10_H_8)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_246_82_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_H_8)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_H_8)
MSG3_BEGIN(system_information_type_4_27_10_H_8)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
```

```
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_246_82_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_H_8)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_H_8)

MSG3_BEGIN(system_information_type_1_27_10_H_9)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_H_9)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_H_9)
MSG3_BEGIN(system_information_type_2_27_10_H_9)
    IE(l2_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_H_9)
MSG3_END(system_information_type_2_27_10_H_9)
MSG3_BEGIN(system_information_type_3_27_10_H_9)
    IE(l2_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_246_82_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_H_9)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_H_9)
MSG3_BEGIN(system_information_type_4_27_10_H_9)
    IE(l2_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_246_82_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_H_9)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_H_9)

MSG3_BEGIN(system_information_type_1_27_10_H_10)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_1_message_type)
    IE(cell_channel_description)
    IE(rach_control_parameter_27_10_H_10)
    IE(si_1_rest_octets)
MSG3_END(system_information_type_1_27_10_H_10)
MSG3_BEGIN(system_information_type_2_27_10_H_10)
```

```

    IE(12_pseudo_length_22)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_2_message_type)
    IE(bcch_frequency_list)
    IE(ncc_permitted)
    IE(rach_control_parameter_27_10_H_10)
MSG3_END(system_information_type_2_27_10_H_10)
MSG3_BEGIN(system_information_type_3_27_10_H_10)
    IE(12_pseudo_length_18)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_3_message_type)
    IE(cell_identity)
    IE(location_area_identification_246_81_0001)
    IE(control_channel_description)
    IE(cell_options)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_H_10)
    IE(si_3_rest_octets)
MSG3_END(system_information_type_3_27_10_H_10)
MSG3_BEGIN(system_information_type_4_27_10_H_10)
    IE(12_pseudo_length_12)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(system_information_type_4_message_type)
    IE(location_area_identification_246_81_0001)
    IE(cell_selection_parameter)
    IE(rach_control_parameter_27_10_H_10)
    IE(si_4_rest_octets)
MSG3_END(system_information_type_4_27_10_H_10)

/*-----*\
| GSM 11.10
| 10 Generic call set up procedure
| 10.1 Generic call setup-up procedure for mobile terminating speech calls
| 10.1.4 Specific message contents
/*-----*/
/*-----*/
| Information Elements
/*-----*/
IE_BEGIN(setup_message_type)
    BF(1, 0,ACT_CHECK,ANONYMOUS,SILENT)
    BF(1, 0,ACT_SHOW, ANONYMOUS,SILENT)
    BF(6, 0x05,ACT_CHECK,ANONYMOUS,SILENT)
IE_END(setup_message_type)

IE_BEGIN(call_confirmed_message_type)
    BF(1, 0,ACT_CHECK,ANONYMOUS,SILENT)
    BF(1, 0,ACT_SHOW, ANONYMOUS,SILENT)
    BF(6, 0x08,ACT_CHECK,ANONYMOUS,SILENT)
IE_END(call_confirmed_message_type)

MSG3_BEGIN(setup) /* contains 'signal' but no 'Bearer Cap' */
    IE(transaction_identifier_source)
    IE(call_control_protocol_discriminator)
    IE(setup_message_type)
    IE(iei_34)
    IE(signal_call_waiting)
MSG3_END(setup)

```

```
MSG3_BEGIN(release_complete_88)
    IE(transaction_identifier_dest)
    IE(call_control_protocol_discriminator)
    IE(release_complete_message_type)
    IE(iei_08)
    IE(cause_88)
MSG3_END(release_complete_88)

MSG3_BEGIN(setup_data)
    IE(transaction_identifier_source)
    IE(call_control_protocol_discriminator)
    IE(setup_message_type)
    IE(iei_04)
    IE(bearer_capability_data)
    IE(iei_5E)
    IE(called_party_bcd_number)
MSG3_END(setup_data)

MSG3_BEGIN(setup_ts_61)
    IE(transaction_identifier_source)
    IE(call_control_protocol_discriminator)
    IE(setup_message_type)
    IE(repeat_indicator_circular)
    IE(iei_04)
    IE(bearer_capability)
    IE(iei_04)
    IE(bearer_capability_ts_61)
    IE(iei_5E)
    IE(called_party_bcd_number)
MSG3_END(setup_ts_61)

MSG3_BEGIN(setup_bs_61)
    IE(transaction_identifier_source)
    IE(call_control_protocol_discriminator)
    IE(setup_message_type)
    IE(repeat_indicator_circular)
    IE(iei_04)
    IE(bearer_capability)
    IE(iei_04)
    IE(bearer_capability_bs_61)
    IE(iei_5E)
    IE(called_party_bcd_number)
MSG3_END(setup_bs_61)

MSG3_BEGIN(setup_no_bc)
    IE(transaction_identifier_source)
    IE(call_control_protocol_discriminator)
    IE(setup_message_type)
MSG3_END(setup_no_bc)

MSG3_BEGIN(call_confirmed) /* contains bearer capability */
    IE(transaction_identifier_dest)
    IE(call_control_protocol_discriminator)
    IE(call_confirmed_message_type)
    IE(iei_04)
    IE(bearer_capability)
    IE(iei_15)
    IE(cc_capabilities)
MSG3_END(call_confirmed)
```



```
MSG3_BEGIN(paging_request_type_1)
    IE(l2_pseudo_length_11)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(paging_request_type_1_message_type)
    IE(channels_needed_for_mobiles_1_and_2)
    IE(page_mode)
    IE(mobile_identity)
    IE(p1_rest_octets)
MSG3_END(paging_request_type_1)

MSG3_BEGIN(paging_request_type_1_any_channel)
    IE(l2_pseudo_length_11)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(paging_request_type_1_message_type)
    IE(channels_needed_any_channel)
    IE(page_mode)
    IE(mobile_identity)
    IE(p1_rest_octets)
MSG3_END(paging_request_type_1_any_channel)

MSG3_BEGIN(paging_request_type_1_sdcch)
    IE(l2_pseudo_length_11)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(paging_request_type_1_message_type)
    IE(channels_needed_sdcch)
    IE(page_mode)
    IE(mobile_identity)
    IE(p1_rest_octets)
MSG3_END(paging_request_type_1_sdcch)

MSG3_BEGIN(paging_request_type_1_tch_full)
    IE(l2_pseudo_length_11)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(paging_request_type_1_message_type)
    IE(channels_needed_tch_full)
    IE(page_mode)
    IE(mobile_identity)
    IE(p1_rest_octets)
MSG3_END(paging_request_type_1_tch_full)

MSG3_BEGIN(paging_request_type_1_tch_full_or_half)
    IE(l2_pseudo_length_11)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(paging_request_type_1_message_type)
    IE(channels_needed_tch_full_or_half)
    IE(page_mode)
    IE(mobile_identity)
    IE(p1_rest_octets)
MSG3_END(paging_request_type_1_tch_full_or_half)

MSG3_BEGIN(channel_request_mtc_any)
    IE(rach)
MSG3_END(channel_request_mtc_any)
```

```
MSG3_BEGIN(channel_request_ec)
    IE(rach_ec)
MSG3_END(channel_request_ec)

MSG3_BEGIN(channel_request_mtc_sdcch)
    IE(rach_0001)
MSG3_END(channel_request_mtc_sdcch)

MSG3_BEGIN(channel_request_mtc_tch_full)
    IE(rach)
MSG3_END(channel_request_mtc_tch_full)

MSG3_BEGIN(channel_request_reest)
    IE(rach_reest)
MSG3_END(channel_request_reest)

MSG3_BEGIN(channel_request_detach_111)
    IE(rach_detach_111)
MSG3_END(channel_request_detach_111)

MSG3_BEGIN(channel_request_lup_000)
    IE(rach_lup_000)
MSG3_END(channel_request_lup_000)

MSG3_BEGIN(channel_request_ss_111)
    IE(rach_111)
MSG3_END(channel_request_ss_111)

MSG3_BEGIN(channel_request_ss_0001)
    IE(rach_0001)
MSG3_END(channel_request_ss_0001)

MSG3_BEGIN(channel_request_sms_111)
    IE(rach_111)
MSG3_END(channel_request_sms_111)

MSG3_BEGIN(channel_request_sms_0001)
    IE(rach_0001)
MSG3_END(channel_request_sms_0001)

MSG3_BEGIN(channel_request_detach_0001)
    IE(rach_detach_0001)
MSG3_END(channel_request_detach_0001)

MSG3_BEGIN(channel_request_lup_0000)
    IE(rach_lup_0000)
MSG3_END(channel_request_lup_0000)

MSG3_BEGIN(channel_request_moc)
    IE(rach_moc)
MSG3_END(channel_request_moc)
MSG3_BEGIN(channel_request)
    IE(rach)
MSG3_END(channel_request)
MSG3_BEGIN(immediate_assignment)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(immediate_assignment_message_type)
    IE(spare_half_octet)
```

```
    IE(page_mode)
    IE(channel_description)
    IE(request_reference)
    IE(timing_advance)
    IE(mobile_allocation)
    IE(ia_rest_octets)
MSG3_END(immediate_assignment)
MSG3_BEGIN(paging_response)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(paging_response_message_type)
    IE(spare_half_octet)
    IE(ciphering_key_sequence_number)
    IE(ms_classmark)
    IE(mobile_identity)
MSG3_END(paging_response)
MSG3_BEGIN( immediate_assignment_reject )
    IE( l2_pseudo_length_19 )
    IE( skip_indicator )
    IE( rr_management_protocol_discriminator )
    IE( immediate_assignment_reject_message_type )
    IE( spare_half_octet )
    IE( page_mode )
    IE( request_reference )
    IE( wait_indication )
    IE( request_reference_2 )
    IE( wait_indication )
    IE( request_reference_2 )
    IE( wait_indication )
    IE( request_reference_2 )
    IE( wait_indication )
    IE( iar_rest_octets )
MSG3_END( immediate_assignment_reject )

MSG3_BEGIN(ciphering_mode_command)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(ciphering_mode_command_message_type)
    IE(cipher_response)
    IE(ciphering_mode_setting)
MSG3_END(ciphering_mode_command)

MSG3_BEGIN(ciphering_mode_complete)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(ciphering_mode_complete_message_type)
MSG3_END(ciphering_mode_complete)

MSG3_BEGIN(immediate_assignment_tch)
    IE(l2_pseudo_length_21)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(immediate_assignment_message_type)
    IE(spare_half_octet)
    IE(page_mode)
    IE(channel_description_tch)
    IE(request_reference)
    IE(timing_advance)
    IE(mobile_allocation)
    IE(ia_rest_octets)
MSG3_END(immediate_assignment_tch)
```

```
MSG3_BEGIN(cm_service_request)
    IE(skip_indicator)
    IE(mobility_management_protocol_discriminator)
    IE(cm_service_request_message_type)
    IE(ciphering_key_sequence_number)
    IE(cm_service_type_moc)
    IE(ms_classmark)
    IE(mobile_identity)
MSG3_END(cm_service_request)

MSG3_BEGIN(identity_request)
    IE(skip_indicator)
    IE(mobility_management_protocol_discriminator)
    IE(identity_request_message_type)
    IE(spare_half_octet)
    IE(identity_type)
MSG3_END(identity_request)
```

```
MSG3_BEGIN(identity_response)
    IE(skip_indicator)
    IE(mobility_management_protocol_discriminator)
    IE(identity_response_message_type)
    IE(mobile_identity)
MSG3_END(identity_response)

MSG3_BEGIN(identity_response_0)
    IE(skip_indicator)
    IE(mobility_management_protocol_discriminator)
    IE(identity_response_0_message_type)
    IE(mobile_identity)
MSG3_END(identity_response_0)

MSG3_BEGIN(identity_response_1)
    IE(skip_indicator)
    IE(mobility_management_protocol_discriminator)
    IE(identity_response_1_message_type)
    IE(mobile_identity)
MSG3_END(identity_response_1)

MSG3_BEGIN(setup_moc)
    IE(transaction_identifier_source)
    IE(call_control_protocol_discriminator)
    IE(setup_message_type)
    IE(iei_04)
    IE(bearer_capability)
    IE(iei_5E)
    IE(called_party_bcd_number)
MSG3_END(setup_moc)
MSG3_BEGIN(authentication_request)
    IE(skip_indicator)
    IE(mobility_management_protocol_discriminator)
    IE(authentication_request_message_type)
    IE(spare_half_octet)
    IE(ciphering_key_sequence_number_2)
    IE(authentication_parameter_rand)
MSG3_END(authentication_request)
MSG3_BEGIN(authentication_response)
    IE(skip_indicator)
    IE(mobility_management_protocol_discriminator)
    IE(authentication_response_message_type)
    IE(authentication_parameter_sres)
MSG3_END(authentication_response)
MSG3_BEGIN(call_proceeding)
    IE(transaction_identifier_dest)
    IE(call_control_protocol_discriminator)
    IE(call_proceeding_message_type)
MSG3_END(call_proceeding)
MSG3_BEGIN(assignment_command)
    IE(skip_indicator)
    IE(rr_management_protocol_discriminator)
    IE(assignment_command_message_type)
    IE(description_of_the_first_channel_after_time)
    IE(power_command)
    IE(iei_63)
    IE(mode_of_the_first_channel)
MSG3_END(assignment_command)
MSG3_BEGIN(assignment_complete)
    IE(skip_indicator)
```

```
    IE(rr_management_protocol_discriminator)
    IE(assignment_complete_message_type)
    IE(rr_cause)
MSG3_END(assignment_complete)
MSG3_BEGIN(connect_acknowledge)
    IE(transaction_identifier_source)
    IE(call_control_protocol_discriminator)
    IE(connect_acknowledge_message_type)
MSG3_END(connect_acknowledge)

MSG3_BEGIN(alerting)
    IE(transaction_identifier_dest)
    IE(call_control_protocol_discriminator)
    IE(alerting_message_type)
MSG3_END(alerting)

MSG3_BEGIN(connect_aocc)
    IE(transaction_identifier_dest)
    IE(call_control_protocol_discriminator)
    IE(connect_message_type)
    IE(iei_1C)
    IE(facility_aocc)
MSG3_END(connect_aocc)

MSG3_BEGIN(connect)
    IE(transaction_identifier_dest)
    IE(call_control_protocol_discriminator)
    IE(connect_message_type)
MSG3_END(connect)

MSG3_BEGIN(facility_msg_aocc)
    IE(transaction_identifier_dest)
    IE(call_control_protocol_discriminator)
    IE(facility_message_type)
    IE(facility_aocc)
MSG3_END(facility_msg_aocc)

MSG3_BEGIN( location_updating_request_attach ) /* Ref.: [1], §9.2.15 */
    IE( skip_indicator )
    IE( mobility_management_protocol_discriminator )
    IE( location_updating_request_message_type )
    IE( ciphering_key_sequence_number )
    IE( location_updating_type_attach )
    IE( location_area_identification )
    IE( mobile_station_classmark_1)
    IE( mobile_identity)
MSG3_END( location_updating_request_attach )

MSG3_BEGIN( location_updating_request_attach_B ) /* Ref.: [1], §9.2.15 */
    IE( skip_indicator )
    IE( mobility_management_protocol_discriminator )
    IE( location_updating_request_message_type )
    IE( ciphering_key_sequence_number )
    IE( location_updating_type_attach )
    IE( location_area_identification_B )
    IE( mobile_station_classmark_1)
    IE( mobile_identity)
MSG3_END( location_updating_request_attach_B )

MSG3_BEGIN( location_updating_request_normal ) /* Ref.: [1], §9.2.15 */
    IE( skip_indicator )
```

```
    IE( mobility_management_protocol_discriminator )
    IE( location_updating_request_message_type )
    IE( ciphering_key_sequence_number )
    IE( location_updating_type_normal )
    IE( location_area_identification )
    IE( mobile_station_classmark_1)
    IE( mobile_identity)
MSG3_END( location_updating_request_normal )

MSG3_BEGIN( location_updating_request_normal_27_5_1 )
    IE( skip_indicator )
    IE( mobility_management_protocol_discriminator )
    IE( location_updating_request_message_type )
    IE( ciphering_key_sequence_number_none )
    IE( location_updating_type_normal )
    IE( location_area_identification_234_01_0000 )
    IE( mobile_station_classmark_1)
    IE( mobile_identity_tmsi_27_5)
MSG3_END( location_updating_request_normal_27_5_1 )

MSG3_BEGIN( location_updating_request_normal_27_7 )
    IE( skip_indicator )
    IE( mobility_management_protocol_discriminator )
    IE( location_updating_request_message_type )
    IE( ciphering_key_sequence_number_none )
    IE( location_updating_type_normal )
    IE( location_area_identification )
    IE( mobile_station_classmark_1)
    IE( mobile_identity_imsi)
MSG3_END( location_updating_request_normal_27_7 )

MSG3_BEGIN( location_updating_request_normal_27_5_2 )
    IE( skip_indicator )
    IE( mobility_management_protocol_discriminator )
    IE( location_updating_request_message_type )
    IE( ciphering_key_sequence_number_none )
    IE( location_updating_type_normal )
    IE( location_area_identification_234_01_FFFE )
    IE( mobile_station_classmark_1)
    IE( mobile_identity_imsi_27_5)
MSG3_END( location_updating_request_normal_27_5_2 )

MSG3_BEGIN( location_updating_request_27_10_E )
    IE( skip_indicator )
    IE( mobility_management_protocol_discriminator )
    IE( location_updating_request_message_type )
    IE( ciphering_key_sequence_number_none )
    IE( location_updating_type_normal )
    IE( location_area_identification )
    IE( mobile_station_classmark_1)
    IE( mobile_identity_imsi_27_10_1)
MSG3_END( location_updating_request_27_10_E )

MSG3_BEGIN( location_updating_request_27_10_F )
    IE( skip_indicator )
    IE( mobility_management_protocol_discriminator )
    IE( location_updating_request_message_type )
    IE( ciphering_key_sequence_number_none )
    IE( location_updating_type_normal )
    IE( location_area_identification )
    IE( mobile_station_classmark_1)
    IE( mobile_identity_imsi_27_10_2)
MSG3_END( location_updating_request_27_10_F )
```

```
MSG3_BEGIN( location_updating_request_normal_B ) /* Ref.: [1], §9.2.15 */
    IE( skip_indicator )
    IE( mobility_management_protocol_discriminator )
    IE( location_updating_request_message_type )
    IE( ciphering_key_sequence_number )
    IE( location_updating_type_normal )
    IE( location_area_identification_B )
    IE( mobile_station_classmark_1)
    IE( mobile_identity)
MSG3_END( location_updating_request_normal_B )

MSG3_BEGIN( location_updating_request_periodic )
    IE( skip_indicator )
    IE( mobility_management_protocol_discriminator )
    IE( location_updating_request_message_type )
    IE( ciphering_key_sequence_number )
    IE( location_updating_type_periodic )
    IE( location_area_identification_B)
    IE( mobile_station_classmark_1)
    IE( mobile_identity)
MSG3_END( location_updating_request_periodic )

MSG3_BEGIN( location_updating_request_periodic_B )
    IE( skip_indicator )
    IE( mobility_management_protocol_discriminator )
    IE( location_updating_request_message_type )
    IE( ciphering_key_sequence_number )
    IE( location_updating_type_periodic )
    IE( location_area_identification)
    IE( mobile_station_classmark_1)
    IE( mobile_identity)
MSG3_END( location_updating_request_periodic_B )

MSG3_BEGIN( location_updating_accept ) /* Ref.: [1], §9.2.13 */
    IE( skip_indicator )
    IE( mobility_management_protocol_discriminator )
    IE( location_updating_accept_message_type )
    IE( location_area_identification )
MSG3_END( location_updating_accept )

MSG3_BEGIN( location_updating_accept_27_10_E ) /* Ref.: [1], §9.2.13 */
    IE( skip_indicator )
    IE( mobility_management_protocol_discriminator )
    IE( location_updating_accept_message_type )
    IE( location_area_identification_246_81_0001 )
MSG3_END( location_updating_accept_27_10_E )

MSG3_BEGIN( location_updating_accept_27_10_F ) /* Ref.: [1], §9.2.13 */
    IE( skip_indicator )
    IE( mobility_management_protocol_discriminator )
    IE( location_updating_accept_message_type )
    IE( location_area_identification_246_82_0001 )
MSG3_END( location_updating_accept_27_10_F )

MSG3_BEGIN( location_updating_accept_27_10_F1 ) /* Ref.: [1], §9.2.13 */
    IE( skip_indicator )
    IE( mobility_management_protocol_discriminator )
    IE( location_updating_accept_message_type )
    IE( location_area_identification_246_81_0001 )
MSG3_END( location_updating_accept_27_10_F1 )
```



```
MSG3_BEGIN( location Updating_accept_27_10_F2 ) /* Ref.: [1], §9.2.13 */
    IE( skip_indicator )
    IE( mobility_management_protocol_discriminator )
    IE( location Updating_accept_message_type )
    IE( location_area_identification_234_01_0001 )
MSG3_END( location Updating_accept_27_10_F2 )

MSG3_BEGIN( location Updating_accept_B ) /* Ref.: [1], §9.2.13 */
    IE( skip_indicator )
    IE( mobility_management_protocol_discriminator )
    IE( location Updating_accept_message_type )
    IE( location_area_identification_B )
MSG3_END( location Updating_accept_B )

MSG3_BEGIN( location Updating_reject )
    IE( skip_indicator )
    IE( mobility_management_protocol_discriminator )
    IE( location Updating_reject_message_type )
    IE( reject_cause )
MSG3_END( location Updating_reject )

MSG3_BEGIN( channel_release ) /* Ref.: [1], §9.1.7; [2], §26.6.14 */
    IE( skip_indicator )
    IE( rr_management_protocol_discriminator )
    IE( channel_release_message_type )
    IE( rr_cause )
MSG3_END( channel_release )

MSG3_BEGIN( tmsi_reallocation_complete ) /* Ref.: [1], §9.2.18 */
    IE( skip_indicator )
    IE( mobility_management_protocol_discriminator )
    IE( tmsi_reallocation_complete_message_type )
MSG3_END( tmsi_reallocation_complete )

MSG3_BEGIN( imsi_detach_indication ) /* Ref.: [1], §9.2.12 */
    IE( skip_indicator )
    IE( mobility_management_protocol_discriminator )
    IE( imsi_detach_indication_message_type )
    IE( mobile_station_classmark_1 )
    IE( mobile_identity_tmsi )
MSG3_END( imsi_detach_indication )

MSG3_BEGIN( location Updating_accept_tmsi )
    IE( skip_indicator )
    IE( mobility_management_protocol_discriminator )
    IE( location Updating_accept_message_type )
    IE( location_area_identification )
    IE( ie1_17 )
    IE( mobile_identity_tmsi )
MSG3_END( location Updating_accept_tmsi )

MSG3_BEGIN( location Updating_accept_tmsi_27_7 )
    IE( skip_indicator )
    IE( mobility_management_protocol_discriminator )
    IE( location Updating_accept_message_type )
    IE( location_area_identification_234_01_0001 )
    IE( ie1_17 )
    IE( mobile_identity_tmsi )
MSG3_END( location Updating_accept_tmsi_27_7 )
```

4 TEST CASES

4.1 Preambles

4.1.1 MIT001: Power On, no IMSI Attach

Description: This test describes the initialization of environment and activation of the Mobile Station.

Preamble: None

Script:

```
ISS_INIT (4);

BS_SET_SYS_INFO ( 0 , system_information_type_1 );
BS_SET_SYS_INFO ( 0 , system_information_type_2 );
BS_SET_SYS_INFO ( 0 , system_information_type_3 );
BS_SET_SYS_INFO ( 0 , system_information_type_4 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

ISS_DELAY (20000);
```

History: 17.12.97 LE Initial

4.1.2 MIT002: Power On, IMSI Attach

Description: This test describes the initialization of environment and activation of the Mobile Station.

The NECI bit is set to 0 and IMSI attach is allowed.

Preamble: None

Script:

```
ISS_INIT (4);

BS_SET_SYS_INFO ( 0 , system_information_type_1_A0 );
BS_SET_SYS_INFO ( 0 , system_information_type_2_A0 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_A0 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_A0 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");
```

History: 17.12.97 LE Initial

4.1.3 MIT003: Power On, Call in Cell with Call Reestablishment

Description: This test describes the initialization of environment and activation of the Mobile Station. A mobile terminated call is started. Call Reestablishment is allowed in the cell.

Preamble: None

Script:

```
ISS_INIT (4);

BS_SET_SYS_INFO ( 0 , system_information_type_1_R );
BS_SET_SYS_INFO ( 0 , system_information_type_2_R );
BS_SET_SYS_INFO ( 0 , system_information_type_3_R );
BS_SET_SYS_INFO ( 0 , system_information_type_4_R );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

ISS_DELAY (20000);

BS_CONFIG_CHANNEL (0, PCH, UNACK, SAPI_0);
BS_MSG3_SEND (0,paging_request_type_1,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, 1, SAPI_0);
BS_MSG3_AWAIT(0,paging_response,SILENT);

BS_MSG3_SEND (0,authentication_request,SILENT);
BS_MSG3_AWAIT(0,authentication_response,SILENT);

BS_MSG3_SEND (0,assignment_command,SILENT);
BS_MSG3_AWAIT(0,assignment_complete,SILENT);

BS_MSG3_SEND (0,ciphering_mode_command,SILENT);
BS_MSG3_AWAIT(0,ciphering_mode_complete,SILENT);

BS_MSG3_SEND (0,setup,SILENT);
BS_MSG3_AWAIT(0,call_confirmed,SILENT);

BS_MSG3_AWAIT(0,alerting,SILENT);

AT_SEND ("ATA\r\n", "hook off");

BS_MSG3_AWAIT(0,connect,SILENT);
BS_MSG3_SEND (0,connect_acknowledge,SILENT);
```

History: 17.12.97 LE Initial

4.1.4 MIT004: Power On, Testcase 27.5

Description: This test describes the initialization of environment and activation of the Mobile Station for FTA testcase 27.5.

Preamble: None

Script:

```
ISS_INIT (1);

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_5 );
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_5 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_5 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

COMMAND ("SIM CONFIG MODE=52"); /* Set SIM */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");
```

History: 17.12.97 LE Initial

4.1.5 MIT005: Power On, Testcase 27.7

Description: This test describes the initialization of environment and activation of the Mobile Station for FTA testcase 27.7.

Preamble: None

Script:

```
ISS_INIT (1);

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_7 );
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_7 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_7 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_7 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

COMMAND ("SIM CONFIG MODE=53"); /* Set SIM */
AT_SEND ("AT+CFUN=1\r\n", "Power On");
AT_SEND ("AT+COPS=0\r\n", "Start Registration");
```

History: 17.12.97 LE Initial

4.2 General Tests

4.2.1 MIT100: Mobile Terminated Calls (Speech), (11.1.1)

Description: This test describes the mobile terminated call setup for speech.

Preamble: MIT001

Script:

```
BS_CONFIG_CHANNEL (0, PCH, UNACK, SAPI_0);
BS_MSG3_SEND (0,paging_request_type_1,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, 1, SAPI_0);
BS_MSG3_AWAIT(0,paging_response,SILENT);

BS_MSG3_SEND (0,ciphering_mode_command,SILENT);
BS_MSG3_AWAIT(0,ciphering_mode_complete,SILENT);

BS_MSG3_SEND (0,setup,SILENT);
BS_MSG3_AWAIT(0,call_confirmed,SILENT);
```

History: 17.12.97 LE Initial

4.2.2 MIT101: Mobile Terminated Calls (Data), (11.1.1)

Description: This test describes the mobile terminated call setup for data.

Preamble: MIT001

Script:

```
BS_CONFIG_CHANNEL (0, PCH, UNACK, SAPI_0);
BS_MSG3_SEND (0,paging_request_type_1,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, 1, SAPI_0);
BS_MSG3_AWAIT(0,paging_response,SILENT);

BS_MSG3_SEND (0,ciphering_mode_command,SILENT);
BS_MSG3_AWAIT(0,ciphering_mode_complete,SILENT);

BS_MSG3_SEND (0,setup_data,SILENT);
BS_MSG3_AWAIT(0,release_complete_88,SILENT);
```

History: 17.12.97 LE Initial

4.2.3 MIT102: Mobile Terminated Calls (Speech followed by Fax), (11.1.1)

Description: This test describes the mobile terminated call setup for speech followed by fax (TS 61). The call is rejected.

Preamble: MIT001

Script:

```
BS_CONFIG_CHANNEL (0, PCH, UNACK, SAPI_0);
BS_MSG3_SEND (0,paging_request_type_1,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, 1, SAPI_0);
BS_MSG3_AWAIT(0,paging_response,SILENT);

BS_MSG3_SEND (0,ciphering_mode_command,SILENT);
BS_MSG3_AWAIT(0,ciphering_mode_complete,SILENT);

BS_MSG3_SEND (0,setup_ts_61,SILENT);
BS_MSG3_AWAIT(0,release_complete_88,SILENT);
```

History: 17.12.97 LE Initial

4.2.4 MIT103: Mobile Terminated Calls (Speech followed by Data), (11.1.1)

Description: This test describes the mobile terminated call setup for speech followed by data (BS 61). The call is rejected.

Preamble: MIT001

Script:

```
BS_CONFIG_CHANNEL (0, PCH, UNACK, SAPI_0);
BS_MSG3_SEND (0,paging_request_type_1,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, 1, SAPI_0);
BS_MSG3_AWAIT(0,paging_response,SILENT);

BS_MSG3_SEND (0,ciphering_mode_command,SILENT);
BS_MSG3_AWAIT(0,ciphering_mode_complete,SILENT);

BS_MSG3_SEND (0,setup_bs_61,SILENT);
BS_MSG3_AWAIT(0,release_complete_88,SILENT);
```

History: 17.12.97 LE Initial

4.2.5 MIT104: Mobile Originated Calls (Speech), (11.1.2)

Description: This test describes the mobile originated call setup for speech.

Preamble: MIT001

Script:

```
AT_SEND ("ATD03039094117; \r\n", "dial");

BS_RACH_AWAIT(0,channel_request_moc,SILENT);
BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);

BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment_tch,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, 1, SAPI_0);
BS_MSG3_AWAIT(0,cm_service_request,SILENT);

BS_MSG3_SEND (0,identity_request,SILENT);
BS_MSG3_AWAIT(0,identity_response,SILENT);
BS_MSG3_SEND (0,ciphering_mode_command,SILENT);
BS_MSG3_AWAIT(0,ciphering_mode_complete,SILENT);

BS_MSG3_AWAIT(0,setup_moc,SILENT);
```

History:	17.12.97	LE	Initial
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4.2.6 MIT105: Verification of support of the single numbering scheme (11.2)

Description: This test describes the response of the mobile station to a setup message without bearer capability.

Preamble: MIT001

Script:

```
BS_CONFIG_CHANNEL (0, PCH, UNACK, SAPI_0);
BS_MSG3_SEND (0,paging_request_type_1,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, 1, SAPI_0);
BS_MSG3_AWAIT(0,paging_response,SILENT);

BS_MSG3_SEND (0,ciphering_mode_command,SILENT);
BS_MSG3_AWAIT(0,ciphering_mode_complete,SILENT);

BS_MSG3_SEND (0,setup_no_bc,SILENT);
BS_MSG3_AWAIT(0,call_confirmed,SILENT);
```

History: 17.12.97 LE Initial

4.2.7 MIT106: Verification of non-support of services (AoCC), MOC, U4, (11.3)

Description: This test applies to mobile station which do not support Advice of Charge.

Preamble: MIT001

Script:

```
AT_SEND ("ATD03039094117;\r\n", "dial");

BS_RACH_AWAIT(0,channel_request_moc,SILENT);
BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);

BS_MSG3_SEND (0,immediate_assignment_tch,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, 1, SAPI_0);
BS_MSG3_AWAIT(0,cm_service_request,SILENT);

BS_MSG3_SEND (0,ciphering_mode_command,SILENT);
BS_MSG3_AWAIT(0,ciphering_mode_complete,SILENT);

BS_MSG3_AWAIT(0,setup_moc,SILENT);

BS_MSG3_SEND (0,authentication_request,SILENT);
BS_MSG3_AWAIT(0,authentication_response,SILENT);

BS_MSG3_SEND (0,call_proceeding,SILENT);

BS_MSG3_SEND (0,assignment_command,SILENT);
BS_MSG3_AWAIT(0,assignment_complete,SILENT);

BS_MSG3_SEND (0,alerting,SILENT);
BS_MSG3_SEND (0,connect_aocc, SILENT);
BS_MSG3_AWAIT(0,connect_acknowledge, SILENT);
```

History: 17.12.97 LE Initial

4.2.8 MIT107: Verification of non-support of services (AoCC), MOC, U4, (11.3)

Description: This test applies to mobile station which do not support Advice of Charge.

Preamble: MIT001

Script:

```
BS_CONFIG_CHANNEL (0, PCH, UNACK, SAPI_0);
BS_MSG3_SEND (0,paging_request_type_1,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, 1, SAPI_0);
BS_MSG3_AWAIT(0,paging_response,SILENT);

BS_MSG3_SEND (0,ciphering_mode_command,SILENT);
BS_MSG3_AWAIT(0,ciphering_mode_complete,SILENT);

BS_MSG3_SEND (0,setup,SILENT);

BS_MSG3_AWAIT(0,call_confirmed,SILENT);

BS_MSG3_SEND (0,facility_msg_aocc, SILENT);
```

History: 17.12.97 LE Initial

4.2.9 MIT108: Verification of non-support of services (AoCC), MTC, U10, (11.3)

Description: This test applies to mobile station which do not support Advice of Charge.

Preamble: MIT001

Script:

```
BS_CONFIG_CHANNEL (0, PCH, UNACK, SAPI_0);
BS_MSG3_SEND (0,paging_request_type_1,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, 1, SAPI_0);
BS_MSG3_AWAIT(0,paging_response,SILENT);

BS_MSG3_SEND (0,authentication_request,SILENT);
BS_MSG3_AWAIT(0,authentication_response,SILENT);

BS_MSG3_SEND (0,ciphering_mode_command,SILENT);
BS_MSG3_AWAIT(0,ciphering_mode_complete,SILENT);

BS_MSG3_SEND (0,setup,SILENT);
BS_MSG3_AWAIT(0,call_confirmed,SILENT);

BS_MSG3_AWAIT(0,alerting,SILENT);

AT_SEND ("ATA\r\n", "hook off");

BS_MSG3_AWAIT(0,connect,SILENT);
BS_MSG3_SEND (0,connect_acknowledge,SILENT);

BS_MSG3_SEND (0,facility_msg_aocc, SILENT);
```

History: 17.12.97 LE Initial

4.3 Initial Tests

4.3.1 MIT109: Channel Request Initial Time (26.2.1.1)

Description: The random access procedure is used by the MS to ask for resources to the network. If it is not performed correctly, the mobile station could prevent other mobile stations from obtaining resources, or the network could be overloaded if the mobile station does not respect the duration between 2 channel requests.

Preamble: MIT001

Script:

```
BS_CONFIG_CHANNEL (0, PCH, UNACK, SAPI_0);
BS_MSG3_SEND (0,paging_request_type_1,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment_reject,SILENT);

ISS_DELAY (10000);
BS_CONFIG_CHANNEL (0, PCH, UNACK, SAPI_0);
BS_MSG3_SEND (0,paging_request_type_1,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment_reject,SILENT);

ISS_DELAY (10000);
BS_CONFIG_CHANNEL (0, PCH, UNACK, SAPI_0);
BS_MSG3_SEND (0,paging_request_type_1,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment_reject,SILENT);

ISS_DELAY (10000);
BS_CONFIG_CHANNEL (0, PCH, UNACK, SAPI_0);
BS_MSG3_SEND (0,paging_request_type_1,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment_reject,SILENT);

ISS_DELAY (10000);
BS_CONFIG_CHANNEL (0, PCH, UNACK, SAPI_0);
BS_MSG3_SEND (0,paging_request_type_1,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment_reject,SILENT);

ISS_DELAY (10000);
BS_CONFIG_CHANNEL (0, PCH, UNACK, SAPI_0);
BS_MSG3_SEND (0,paging_request_type_1,SILENT);
```



```
BS_RACH_AWAIT(0,channel_request,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment_reject,SILENT);

ISS_DELAY (10000);
BS_CONFIG_CHANNEL (0, PCH, UNACK, SAPI_0);
BS_MSG3_SEND (0,paging_request_type_1,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment_reject,SILENT);

ISS_DELAY (10000);
BS_CONFIG_CHANNEL (0, PCH, UNACK, SAPI_0);
BS_MSG3_SEND (0,paging_request_type_1,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment_reject,SILENT);

ISS_DELAY (10000);
BS_CONFIG_CHANNEL (0, PCH, UNACK, SAPI_0);
BS_MSG3_SEND (0,paging_request_type_1,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment_reject,SILENT);

ISS_DELAY (10000);
BS_CONFIG_CHANNEL (0, PCH, UNACK, SAPI_0);
BS_MSG3_SEND (0,paging_request_type_1,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment_reject,SILENT);

ISS_DELAY (10000);
```

History: 17.12.97 LE Initial

4.3.2 MIT110: Channel Request Repetition Time (26.2.1.2)

Description: The random access procedure is used by the MS to ask for resources to the network. If it is not performed correctly, the mobile station could prevent other mobile stations from obtaining resources, or the network could be overloaded if the mobile station does not respect the duration between 2 channel requests.

Preamble: MIT001

Script:

```
BS_CONFIG_CHANNEL (0, PCH, UNACK, SAPI_0);
BS_MSG3_SEND (0,paging_request_type_1,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment_reject,SILENT);

ISS_DELAY (10000);
BS_CONFIG_CHANNEL (0, PCH, UNACK, SAPI_0);
BS_MSG3_SEND (0,paging_request_type_1,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment_reject,SILENT);

ISS_DELAY (10000);
BS_CONFIG_CHANNEL (0, PCH, UNACK, SAPI_0);
BS_MSG3_SEND (0,paging_request_type_1,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment_reject,SILENT);

ISS_DELAY (10000);
BS_CONFIG_CHANNEL (0, PCH, UNACK, SAPI_0);
BS_MSG3_SEND (0,paging_request_type_1,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment_reject,SILENT);

ISS_DELAY (10000);
```

```
BS_CONFIG_CHANNEL (0, PCH, UNACK, SAPI_0);
BS_MSG3_SEND (0,paging_request_type_1,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment_reject,SILENT);

ISS_DELAY (10000);
BS_CONFIG_CHANNEL (0, PCH, UNACK, SAPI_0);
BS_MSG3_SEND (0,paging_request_type_1,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment_reject,SILENT);

ISS_DELAY (10000);
BS_CONFIG_CHANNEL (0, PCH, UNACK, SAPI_0);
BS_MSG3_SEND (0,paging_request_type_1,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment_reject,SILENT);

ISS_DELAY (10000);
BS_CONFIG_CHANNEL (0, PCH, UNACK, SAPI_0);
BS_MSG3_SEND (0,paging_request_type_1,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment_reject,SILENT);

ISS_DELAY (10000);
```

History: 17.12.97 LE Initial

4.3.3 MIT111: Channel Request Random Reference (26.2.1.3)

Description: The random access procedure is used by the MS to ask for resources to the network. If it is not performed correctly, the mobile station could prevent other mobile stations from obtaining resources, or the network could be overloaded if the mobile station does not respect the duration between 2 channel requests.

Preamble: MIT001

Script:

```
BS_CONFIG_CHANNEL (0, PCH, UNACK, SAPI_0);
BS_MSG3_SEND (0,paging_request_type_1,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);

ISS_DELAY (10000);

BS_CONFIG_CHANNEL (0, PCH, UNACK, SAPI_0);
BS_MSG3_SEND (0,paging_request_type_1,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);

ISS_DELAY (10000);
BS_CONFIG_CHANNEL (0, PCH, UNACK, SAPI_0);
BS_MSG3_SEND (0,paging_request_type_1,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);

ISS_DELAY (10000);
BS_CONFIG_CHANNEL (0, PCH, UNACK, SAPI_0);
BS_MSG3_SEND (0,paging_request_type_1,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);
```

History: 17.12.97 LE Initial

4.3.4 MIT112: IMSI Attach / Detach, Procedure 1 (26.2.2)

Description: When the attach-detach flag in the control channel description of the system information type 3 indicates „MS in the cell are not allowed to apply IMSI attach and detach procedure“, the MS shall not perform the IMSI detach procedure upon deactivation.

Preamble: MIT001

Script:

```
AT_SEND ("AT+CFUN=0\r\n", "power off");
```

```
BS_RACH_EXPECT_TIMEOUT (0, 10000);
```

```
AT_SEND ("AT+CFUN=1", "switch on");
```

```
AT_SEND ("AT+COPS=0", "automatic registration");
```

```
BS_RACH_EXPECT_TIMEOUT (0, 10000);
```

History: 17.12.97 LE Initial

4.3.5 MIT113: IMSI Attach / Detach, Procedure 2 (26.2.2)

Description: When the attach-detach flag in the control channel description of the system information type 3 indicates „MS in the cell are not allowed to apply IMSI attach and detach procedure“, the MS shall not perform the IMSI detach procedure upon SIM remove.

Preamble: MIT001

Script:

```
COMMAND ("SIM CONFIG REMOVE") ;
```

```
BS_RACH_EXPECT_TIMEOUT (0, 10000) ;
```

History: 17.12.97 LE Initial

4.3.6 MIT114: IMSI Attach / Detach, Procedure 3 (26.2.2)

Description: When the attach-detach flag in the control channel description of the system information type 3 indicates „MS in the cell are allowed to apply IMSI attach and detach procedure“, the MS shall perform the IMSI attach procedure upon activation and IMSI detach at deactivation.

Preamble: MIT002

Script:

```
BS_RACH_AWAIT(0,channel_request_lup_000,SILENT);
BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);

BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, 1, SAPI_0);
BS_MSG3_AWAIT(0,location_updating_request_attach,SILENT);

BS_MSG3_SEND (0,location_updating_accept_tmsi,SILENT);
BS_MSG3_AWAIT(0,tmsi_reallocation_complete,SILENT);
BS_MSG3_SEND (0,channel_release,SILENT);

ISS_DELAY (10000);

AT_SEND ("AT+CFUN=0\r\n", "power off");

BS_RACH_AWAIT(0,channel_request_detach_111,SILENT);
BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);

BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, 1, SAPI_0);
BS_MSG3_AWAIT(0,imsi_detach_indication,SILENT);

BS_MSG3_SEND (0,channel_release,SILENT);
```

History: 17.12.97 LE Initial

4.3.7 MIT115: IMSI Attach / Detach, Procedure 4 (26.2.2)

Description: When the attach-detach flag in the control channel description of the system information type 3 indicates „MS in the cell are allowed to apply IMSI attach and detach procedure“, the MS shall perform the IMSI attach procedure upon activation and IMSI detach at SIM remove.

Preamble: MIT002

Script:

```
BS_RACH_AWAIT(0,channel_request_lup_000,SILENT);
BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);

BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, 1, SAPI_0);
BS_MSG3_AWAIT(0,location_updating_request_attach,SILENT);

BS_MSG3_SEND (0,location_updating_accept_tmsi,SILENT);
BS_MSG3_AWAIT(0,tmsi_reallocation_complete,SILENT);
BS_MSG3_SEND (0,channel_release,SILENT);

ISS_DELAY (10000);

COMMAND ("SIM CONFIG REMOVE");

BS_RACH_AWAIT(0,channel_request_detach_111,SILENT);
BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);

BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, 1, SAPI_0);
BS_MSG3_AWAIT(0,imsi_detach_indication,SILENT);

BS_MSG3_SEND (0,channel_release,SILENT);
```

History: 17.12.97 LE Initial

4.4 Sequenced MM / CM Transfer

4.4.1 MIT116: Handling of N(S) bit (26.2.3)

Description: The RR sublayer of the MS shall have an associated send state variable V(SD) for sending MM and CM messages. This send state variable has been introduced to avoid the duplication of MM and CM messages. It is useful for the network, after a handover or a change of channel to identify duplicated messages. If the MS started V(SD) with 1 instead of 0 the network would incorrectly diagnose loss of message. If the MS later does not handle correctly incrementation of V(SD) the network will not be able to continue the dialogue.

Preamble: MIT001

Script:

```
BS_CONFIG_CHANNEL (0, PCH, UNACK, SAPI_0);
BS_MSG3_SEND (0,paging_request_type_1,SILENT);
BS_RACH_AWAIT(0,channel_request,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, 1, SAPI_0);
BS_MSG3_AWAIT(0,paging_response,SILENT);

BS_MSG3_SEND (0,identity_request,SILENT);
BS_MSG3_AWAIT(0,identity_response_0,SILENT);
BS_MSG3_SEND (0,identity_request,SILENT);
BS_MSG3_AWAIT(0,identity_response_1,SILENT);
BS_MSG3_SEND (0,identity_request,SILENT);
BS_MSG3_AWAIT(0,identity_response_0,SILENT);
BS_MSG3_SEND (0,identity_request,SILENT);
BS_MSG3_AWAIT(0,identity_response_1,SILENT);
BS_MSG3_SEND (0,identity_request,SILENT);
BS_MSG3_AWAIT(0,identity_response_0,SILENT);
BS_MSG3_SEND (0,identity_request,SILENT);
BS_MSG3_AWAIT(0,identity_response_1,SILENT);
BS_MSG3_SEND (0,identity_request,SILENT);
BS_MSG3_AWAIT(0,identity_response_0,SILENT);

BS_MSG3_SEND (0,channel_release,SILENT);
```

History: 17.12.97 LE Initial

4.5 Establishment Causes

4.5.1 MIT117: Procedure 1 (26.2.4)

Description: The MS supports a service on a traffic channel. When the NECI bit is set to 0 and call reestablishment is attempted and the call was established on a traffic fullrate channel.

Preamble: MIT003

Script:

```
BS_SET_ERROR (0, 4);                /* Radio Link Failure */

SET_TIMEOUT(30000);

BS_RACH_AWAIT(0,channel_request_reest,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment_reject,SILENT);
```

History: 17.12.97 LE Initial

4.5.2 MIT118: Procedure 3 (26.2.4)

Description: The MS supports a service on a traffic channel. When the NECI bit is set to 0 and a call attempt is started by the MS. When the NECI bit is set to 1 and a call attempts is started by the MS.

Preamble: MIT001

Script:

```
AT_SEND ("ATD0493039094117;\r\n", "dial");

BS_RACH_AWAIT(0,channel_request_moc,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment_reject,SILENT);

BS_SET_SYS_INFO ( 0 , system_information_type_1_A2 );
BS_SET_SYS_INFO ( 0 , system_information_type_2_A2 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_A2 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_A2 );

ISS_DELAY (30000);

AT_SEND ("ATD0493039094117;\r\n", "dial");

BS_RACH_AWAIT(0,channel_request_moc,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment_reject,SILENT);
```

History: 17.12.97 LE Initial

4.5.3 MIT119: Procedure 5 (26.2.4)

Description: Various pagings with different channel needed indications shall lead to different establishment causes.

Preamble: MIT001

Script:

```
BS_CONFIG_CHANNEL (0, PCH, UNACK, SAPI_0);
BS_MSG3_SEND (0, paging_request_type_1_any_channel,SILENT);

BS_RACH_AWAIT(0,channel_request_mtc_any,SILENT);
BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment_reject,SILENT);

ISS_DELAY (10000);

BS_CONFIG_CHANNEL (0, PCH, UNACK, SAPI_0);
BS_MSG3_SEND (0, paging_request_type_1_sdcch,SILENT);

BS_RACH_AWAIT(0,channel_request_mtc_sdcch,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment_reject,SILENT);

ISS_DELAY (10000);

BS_CONFIG_CHANNEL (0, PCH, UNACK, SAPI_0);
BS_MSG3_SEND (0, paging_request_type_1_tch_full,SILENT);

BS_RACH_AWAIT(0,channel_request_mtc_tch_full,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment_reject,SILENT);

ISS_DELAY (10000);

BS_CONFIG_CHANNEL (0, PCH, UNACK, SAPI_0);
BS_MSG3_SEND (0, paging_request_type_1_tch_full_or_half,SILENT);

BS_RACH_AWAIT(0,channel_request_mtc_tch_full,SILENT);
BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment_reject,SILENT);
```

History: 17.12.97 LE Initial

4.5.4 MIT120: Procedure 6 (26.2.4)

Description: Various location updating types shall lead to different establishment causes.
A: when the NECI bit is set to 0 and IMSI attach is attempted.
B: when the NECI bit is set to 0 and normal location updating is attempted.
C: when the NECI bit is set to 0 and periodic location updating is attempted.
D: when the NECI bit is set to 0 and IMSI Detach is attempted.
E: when the NECI bit is set to 1 and IMSI attach is attempted.
F: when the NECI bit is set to 1 and normal location updating is attempted.
G: when the NECI bit is set to 1 and periodic location updating is attempted.
H: when the NECI bit is set to 1 and IMSI Detach is attempted.

Preamble: MIT002

Script:

```
COMMAND ("MM CONFIG T3212_CNT=6")
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");
SET_TIMEOUT ( 40000 )

BS_RACH_AWAIT(0,channel_request_lup_000,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, ACK, SAPI_0);
BS_MSG3_AWAIT(0,location_updating_request_attach,SILENT);

BS_MSG3_SEND (0,location_updating_accept,SILENT);
BS_MSG3_SEND (0,channel_release,SILENT);

ISS_DELAY (10000);

BS_SET_SYS_INFO ( 0 , system_information_type_1_A1 );
BS_SET_SYS_INFO ( 0 , system_information_type_2_A1 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_A1 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_A1 );

SET_TIMEOUT (30000);

BS_RACH_AWAIT(0,channel_request_lup_000,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, ACK, SAPI_0);
BS_MSG3_AWAIT(0,location_updating_request_normal,SILENT);

BS_MSG3_SEND (0,location_updating_accept_B,SILENT);
BS_MSG3_SEND (0,channel_release,SILENT);

ISS_DELAY (10000);

SET_TIMEOUT (60000);

BS_RACH_AWAIT(0,channel_request_lup_000,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
```

```
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, ACK, SAPI_0);
BS_MSG3_AWAIT(0,location Updating_request_periodic,SILENT);

BS_MSG3_SEND (0,location Updating_accept_B,SILENT);
BS_MSG3_SEND (0,channel_release,SILENT);

ISS_DELAY (10000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");

BS_RACH_AWAIT(0,channel_request_detach_111,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment_reject,SILENT);

BS_SET_SYS_INFO ( 0 , system_information_type_1_A2 );
BS_SET_SYS_INFO ( 0 , system_information_type_2_A2 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_A2_B );
BS_SET_SYS_INFO ( 0 , system_information_type_4_A2_B );

ISS_DELAY (10000);

AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");
COMMAND ("MM CONFIG T3212_CNT=6")

BS_RACH_AWAIT(0,channel_request_lup_0000,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, ACK, SAPI_0);
BS_MSG3_AWAIT(0,location Updating_request_attach_B,SILENT);

BS_MSG3_SEND (0,location Updating_accept_B,SILENT);
BS_MSG3_SEND (0,channel_release,SILENT);

ISS_DELAY (10000);

BS_SET_SYS_INFO ( 0 , system_information_type_1_A3 );
BS_SET_SYS_INFO ( 0 , system_information_type_2_A3 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_A3 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_A3 );

SET_TIMEOUT (30000);

BS_RACH_AWAIT(0,channel_request_lup_0000,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, ACK, SAPI_0);
BS_MSG3_AWAIT(0,location Updating_request_normal_B,SILENT);

BS_MSG3_SEND (0,location Updating_accept,SILENT);
```

```
BS_MSG3_SEND (0,channel_release,SILENT);

ISS_DELAY (10000);

SET_TIMEOUT (80000);

BS_RACH_AWAIT(0,channel_request_lup_0000,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, ACK, SAPI_0);
BS_MSG3_AWAIT(0,location_updating_request_periodic_B,SILENT);

BS_MSG3_SEND (0,location_updating_accept,SILENT);
BS_MSG3_SEND (0,channel_release,SILENT);

ISS_DELAY (20000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");

BS_RACH_AWAIT(0,channel_request_detach_0001,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment_reject,SILENT);
```

History: 17.12.97 LE Initial

4.5.5 MIT121: Procedure 7 (26.2.4)

Description: The procedure is performed for mobiles supporting a non call related supplementary service operation.

Preamble: MIT001

Script:

```
AT_SEND ("ATD**61*00431234*11*5#\r\n", SILENT);

BS_RACH_AWAIT(0,channel_request_ss_111,SILENT);
BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment_reject,SILENT);

ISS_DELAY (20000);

BS_SET_SYS_INFO ( 0 , system_information_type_1_A2 );
BS_SET_SYS_INFO ( 0 , system_information_type_2_A2 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_A2 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_A2 );

ISS_DELAY (40000);

AT_SEND ("ATD**61*00431234*11*5#\r\n", SILENT);

BS_RACH_AWAIT(0,channel_request_ss_0001,SILENT);

BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment_reject,SILENT);
```

History: 17.12.97 LE Initial

4.5.6 MIT122: Procedure 8 (26.2.4)

Description: The procedure is performed for mobiles supporting short message services.

Preamble: MIT001

Script:

```
AT_SEND ("AT+CSCA=\"12345678\",145\r\n", SILENT);
AT_SEND ("AT+CSMP=18,03,0,0\r\n", SILENT)
AT_SEND ("AT+CMGF=1\r\n", "enter text mode as PDU mode is default")
AT_SEND ("AT+CMGS=\"5678\",145\r\n", SILENT)
AT_SEND ("HALLIHALLO\r\n", SILENT)
```

```
BS_RACH_AWAIT(0,channel_request_sms_111,SILENT);
BS_RACH_AWAIT(0,channel_request_sms_111,SILENT);
```

```
BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment_reject,SILENT);
```

```
ISS_DELAY (20000)
```

```
BS_SET_SYS_INFO ( 0 , system_information_type_1_A2 );
BS_SET_SYS_INFO ( 0 , system_information_type_2_A2 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_A2 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_A2 );
```

```
ISS_DELAY (40000);
```

```
AT_SEND ("AT+CSCA=\"12345678\",145\r\n", SILENT);
AT_SEND ("AT+CSMP=18,03,0,0\r\n", SILENT)
AT_SEND ("AT+CMGS=\"5678\",145\r\n", SILENT)
AT_SEND ("HALLIHALLO\r\n", SILENT)
```

```
BS_RACH_AWAIT(0,channel_request_sms_0001,SILENT);
BS_RACH_AWAIT(0,channel_request_sms_0001,SILENT);
```

```
BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment_reject,SILENT);
```

History: 17.12.97 LE Initial

4.6 Additional Multilayer Tests

4.6.1 MIT200: Change of BCCH parameters

Description: The change of BCCH parameters shall be detected by RR and the layer 1 shall be re-configured.

Preamble: MIT001

Script:

```
ISS_DELAY (20000)
```

```
BS_SET_SYS_INFO ( 0 , system_information_type_3_changed )
```

```
ISS_DELAY (20000)
```

History: 17.03.98 LE Initial

4.6.2 MIT201: Start SS transaction during PLMN available search

Description: A PLMN available search is started. During the search a SS transaction is started.

Preamble: MIT001

Script:

```
AT_SEND ("AT+COPS=?\r\n", "start PLMN available search");  
AT_SEND ("ABORT\r\n", "abort PLMN search");  
AT_SEND ("ATD*#31#\r\n", "Start supplementary service");  
  
BS_RACH_AWAIT(0,channel_request_ss_111,SILENT);
```

History: 17.03.98 LE Initial

4.7 SIM Tests (Chapter 27)

4.7.1 MIT300: Forbidden PLMNs, location updating and undefined cipher key

Description: A list of forbidden PLMNs stored in the SIM and providing storage for up to 4 entries is managed by the MS. In automatic PLMN selection mode the MS controls location updating attempts to appropriate networks with respect to this list of forbidden PLMNs. As a result of a location updating reject with the cause PLMN not allowed the MS stores the PLMN which rejected the update request in the SIM. After a location update, which is not followed by an authentication procedure, the cipher key sequence number indicates that the cipher key is undefined.

Preamble: MIT004

Script:

```
ISS_DELAY (20000)
BS_ON_OFF ( 0 , FALSE );
ISS_DELAY (30000)

BS_SET_SYS_INFO ( 0 , system_information_type_3_27_5_B )
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_5_B )

BS_ON_OFF ( 0 , TRUE );

ISS_DELAY (20000)

BS_ON_OFF ( 0 , FALSE );
    BS_SET_ERROR ( 0 , 7 );                                /* Downlink Failure */
ISS_DELAY (30000)

BS_SET_SYS_INFO ( 0 , system_information_type_3_27_5_C )
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_5_C )

BS_ON_OFF ( 0 , TRUE );

ISS_DELAY (20000)
    BS_SET_ERROR ( 0 , 7 );                                /* Downlink Failure */
BS_ON_OFF ( 0 , FALSE );
ISS_DELAY (30000)

BS_SET_SYS_INFO ( 0 , system_information_type_3_27_5_D )
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_5_D )

BS_ON_OFF ( 0 , TRUE );

ISS_DELAY (20000)
BS_ON_OFF ( 0 , FALSE );
    BS_SET_ERROR ( 0 , 7 );                                /* Downlink Failure */
ISS_DELAY (30000)

BS_SET_SYS_INFO ( 0 , system_information_type_3_27_5_E )
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_5_E )

BS_ON_OFF ( 0 , TRUE );

SET_TIMEOUT (60000)

BS_RACH_AWAIT(0,channel_request_lup_000,SILENT);
BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);
```

```
BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, 1, SAPI_0);
BS_MSG3_AWAIT(0,location_updating_request_normal_27_5_1,SILENT);

    BS_MSG3_SEND_BEGIN ( 0, location_updating_reject, "P4: Reject cause = PLMN not allowed." )
        BF_SET_VAL ( reject_cause, 0x0B, "PLMN not allowed" )
    BS_MSG3_SEND_END( )
BS_MSG3_SEND (0,channel_release,SILENT);

ISS_DELAY (20000)
BS_ON_OFF ( 0 , FALSE );
ISS_DELAY (5000)
    BS_SET_ERROR ( 0, 7 ); /* Downlink Failure */
ISS_DELAY (30000)

BS_SET_SYS_INFO ( 0 , system_information_type_3_27_5_F )
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_5_F )

BS_ON_OFF ( 0 , TRUE );

BS_RACH_AWAIT(0,channel_request_lup_000,SILENT);
BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);

BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, 1, SAPI_0);
BS_MSG3_AWAIT(0,location_updating_request_normal_27_5_2,SILENT);

BS_MSG3_SEND (0,location_updating_accept_tmsi,SILENT);
BS_MSG3_AWAIT(0,tmsi_reallocation_complete,SILENT);
BS_MSG3_SEND (0,channel_release,SILENT);

ISS_DELAY (10000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");
```

History: 17.03.98 LE Initial

4.7.2 MIT302: Forbidden PLMNs, location updating and undefined cipher key (II)

Description: A list of forbidden PLMNs stored in the SIM and providing storage for up to 4 entries is managed by the MS. In automatic PLMN selection mode the MS controls location updating attempts to appropriate networks with respect to this list of forbidden PLMNs. As a result of a location updating reject with the cause PLMN not allowed the MS stores the PLMN which rejected the update request in the SIM. The carrier is switched off immediately.
After a location update, which is not followed by an authentication procedure, the cipher key sequence number indicates that the cipher key is undefined.

Preamble: MIT004

Script:

```
ISS_DELAY (20000)
BS_ON_OFF ( 0 , FALSE );
ISS_DELAY (30000)

BS_SET_SYS_INFO ( 0 , system_information_type_3_27_5_B )
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_5_B )

BS_ON_OFF ( 0 , TRUE );

ISS_DELAY (20000)

BS_ON_OFF ( 0 , FALSE );
    BS_SET_ERROR ( 0, 7 );                                /* Downlink Failure */
ISS_DELAY (30000)

BS_SET_SYS_INFO ( 0 , system_information_type_3_27_5_C )
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_5_C )

BS_ON_OFF ( 0 , TRUE );

ISS_DELAY (20000)
    BS_SET_ERROR ( 0, 7 );                                /* Downlink Failure */
BS_ON_OFF ( 0 , FALSE );
ISS_DELAY (30000)

BS_SET_SYS_INFO ( 0 , system_information_type_3_27_5_D )
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_5_D )

BS_ON_OFF ( 0 , TRUE );

ISS_DELAY (20000)
BS_ON_OFF ( 0 , FALSE );
    BS_SET_ERROR ( 0, 7 );                                /* Downlink Failure */
ISS_DELAY (30000)

BS_SET_SYS_INFO ( 0 , system_information_type_3_27_5_E )
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_5_E )

BS_ON_OFF ( 0 , TRUE );

SET_TIMEOUT (60000)

BS_RACH_AWAIT(0,channel_request_lup_000,SILENT);
BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);

BS_STORE_RACH_PARAMS (0, 0);
```

```
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, 1, SAPI_0);
BS_MSG3_AWAIT(0,location Updating_request_normal_27_5_1,SILENT);

    BS_MSG3_SEND_BEGIN ( 0, location Updating_reject, "P4: Reject cause = PLMN not allowed." )
        BF_SET_VAL      ( reject_cause, 0x0B,      "PLMN not allowed" )
    BS_MSG3_SEND_END( )
BS_MSG3_SEND (0,channel_release,SILENT);

BS_ON_OFF ( 0 , FALSE );
    BS_SET_ERROR ( 0, 7 );                                /* Downlink Failure */
ISS_DELAY (30000)

BS_SET_SYS_INFO ( 0 , system_information_type_3_27_5_F )
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_5_F )

BS_ON_OFF ( 0 , TRUE );

BS_RACH_AWAIT(0,channel_request_lup_000,SILENT);
BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);

BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, 1, SAPI_0);
BS_MSG3_AWAIT(0,location Updating_request_normal_27_5_2,SILENT);

BS_MSG3_SEND (0,location Updating_accept_tmsi,SILENT);
BS_MSG3_AWAIT(0,tmsi_reallocation_complete,SILENT);
BS_MSG3_SEND (0,channel_release,SILENT);

ISS_DELAY (10000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");
```

History: 17.03.98 LE Initial

4.7.3 MIT301: MS deleting forbidden PLMNs

Description: In manual PLMN selection mode the MS allows location update attempts to all available PLMNs, including forbidden PLMNs (as indicated by the forbidden PLMN list on the SIM). As a result of a successful location update procedure onto a PLMN which is in the forbidden PLMN list, the forbidden PLMN list is automatically updated by the MS.

Preamble: MIT005

Script:

```
ISS_DELAY (20000)

AT_SEND ("AT+COPS=1,2,\"23401\"\\r\\n", SILENT)

BS_RACH_AWAIT(0,channel_request_lup_000,SILENT);
BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);

BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, 1, SAPI_0);
BS_MSG3_AWAIT(0,location_updating_request_normal_27_7,SILENT);

BS_MSG3_SEND (0,location_updating_accept_tmsi_27_7,SILENT);
BS_MSG3_AWAIT(0,tmsi_reallocation_complete,SILENT);
BS_MSG3_SEND (0,channel_release,SILENT);

ISS_DELAY (10000);

AT_SEND ("AT+CFUN=0\\r\\n", SILENT)

ISS_DELAY (10000);
```

History: 17.03.98 LE Initial

4.7.4 MIT310: Access Control Management (27.10 a)

Description: Access Control allows restriction of call access attempts. All mobile stations are assigned to a low order class, and optionally (for priority uses) also to one or more high order classes.

Preamble: None

Script:

```
ISS_INIT (1);

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_A );
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_A );
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_A );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_A );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

COMMAND ("SIM CONFIG MODE=1"); /* No SIM */
SET_TIMEOUT (20000)
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_RECEIVE ("ERROR", "expect ERROR due to no SIM");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

ISS_DELAY (20000)

/*
 * Try normal call, shall not be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
AT_RECEIVE ("NO CARRIER", SILENT);

/*
 * Try emergency call, shall not be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
AT_RECEIVE ("NO CARRIER", SILENT);

ISS_DELAY (10000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");
```

History: 17.03.98 LE Initial

4.7.5 MIT311: Access Control Management (27.10 b)

Description: Access Control allows restriction of call access attempts. All mobile stations are assigned to a low order class, and optionally (for priority uses) also to one or more high order classes.

Preamble: None

Script:

```
ISS_INIT (1);

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_B );
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_B );
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_B );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_B );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

COMMAND ("SIM CONFIG MODE=1"); /* No SIM */
SET_TIMEOUT (20000)
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_RECEIVE ("ERROR", "expect ERROR due to no SIM");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

ISS_DELAY (20000)

/*
 * Try normal call, shall not be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
AT_RECEIVE ("NO CARRIER", SILENT);

/*
 * Try emergency call, shall be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_ec,SILENT);

ISS_DELAY (10000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");
```

History: 17.03.98 LE Initial

4.7.6 MIT312: Access Control Management (27.10 c)

Description: Access Control allows restriction of call access attempts. All mobile stations are assigned to a low order class, and optionally (for priority uses) also to one or more high order classes.

Preamble: None

Script:

```
ISS_INIT (1);

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_C );
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_C );
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_C );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_C );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

COMMAND ("SIM CONFIG MODE=54"); /* Special SIM */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

SET_TIMEOUT (40000);

ISS_DELAY (10000);

/*
 * abort registration due to MM problem
 */
AT_SEND ("ABORT", SILENT);
AT_RECEIVE ("OK", SILENT);

/*
 * Try normal call, shall not be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
AT_RECEIVE ("NO CARRIER", SILENT);

/*
 * Try emergency call, shall not be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
AT_RECEIVE ("NO CARRIER", SILENT);

ISS_DELAY (10000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");
```

History: 17.03.98 LE Initial

4.7.7 MIT313: Access Control Management (27.10 d)

Description: Access Control allows restriction of call access attempts. All mobile stations are assigned to a low order class, and optionally (for priority uses) also to one or more high order classes.

Preamble: None

Script:

```
ISS_INIT (1);

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_D );
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_D );
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_D );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_D );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

COMMAND ("SIM CONFIG MODE=55"); /* Special SIM */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

SET_TIMEOUT (40000);

ISS_DELAY (20000);

/*
 * abort registration due to MM problem
 */
AT_SEND ("ABORT", SILENT);
AT_RECEIVE ("OK", SILENT);

/*
 * Try normal call, shall not be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
AT_RECEIVE ("NO CARRIER", SILENT);

/*
 * Try emergency call, shall be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_ec,SILENT);

ISS_DELAY (10000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");
```

History: 17.03.98 LE Initial

4.7.8 MIT314: Access Control Management (27.10 e)

Description: Access Control allows restriction of call access attempts. All mobile stations are assigned to a low order class, and optionally (for priority uses) also to one or more high order classes.

Preamble: None

Script:

```
ISS_INIT (1);

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_E );
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_E );
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_E );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_E );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

COMMAND ("SIM CONFIG MODE=56"); /* Special SIM */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

SET_TIMEOUT (40000);

BS_RACH_AWAIT(0,channel_request_lup_000,SILENT);
BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);

BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, 1, SAPI_0);
BS_MSG3_AWAIT(0,location_updating_request_27_10_E,SILENT);

BS_MSG3_SEND (0,location_updating_accept_27_10_E,SILENT);
BS_MSG3_SEND (0,channel_release,SILENT);

ISS_DELAY (10000);

/*
 * Try normal call, shall be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_moc,SILENT);

ISS_DELAY (10000)
/*
 * Try emergency call, shall be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_ec,SILENT);

ISS_DELAY (10000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");
```

History: 17.03.98 LE Initial

4.7.9 MIT315: Access Control Management (27.10 f, Part 1)

Description: Access Control allows restriction of call access attempts. All mobile stations are assigned to a low order class, and optionally (for priority uses) also to one or more high order classes.

Preamble: None

Script:

```
ISS_INIT (1);

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_F_1 );
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_F_1 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_F_1 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_F_1 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

COMMAND ("SIM CONFIG MODE=57"); /* Special SIM */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

SET_TIMEOUT (40000);

ISS_DELAY (20000);

/*
 * abort registration due to MM problem
 */
AT_SEND ("ABORT", SILENT);
AT_RECEIVE ("OK", SILENT);

/*
 * Try normal call, shall not be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
AT_RECEIVE ("NO CARRIER", SILENT);

ISS_DELAY (10000);

/*
 * Try emergency call, shall not be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
AT_RECEIVE ("NO CARRIER", SILENT);

ISS_DELAY (10000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");

ISS_DELAY (5000);

/* PART 2 */

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_F_2 );
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_F_2 );
```

```
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_F_2 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_F_2 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

COMMAND ("SIM CONFIG MODE=57"); /* Special SIM */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

SET_TIMEOUT (40000);

ISS_DELAY (20000);

/*
 * abort registration due to MM problem
 */
AT_SEND ("ABORT", SILENT);
AT_RECEIVE ("OK", SILENT);

/*
 * Try normal call, shall not be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
AT_RECEIVE ("NO CARRIER", SILENT);

ISS_DELAY (10000);

/*
 * Try emergency call, shall be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_ec,SILENT);

ISS_DELAY (10000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");

ISS_DELAY (5000);

/* PART 3 */

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_F_3 );
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_F_3 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_F_3 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_F_3 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

COMMAND ("SIM CONFIG MODE=57"); /* Special SIM */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
```



```
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

SET_TIMEOUT (40000);

BS_RACH_AWAIT(0,channel_request_lup_000,SILENT);
BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);

BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, 1, SAPI_0);
BS_MSG3_AWAIT(0,location_updating_request_27_10_F,SILENT);

BS_MSG3_SEND (0,location_updating_accept_27_10_F,SILENT);
BS_MSG3_SEND (0,channel_release,SILENT);

ISS_DELAY (20000);

/*
 * Try normal call, shall be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_moc,SILENT);

ISS_DELAY (10000)
/*
 * Try emergency call, shall be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_ec,SILENT);

ISS_DELAY (10000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");
```

History: 17.03.98 LE Initial

4.7.10 MIT316: Access Control Management (27.10 f, Part 2)

Description: Access Control allows restriction of call access attempts. All mobile stations are assigned to a low order class, and optionally (for priority uses) also to one or more high order classes.

Preamble: None

Script:

```
ISS_INIT (1);

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_F_4 );
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_F_4 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_F_4 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_F_4 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

COMMAND ("SIM CONFIG MODE=58"); /* Special SIM */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

SET_TIMEOUT (40000);

ISS_DELAY (20000);

/*
 * abort registration due to MM problem
 */
AT_SEND ("ABORT", SILENT);
AT_RECEIVE ("OK", SILENT);

/*
 * Try normal call, shall not be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
AT_RECEIVE ("NO CARRIER", SILENT);

ISS_DELAY (10000);

/*
 * Try emergency call, shall not be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
AT_RECEIVE ("NO CARRIER", SILENT);

ISS_DELAY (10000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");

ISS_DELAY (5000);

/* PART 2 */

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_F_5 );
```

```
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_F_5 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_F_5 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_F_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

COMMAND ("SIM CONFIG MODE=58"); /* Special SIM */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

SET_TIMEOUT (40000);

ISS_DELAY (20000);

/*
 * abort registration due to MM problem
 */
AT_SEND ("ABORT", SILENT);
AT_RECEIVE ("OK", SILENT);

/*
 * Try normal call, shall not be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
AT_RECEIVE ("NO CARRIER", SILENT);

ISS_DELAY (30000);

/*
 * Try emergency call, shall be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_ec,SILENT);

ISS_DELAY (20000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");

ISS_DELAY (10000);

/* PART 3 */

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_F_6 );
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_F_6 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_F_6 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_F_6 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );
```

```
COMMAND ("SIM CONFIG MODE=58"); /* Special SIM */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

SET_TIMEOUT (40000);

BS_RACH_AWAIT(0,channel_request_lup_000,SILENT);
BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);

BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, 1, SAPI_0);
BS_MSG3_AWAIT(0,location_updating_request_27_10_F,SILENT);

BS_MSG3_SEND (0,location_updating_accept_27_10_F2,SILENT);
BS_MSG3_SEND (0,channel_release,SILENT);

ISS_DELAY (20000);

/*
 * Try normal call, shall be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_moc,SILENT);

ISS_DELAY (20000)
/*
 * Try emergency call, shall be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_ec,SILENT);

ISS_DELAY (10000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");
```

History: 17.03.98 LE Initial

4.7.11 MIT317: Access Control Management (27.10 f, Part 3)

Description: Access Control allows restriction of call access attempts. All mobile stations are assigned to a low order class, and optionally (for priority uses) also to one or more high order classes.

Preamble: None

Script:

```
ISS_INIT (1);

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_F_7 );
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_F_7 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_F_7 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_F_7 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

COMMAND ("SIM CONFIG MODE=59"); /* Special SIM */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

SET_TIMEOUT (40000);

ISS_DELAY (20000);

/*
 * abort registration due to MM problem
 */
AT_SEND ("ABORT", SILENT);
AT_RECEIVE ("OK", SILENT);

/*
 * Try normal call, shall not be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
AT_RECEIVE ("NO CARRIER", SILENT);

ISS_DELAY (30000);

/*
 * Try emergency call, shall not be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
AT_RECEIVE ("NO CARRIER", SILENT);

ISS_DELAY (30000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");

ISS_DELAY (10000);

/* PART 2 */

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_F_8 );
```

```
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_F_8 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_F_8 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_F_8 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

COMMAND ("SIM CONFIG MODE=59"); /* Special SIM */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

SET_TIMEOUT (40000);

ISS_DELAY (20000);

/*
 * abort registration due to MM problem
 */
AT_SEND ("ABORT", SILENT);
AT_RECEIVE ("OK", SILENT);

/*
 * Try normal call, shall not be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
AT_RECEIVE ("NO CARRIER", SILENT);

ISS_DELAY (30000);

/*
 * Try emergency call, shall be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_ec,SILENT);

ISS_DELAY (20000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");

ISS_DELAY (10000);

/* PART 3 */

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_F_9 );
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_F_9 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_F_9 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_F_9 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );
```

```
COMMAND ("SIM CONFIG MODE=59");          /* Special SIM      */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

SET_TIMEOUT (40000);

BS_RACH_AWAIT(0,channel_request_lup_000,SILENT);
BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);

BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, 1, SAPI_0);
BS_MSG3_AWAIT(0,location Updating_request_27_10_F,SILENT);

BS_MSG3_SEND (0,location Updating_accept_27_10_F2,SILENT);
BS_MSG3_SEND (0,channel_release,SILENT);

ISS_DELAY (20000);

/*
 * Try normal call, shall be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_moc,SILENT);

ISS_DELAY (20000)
/*
 * Try emergency call, shall be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_ec,SILENT);

ISS_DELAY (10000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");
```

History: 17.03.98 LE Initial

4.7.12 MIT318: Access Control Management (27.10 f, Part 4)

Description: Access Control allows restriction of call access attempts. All mobile stations are assigned to a low order class, and optionally (for priority uses) also to one or more high order classes.

Preamble: None

Script:

```
ISS_INIT (1);

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_F_10 );
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_F_10 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_F_10 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_F_10 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

COMMAND ("SIM CONFIG MODE=60"); /* Special SIM */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

SET_TIMEOUT (40000);

ISS_DELAY (20000);

/*
 * abort registration due to MM problem
 */
AT_SEND ("ABORT", SILENT);
AT_RECEIVE ("OK", SILENT);

/*
 * Try normal call, shall not be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
AT_RECEIVE ("NO CARRIER", SILENT);

ISS_DELAY (30000);

/*
 * Try emergency call, shall not be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
AT_RECEIVE ("NO CARRIER", SILENT);

ISS_DELAY (30000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");

ISS_DELAY (10000);

/* PART 2 */

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_F_11 );
```



```
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_F_11 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_F_11 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_F_11 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

COMMAND ("SIM CONFIG MODE=60"); /* Special SIM */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

SET_TIMEOUT (40000);

ISS_DELAY (20000);

/*
 * abort registration due to MM problem
 */
AT_SEND ("ABORT", SILENT);
AT_RECEIVE ("OK", SILENT);

/*
 * Try normal call, shall not be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
AT_RECEIVE ("NO CARRIER", SILENT);

ISS_DELAY (30000);

/*
 * Try emergency call, shall be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_ec,SILENT);

ISS_DELAY (20000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");

ISS_DELAY (10000);

/* PART 3 */

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_F_12 );
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_F_12 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_F_12 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_F_12 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );
```

```
COMMAND ("SIM CONFIG MODE=60"); /* Special SIM */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

SET_TIMEOUT (40000);

BS_RACH_AWAIT(0,channel_request_lup_000,SILENT);
BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);

BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, 1, SAPI_0);
BS_MSG3_AWAIT(0,location_updating_request_27_10_F,SILENT);

BS_MSG3_SEND (0,location_updating_accept_27_10_F2,SILENT);
BS_MSG3_SEND (0,channel_release,SILENT);

ISS_DELAY (20000);

/*
 * Try normal call, shall be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_moc,SILENT);

ISS_DELAY (20000)
/*
 * Try emergency call, shall be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_ec,SILENT);

ISS_DELAY (10000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");
```

History: 17.03.98 LE Initial

4.7.13 MIT319: Access Control Management (27.10 f, Part 5)

Description: Access Control allows restriction of call access attempts. All mobile stations are assigned to a low order class, and optionally (for priority uses) also to one or more high order classes.

Preamble: None

Script:

```
ISS_INIT (1);

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_F_13 );
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_F_13 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_F_13 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_F_13 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

COMMAND ("SIM CONFIG MODE=61"); /* Special SIM */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

SET_TIMEOUT (40000);

ISS_DELAY (20000);

/*
 * abort registration due to MM problem
 */
AT_SEND ("ABORT", SILENT);
AT_RECEIVE ("OK", SILENT);

/*
 * Try normal call, shall not be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
AT_RECEIVE ("NO CARRIER", SILENT);

ISS_DELAY (30000);

/*
 * Try emergency call, shall not be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
AT_RECEIVE ("NO CARRIER", SILENT);

ISS_DELAY (30000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");

ISS_DELAY (10000);

/* PART 2 */

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_F_14 );
```

```
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_F_14 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_F_14 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_F_14 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

COMMAND ("SIM CONFIG MODE=61"); /* Special SIM */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

SET_TIMEOUT (40000);

ISS_DELAY (20000);

/*
 * abort registration due to MM problem
 */
AT_SEND ("ABORT", SILENT);
AT_RECEIVE ("OK", SILENT);

/*
 * Try normal call, shall not be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
AT_RECEIVE ("NO CARRIER", SILENT);

ISS_DELAY (30000);

/*
 * Try emergency call, shall be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_ec,SILENT);

ISS_DELAY (20000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");

ISS_DELAY (10000);

/* PART 3 */

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_F_15 );
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_F_15 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_F_15 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_F_15 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );
```

```
COMMAND ("SIM CONFIG MODE=61");          /* Special SIM      */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

SET_TIMEOUT (40000);

BS_RACH_AWAIT(0,channel_request_lup_000,SILENT);
BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);

BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, 1, SAPI_0);
BS_MSG3_AWAIT(0,location_updating_request_27_10_F,SILENT);

BS_MSG3_SEND (0,location_updating_accept_27_10_F,SILENT);
BS_MSG3_SEND (0,channel_release,SILENT);

ISS_DELAY (20000);

/*
 * Try normal call, shall be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_moc,SILENT);

ISS_DELAY (20000)
/*
 * Try emergency call, shall be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_ec,SILENT);

ISS_DELAY (10000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");
```

History: 17.03.98 LE Initial

4.7.14 MIT320: Access Control Management (27.10 g, Part 1)

Description: Access Control allows restriction of call access attempts. All mobile stations are assigned to a low order class, and optionally (for priority uses) also to one or more high order classes.

Preamble: None

Script:

```
ISS_INIT (1);

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_G_1 );
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_G_1 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_G_1 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_G_1 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

COMMAND ("SIM CONFIG MODE=62"); /* Special SIM */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

SET_TIMEOUT (40000);

ISS_DELAY (20000);

/*
 * abort registration due to MM problem
 */
AT_SEND ("ABORT", SILENT);
AT_RECEIVE ("OK", SILENT);

/*
 * Try normal call, shall not be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
AT_RECEIVE ("NO CARRIER", SILENT);

ISS_DELAY (30000);

/*
 * Try emergency call, shall not be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
AT_RECEIVE ("NO CARRIER", SILENT);

ISS_DELAY (30000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");

ISS_DELAY (10000);

/* PART 2 */

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_G_2 );
```

```
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_G_2 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_G_2 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_G_2 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

COMMAND ("SIM CONFIG MODE=62"); /* Special SIM */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

SET_TIMEOUT (40000);

ISS_DELAY (20000);

/*
 * abort registration due to MM problem
 */
AT_SEND ("ABORT", SILENT);
AT_RECEIVE ("OK", SILENT);

/*
 * Try normal call, shall not be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
AT_RECEIVE ("NO CARRIER", SILENT);

ISS_DELAY (30000);

/*
 * Try emergency call, shall be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_ec,SILENT);

ISS_DELAY (20000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");

ISS_DELAY (10000);
```

History: 17.03.98 LE Initial

4.7.15 MIT321: Access Control Management (27.10 g, Part 2)

Description: Access Control allows restriction of call access attempts. All mobile stations are assigned to a low order class, and optionally (for priority uses) also to one or more high order classes.

Preamble: None

Script:

```
ISS_INIT (1);

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_G_3 );
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_G_3 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_G_3 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_G_3 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

COMMAND ("SIM CONFIG MODE=63"); /* Special SIM */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

SET_TIMEOUT (40000);

ISS_DELAY (20000);

/*
 * abort registration due to MM problem
 */
AT_SEND ("ABORT", SILENT);
AT_RECEIVE ("OK", SILENT);

/*
 * Try normal call, shall not be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
AT_RECEIVE ("NO CARRIER", SILENT);

ISS_DELAY (30000);

/*
 * Try emergency call, shall not be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
AT_RECEIVE ("NO CARRIER", SILENT);

ISS_DELAY (30000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");

ISS_DELAY (10000);

/* PART 2 */

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_G_4 );
```



```
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_G_4 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_G_4 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_G_4 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

COMMAND ("SIM CONFIG MODE=63"); /* Special SIM */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

SET_TIMEOUT (40000);

ISS_DELAY (20000);

/*
 * abort registration due to MM problem
 */
AT_SEND ("ABORT", SILENT);
AT_RECEIVE ("OK", SILENT);

/*
 * Try normal call, shall not be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
AT_RECEIVE ("NO CARRIER", SILENT);

ISS_DELAY (30000);

/*
 * Try emergency call, shall be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_ec,SILENT);

ISS_DELAY (20000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

ISS_DELAY (10000);
```

History: 17.03.98 LE Initial

4.7.16 MIT322: Access Control Management (27.10 g, Part 3)

Description: Access Control allows restriction of call access attempts. All mobile stations are assigned to a low order class, and optionally (for priority uses) also to one or more high order classes.

Preamble: None

Script:

```
ISS_INIT (1);

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_G_5 );
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_G_5 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_G_5 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_G_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

COMMAND ("SIM CONFIG MODE=64"); /* Special SIM */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

SET_TIMEOUT (40000);

ISS_DELAY (20000);

/*
 * abort registration due to MM problem
 */
AT_SEND ("ABORT", SILENT);
AT_RECEIVE ("OK", SILENT);

/*
 * Try normal call, shall not be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
AT_RECEIVE ("NO CARRIER", SILENT);

ISS_DELAY (30000);

/*
 * Try emergency call, shall not be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
AT_RECEIVE ("NO CARRIER", SILENT);

ISS_DELAY (30000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");

ISS_DELAY (10000);

/* PART 2 */

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_G_6 );
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_G_6 );
```

```
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_G_6 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_G_6 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

COMMAND ("SIM CONFIG MODE=64"); /* Special SIM */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

SET_TIMEOUT (40000);

ISS_DELAY (20000);

/*
 * abort registration due to MM problem
 */
AT_SEND ("ABORT", SILENT);
AT_RECEIVE ("OK", SILENT);

/*
 * Try normal call, shall not be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
AT_RECEIVE ("NO CARRIER", SILENT);

ISS_DELAY (30000);

/*
 * Try emergency call, shall be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_ec,SILENT);

ISS_DELAY (20000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");

ISS_DELAY (10000);
```

History: 17.03.98 LE Initial

4.7.17 MIT323: Access Control Management (27.10 g, Part 4)

Description: Access Control allows restriction of call access attempts. All mobile stations are assigned to a low order class, and optionally (for priority uses) also to one or more high order classes.

Preamble: None

Script:

```
ISS_INIT (1);

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_G_7 );
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_G_7 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_G_7 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_G_7 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

COMMAND ("SIM CONFIG MODE=65"); /* Special SIM */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

SET_TIMEOUT (40000);

ISS_DELAY (20000);

/*
 * abort registration due to MM problem
 */
AT_SEND ("ABORT", SILENT);
AT_RECEIVE ("OK", SILENT);

/*
 * Try normal call, shall not be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
AT_RECEIVE ("NO CARRIER", SILENT);

ISS_DELAY (30000);

/*
 * Try emergency call, shall not be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
AT_RECEIVE ("NO CARRIER", SILENT);

ISS_DELAY (30000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");

ISS_DELAY (10000);

/* PART 2 */

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_G_8 );
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_G_8 );
```

```
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_G_8 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_G_8 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

COMMAND ("SIM CONFIG MODE=65"); /* Special SIM */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

SET_TIMEOUT (40000);

ISS_DELAY (20000);

/*
 * abort registration due to MM problem
 */
AT_SEND ("ABORT", SILENT);
AT_RECEIVE ("OK", SILENT);

/*
 * Try normal call, shall not be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
AT_RECEIVE ("NO CARRIER", SILENT);

ISS_DELAY (30000);

/*
 * Try emergency call, shall be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_ec,SILENT);

ISS_DELAY (20000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");

ISS_DELAY (10000);
```

History: 17.03.98 LE Initial

4.7.18 MIT324: Access Control Management (27.10 g, Part 5)

Description: Access Control allows restriction of call access attempts. All mobile stations are assigned to a low order class, and optionally (for priority uses) also to one or more high order classes.

Preamble: None

Script:

```
ISS_INIT (1);

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_G_9 );
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_G_9 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_G_9 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_G_9 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

COMMAND ("SIM CONFIG MODE=66"); /* Special SIM */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

SET_TIMEOUT (40000);

ISS_DELAY (20000);

/*
 * abort registration due to MM problem
 */
AT_SEND ("ABORT", SILENT);
AT_RECEIVE ("OK", SILENT);

/*
 * Try normal call, shall not be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
AT_RECEIVE ("NO CARRIER", SILENT);

ISS_DELAY (30000);

/*
 * Try emergency call, shall not be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
AT_RECEIVE ("NO CARRIER", SILENT);

ISS_DELAY (30000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");

ISS_DELAY (10000);

/* PART 2 */

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_G_10 );
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_G_10 );
```

```
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_G_10 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_G_10 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

COMMAND ("SIM CONFIG MODE=66"); /* Special SIM */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

SET_TIMEOUT (40000);

ISS_DELAY (20000);

/*
 * abort registration due to MM problem
 */
AT_SEND ("ABORT", SILENT);
AT_RECEIVE ("OK", SILENT);

/*
 * Try normal call, shall not be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
AT_RECEIVE ("NO CARRIER", SILENT);

ISS_DELAY (30000);

/*
 * Try emergency call, shall be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_ec,SILENT);

ISS_DELAY (20000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");

ISS_DELAY (10000);
```

History: 17.03.98 LE Initial

4.7.19 MIT325: Access Control Management (27.10 h, Part 1)

Description: Access Control allows restriction of call access attempts. All mobile stations are assigned to a low order class, and optionally (for priority uses) also to one or more high order classes.

Preamble: None

Script:

```
ISS_INIT (1);

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_H_1 );
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_H_1 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_H_1 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_H_1 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

COMMAND ("SIM CONFIG MODE=67"); /* Special SIM */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

SET_TIMEOUT (40000);

BS_RACH_AWAIT(0,channel_request_lup_000,SILENT);
BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);

BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, 1, SAPI_0);
BS_MSG3_AWAIT(0,location_updating_request_27_10_E,SILENT);

BS_MSG3_SEND (0,location_updating_accept_27_10_F1,SILENT);
BS_MSG3_SEND (0,channel_release,SILENT);

ISS_DELAY (20000);

/*
 * Try normal call, shall be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_moc,SILENT);

ISS_DELAY (20000);

/*
 * Try emergency call, shall be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_ec,SILENT);

ISS_DELAY (20000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");
```


ISS_DELAY (10000) ;

History: 17.03.98 LE Initial

4.7.20 MIT326: Access Control Management (27.10 h, Part 2)

Description: Access Control allows restriction of call access attempts. All mobile stations are assigned to a low order class, and optionally (for priority uses) also to one or more high order classes.

Preamble: None

Script:

```
ISS_INIT (1);

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_H_2 );
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_H_2 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_H_2 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_H_2 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

COMMAND ("SIM CONFIG MODE=68"); /* Special SIM */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

SET_TIMEOUT (40000);

BS_RACH_AWAIT(0,channel_request_lup_000,SILENT);
BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);

BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, 1, SAPI_0);
BS_MSG3_AWAIT(0,location_updating_request_27_10_E,SILENT);

BS_MSG3_SEND (0,location_updating_accept_27_10_F,SILENT);
BS_MSG3_SEND (0,channel_release,SILENT);

ISS_DELAY (20000);

/*
 * Try normal call, shall be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_moc,SILENT);

ISS_DELAY (20000);

/*
 * Try emergency call, shall be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_ec,SILENT);

ISS_DELAY (20000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");
```

ISS_DELAY (10000) ;

History: 17.03.98 LE Initial

4.7.21 MIT327: Access Control Management (27.10 h, Part 3)

Description: Access Control allows restriction of call access attempts. All mobile stations are assigned to a low order class, and optionally (for priority uses) also to one or more high order classes.

Preamble: None

Script:

```
ISS_INIT (1);

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_H_3 );
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_H_3 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_H_3 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_H_3 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

COMMAND ("SIM CONFIG MODE=69"); /* Special SIM */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

SET_TIMEOUT (40000);

BS_RACH_AWAIT(0,channel_request_lup_000,SILENT);
BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);

BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, 1, SAPI_0);
BS_MSG3_AWAIT(0,location_updating_request_27_10_E,SILENT);

BS_MSG3_SEND (0,location_updating_accept_27_10_F,SILENT);
BS_MSG3_SEND (0,channel_release,SILENT);

ISS_DELAY (20000);

/*
 * Try normal call, shall be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_moc,SILENT);

ISS_DELAY (20000);

/*
 * Try emergency call, shall be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_ec,SILENT);

ISS_DELAY (20000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");
```

History: 17.03.98 LE Initial

4.7.22 MIT328: Access Control Management (27.10 h, Part 4)

Description: Access Control allows restriction of call access attempts. All mobile stations are assigned to a low order class, and optionally (for priority uses) also to one or more high order classes.

Preamble: None

Script:

```
ISS_INIT (1);

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_H_4 );
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_H_4 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_H_4 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_H_4 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

COMMAND ("SIM CONFIG MODE=70"); /* Special SIM */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

SET_TIMEOUT (40000);

BS_RACH_AWAIT(0,channel_request_lup_000,SILENT);
BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);

BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, 1, SAPI_0);
BS_MSG3_AWAIT(0,location_updating_request_27_10_E,SILENT);

BS_MSG3_SEND (0,location_updating_accept_27_10_F,SILENT);
BS_MSG3_SEND (0,channel_release,SILENT);

ISS_DELAY (10000);

/*
 * Try normal call, shall be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_moc,SILENT);

ISS_DELAY (10000);

/*
 * Try emergency call, shall be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_ec,SILENT);

ISS_DELAY (10000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");
```

History: 17.03.98 LE Initial

4.7.23 MIT329: Access Control Management (27.10 h, Part 5)

Description: Access Control allows restriction of call access attempts. All mobile stations are assigned to a low order class, and optionally (for priority uses) also to one or more high order classes.

Preamble: None

Script:

```
ISS_INIT (1);

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_H_5 );
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_H_5 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_H_5 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_H_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

COMMAND ("SIM CONFIG MODE=71"); /* Special SIM */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

SET_TIMEOUT (40000);

BS_RACH_AWAIT(0,channel_request_lup_000,SILENT);
BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);

BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, 1, SAPI_0);
BS_MSG3_AWAIT(0,location_updating_request_27_10_E,SILENT);

BS_MSG3_SEND (0,location_updating_accept_27_10_F1,SILENT);
BS_MSG3_SEND (0,channel_release,SILENT);

ISS_DELAY (10000);

/*
 * Try normal call, shall be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_moc,SILENT);

ISS_DELAY (10000);

/*
 * Try emergency call, shall be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_ec,SILENT);

ISS_DELAY (10000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");
```


History: 17.03.98 LE Initial

4.7.24 MIT330: Access Control Management (27.10 h, Part 6)

Description: Access Control allows restriction of call access attempts. All mobile stations are assigned to a low order class, and optionally (for priority uses) also to one or more high order classes.

Preamble: None

Script:

```
ISS_INIT (1);

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_H_6 );
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_H_6 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_H_6 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_H_6 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

COMMAND ("SIM CONFIG MODE=72"); /* Special SIM */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

SET_TIMEOUT (40000);

BS_RACH_AWAIT(0,channel_request_lup_000,SILENT);
BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);

BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, 1, SAPI_0);
BS_MSG3_AWAIT(0,location_updating_request_27_10_E,SILENT);

BS_MSG3_SEND (0,location_updating_accept_27_10_F1,SILENT);
BS_MSG3_SEND (0,channel_release,SILENT);

ISS_DELAY (10000);

/*
 * Try normal call, shall be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_moc,SILENT);

ISS_DELAY (10000);

/*
 * Try emergency call, shall be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_ec,SILENT);

ISS_DELAY (10000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");
```

History: 17.03.98 LE Initial

4.7.25 MIT331: Access Control Management (27.10 h, Part 7)

Description: Access Control allows restriction of call access attempts. All mobile stations are assigned to a low order class, and optionally (for priority uses) also to one or more high order classes.

Preamble: None

Script:

```
ISS_INIT (1);

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_H_7 );
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_H_7 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_H_7 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_H_7 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

COMMAND ("SIM CONFIG MODE=73"); /* Special SIM */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

SET_TIMEOUT (40000);

BS_RACH_AWAIT(0,channel_request_lup_000,SILENT);
BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);

BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, 1, SAPI_0);
BS_MSG3_AWAIT(0,location_updating_request_27_10_E,SILENT);

BS_MSG3_SEND (0,location_updating_accept_27_10_F,SILENT);
BS_MSG3_SEND (0,channel_release,SILENT);

ISS_DELAY (10000);

/*
 * Try normal call, shall be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_moc,SILENT);

ISS_DELAY (10000);

/*
 * Try emergency call, shall be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_ec,SILENT);

ISS_DELAY (10000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");
```

History: 17.03.98 LE Initial

4.7.26 MIT332: Access Control Management (27.10 h, Part 8)

Description: Access Control allows restriction of call access attempts. All mobile stations are assigned to a low order class, and optionally (for priority uses) also to one or more high order classes.

Preamble: None

Script:

```
ISS_INIT (1);

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_H_8 );
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_H_8 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_H_8 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_H_8 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

COMMAND ("SIM CONFIG MODE=74"); /* Special SIM */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

SET_TIMEOUT (40000);

BS_RACH_AWAIT(0,channel_request_lup_000,SILENT);
BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);

BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, 1, SAPI_0);
BS_MSG3_AWAIT(0,location_updating_request_27_10_E,SILENT);

BS_MSG3_SEND (0,location_updating_accept_27_10_F,SILENT);
BS_MSG3_SEND (0,channel_release,SILENT);

ISS_DELAY (10000);

/*
 * Try normal call, shall be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_moc,SILENT);

ISS_DELAY (10000);

/*
 * Try emergency call, shall be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_ec,SILENT);

ISS_DELAY (10000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");
```

History: 17.03.98 LE Initial

4.7.27 MIT333: Access Control Management (27.10 h, Part 9)

Description: Access Control allows restriction of call access attempts. All mobile stations are assigned to a low order class, and optionally (for priority uses) also to one or more high order classes.

Preamble: None

Script:

```
ISS_INIT (1);

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_H_9 );
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_H_9 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_H_9 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_H_9 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

COMMAND ("SIM CONFIG MODE=75"); /* Special SIM */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

SET_TIMEOUT (40000);

BS_RACH_AWAIT(0,channel_request_lup_000,SILENT);
BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);

BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, 1, SAPI_0);
BS_MSG3_AWAIT(0,location_updating_request_27_10_E,SILENT);

BS_MSG3_SEND (0,location_updating_accept_27_10_F,SILENT);
BS_MSG3_SEND (0,channel_release,SILENT);

ISS_DELAY (10000);

/*
 * Try normal call, shall be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_moc,SILENT);

ISS_DELAY (10000);

/*
 * Try emergency call, shall be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_ec,SILENT);

ISS_DELAY (10000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");
```


History: 17.03.98 LE Initial

4.7.28 MIT334: Access Control Management (27.10 h, Part 10)

Description: Access Control allows restriction of call access attempts. All mobile stations are assigned to a low order class, and optionally (for priority uses) also to one or more high order classes.

Preamble: None

Script:

```
ISS_INIT (1);

BS_SET_SYS_INFO ( 0 , system_information_type_1_27_10_H_10 );
BS_SET_SYS_INFO ( 0 , system_information_type_2_27_10_H_10 );
BS_SET_SYS_INFO ( 0 , system_information_type_3_27_10_H_10 );
BS_SET_SYS_INFO ( 0 , system_information_type_4_27_10_H_10 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_5 );
BS_SET_SYS_INFO_SACCH ( 0 , system_information_type_6 );

BS_SET_SCH ( 0 , BSIC , RFN );
BS_SET_ARFCN ( 0 , ARFCN_BCCH );
BS_SET_POWER ( 0 , -50 );
BS_ON_OFF ( 0 , TRUE );

COMMAND ("SIM CONFIG MODE=76"); /* Special SIM */
AT_SEND ("AT+CFUN=1\r\n", "switch on");
AT_SEND ("AT+COPS=0\r\n", "automatic registration");

SET_TIMEOUT (40000);

BS_RACH_AWAIT(0,channel_request_lup_000,SILENT);
BS_CONFIG_CHANNEL (0, AGCH, UNACK, SAPI_0);

BS_STORE_RACH_PARAMS (0, 0);
BS_MSG3_SEND (0,immediate_assignment,SILENT);

BS_CONFIG_CHANNEL (0, SDCCH, 1, SAPI_0);
BS_MSG3_AWAIT(0,location_updating_request_27_10_E,SILENT);

BS_MSG3_SEND (0,location_updating_accept_27_10_F1,SILENT);
BS_MSG3_SEND (0,channel_release,SILENT);

ISS_DELAY (10000);

/*
 * Try normal call, shall be possible
 */
AT_SEND ("ATD1234;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_moc,SILENT);

ISS_DELAY (10000);

/*
 * Try emergency call, shall be possible
 */
AT_SEND ("ATD112;\r\n", SILENT);
BS_RACH_AWAIT(0,channel_request_ec,SILENT);

ISS_DELAY (10000);

AT_SEND ("AT+CFUN=0\r\n", "switch off");
```

History: 17.03.98 LE Initial

Appendices

A. Acronyms

DS-WCDMA	Direct Sequence/Spread Wideband Code Division Multiple Access
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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/ >
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