



Technical Document

GSM PROTOCOL STACK

TEST SPECIFICATION

BMISMS (SMS MANAGEMENT)

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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 tests for the whole protocol stack using the MMI Framework.

3 Parameters

```
#define PHASE_2_PIN_ENTERING 2
```

```
DECLARATION (PLMN_262_01)  
DECLARATION (PLMN_262_02)  
DECLARATION (PLMN_765_43)  
DECLARATION (MCC_262)  
DECLARATION (MCC_765)  
DECLARATION (MNC_01)  
DECLARATION (MNC_02)  
DECLARATION (MNC_43)  
DECLARATION(SM7_ABCDEFGHI)  
DECLARATION(SM7_0123456789_RPT)  
DECLARATION(SM7_43556)  
DECLARATION(SM7_120)  
DECLARATION(SM7_120_x_1)  
DECLARATION(ORIG_987654)  
DECLARATION(SC_123456)  
DECLARATION(ORIG_98765)  
DECLARATION(SC_12345)  
DECLARATION(VP_A)  
DECLARATION(DEA_030390940)  
DECLARATION(DEA_049093030)
```

```
BYTE RECORD_1 1  
BYTE RECORD_2 2  
BYTE RECORD_3 3  
BYTE RECORD_4 4  
BYTE RECORD_5 5  
BYTE RECORD_6 6  
BYTE RECORD_7 7  
BYTE RECORD_8 8  
BYTE RECORD_9 9  
BYTE RECORD_10 10  
BYTE RECORD_11 11  
BYTE RECORD_12 12  
BYTE RECORD_13 13  
BYTE RECORD_14 14  
BYTE RECORD_15 15  
BYTE LENGTH_ADN 52
```

```
BYTE TI_MO_0 0x00  
BYTE NUM_0 0  
BYTE NUM_1 1  
BYTE NUM_2 2  
BYTE NUM_3 3  
BYTE NUM_6 6  
BYTE NUM_9 9  
BYTE NUM_10 10  
BYTE V_PLMN_PRES 1  
BYTE TIMEZONE 0x40
```

```
/* --- Constants --- */
```

```
BYTE DUMMY 0  
BYTE MAX_SIM_DEF 10  
BYTE USED_SIM_DEF 0
```

```

BYTE  USED_SIM_2  2
BYTE  MAX_ME_DEF 10
BYTE  USED_ME_DEF    0
BYTE  USED_SIM_3  3
BYTE  USED_SIM_4  4
/* sim record */
SHORT  SIM_RECORD_0    0
SHORT  SIM_RECORD_1    1
SHORT  SIM_RECORD_2    2
SHORT  SIM_RECORD_3    3
SHORT  SIM_RECORD_4    4
SHORT  SIM_RECORD_5    5
SHORT  SIM_RECORD_6    6
SHORT  SIM_RECORD_4C   0x4C

/* message reference */
SHORT  MSG_REF_1        1
SHORT  MSG_REF_2        2
SHORT  MSG_REF_3        3

/* sim status */
BYTE   SIM_MT_STATUS    3
BYTE   SIM_MT_STATUS_READ  1
BYTE   SIM_MO_STATUS    7
BYTE   SIM_MO_STATUS_READ  5

/* message types */
BYTE   MSG_MO_1          0x01
BYTE   MSG_MT_1          0x04
BYTE   MSG_TYPE_02      0x02
BYTE   MSG_TYPE_04      0x04
BYTE   MSG_TYPE_06      0x06
BYTE   MSG_TYPE_11      0x11
BYTE   MSG_TYPE_SUBMIT_DEF          0x1D
BYTE   MSG_TYPE_SUBMIT_REPLY       0x9D
BYTE   MSG_TYPE_44          0x44

/* protocol identifiers */
BYTE  PID_SM_TYPE_0 0x40
BYTE  PID_SM_TYPE_VOICE 0x5F

/* data coding schemes */
BYTE  DCS_DEF 0x00
BYTE  DCS_CLASS0 0x10
BYTE  DCS_CLASS2 0x12
BYTE  DCS_8_BIT 0xF4
BYTE  DCS_VOICE 0xC8

/* command data length */
BYTE  L_CMD_DATA_EMPTY 0x00

/* SMSP data length */
BYTE  L_SMSP_MIN 28
BYTE  L_SMSP_ALPHA_ID 35

FIELD (IMSI)
                                0x29, 0x26, 0x10,
                                0x74, 0x11, 0x94,
```

```
                                0x21, 0xFF
ENDFIELD (IMSI, 8)

FIELD (EC_CODES)  0x11, 0xF2, 0xFF,
                  0x99, 0xF9, 0xFF,
                  0xFF,0xFF,0xFF,0xFF,0xFF,
                  0xFF,0xFF,0xFF,0xFF
ENDFIELD (EC_CODES, 16)

/* SIM service table */
FIELD (F_SIM_SRV) 0x0C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
ENDFIELD (F_SIM_SRV, 10)

/* SIM Service Table with Nr. 4, SMSP */
FIELD (F_SIM_SRV_2_12) 0x00, 0x00, 0xC0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
ENDFIELD (F_SIM_SRV_2_12, 10)

/* SIM Service Table with Nr. 4, CBMIR */
FIELD (F_SIM_SRV_4_30) 0xC0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x0C, 0x00, 0x00
ENDFIELD (F_SIM_SRV_4_30, 10)

/* SIM Service Table with Nr. 4, CBMI */
FIELD (F_SIM_SRV_4_14) 0xC0, 0x00, 0x00, 0x0C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
ENDFIELD (F_SIM_SRV_4_14, 10)

/* SIM Service Table with Nr. 4, SMSP, CBMIR */
FIELD (F_SIM_SRV_4_12_30) 0xC0, 0x00, 0xC0, 0x00, 0x00, 0x00, 0x00, 0x0C, 0x00, 0x00
ENDFIELD (F_SIM_SRV_4_12_30, 10)

/* SIM Service Table with Nr. 4, SMSP, CBMI */
FIELD (F_SIM_SRV_4_12_14) 0xC0, 0x00, 0xC0, 0x0C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
ENDFIELD (F_SIM_SRV_4_12_14, 10)

/* SIM Service Table with Nr. 4, CBMIR, CBMI */
FIELD (F_SIM_SRV_4_14_30) 0xC0, 0x00, 0x00, 0x0C, 0x00, 0x00, 0x00, 0x0C, 0x00, 0x00
ENDFIELD (F_SIM_SRV_4_14_30, 10)

/* SIM Service Table with Nr. 4, SMSP, CBMIR, CBMI */
FIELD (F_SIM_SRV_4_12_14_30) 0xC0, 0x00, 0xC0, 0x0C, 0x00, 0x00, 0x00, 0x0C, 0x00, 0x00
ENDFIELD (F_SIM_SRV_4_12_14_30, 10)

/* SIM EF(SMSP) Responses */
/* SMS parameters with minimum length, empty */
FIELD (SMSP_EMPTY)
0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF,
0xFF,
0xFF
ENDFIELD (SMSP_EMPTY, L_SMSP_MIN)

/* SIM EF(SMSP) Requests */
FIELD (SMSP_CORRECT_U) 256,
0xF1,
0xFF, 0xFF,
0x04, 0x81, 0x21, 0x43, 0xF5, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0x47,
0x00,
```

0xFF
ENDFIELD (SMSP_CORRECT_U, L_SMSP_MIN+1)

FIELD (SMSP_CORRECT_ALPHA_ID_U) 256,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xF1,
0xFF,
0x04, 0x81, 0x21, 0x43, 0xF5, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0x47,
0x00,
0xFF
ENDFIELD (SMSP_CORRECT_ALPHA_ID_U, L_SMSP_ALPHA_ID+1)

FIELD (ADN_RECORD_1) //JIE
0x4A, 0x49, 0x45, 0x45, 0x45, 0x45, 0x45, 0x45,
0x4A, 0x49, 0x45, 0x45, 0x45, 0x45, 0x45, 0x45, 0x4A, 0x49, 0x45, 0x45, 0x45, 0x45,
0x45, 0x45, 0x4A, 0x49, 0x45, 0x45, 0x45, 0x45, 0x45, 0x45, 0x45, 0x4A, 0x49, 0x45, 0x45, 0x45,
0xFF, 0x06, 0x81,
0x30, 0x30, 0x09, 0x49, 0x01, 0xF3, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF
ENDFIELD (ADN_RECORD_1, 52)

FIELD (ADN_RECORD_2) //ERWIN
0x45, 0x52, 0x57, 0x49, 0x4E, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0x06, 0x81,
0x10, 0x27, 0x83, 0x83, 0x99, 0xF9, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF
ENDFIELD (ADN_RECORD_2, 52) //ANDREAS

FIELD (ADN_RECORD_3)
0x41, 0x4E, 0x44, 0x52, 0x45, 0x41, 0x53, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0x04, 0x81,
0x10, 0x17, 0x11, 0x42, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF
ENDFIELD (ADN_RECORD_3, 52)

FIELD (ADN_RECORD_4) //BERND
0x42, 0x45, 0x52, 0x4E, 0x44, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0x05, 0x81,
0x94, 0x93, 0x90, 0x14, 0x61, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF
ENDFIELD (ADN_RECORD_4, 52) //JVJ

FIELD (ADN_RECORD_5)
0x4A, 0x56, 0x4A, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0x05, 0x81,
0x93, 0x48, 0x68, 0x57, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF
ENDFIELD (ADN_RECORD_5, 52)

FIELD (ADN_RECORD_6) //STEFAN
0x53, 0x74, 0x65, 0x66, 0x61, 0x6E, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0x06, 0x81,
0xFF, 0xFF

```
0x30, 0x30, 0x09, 0x49, 0x11, 0xF7, 0xFF, 0xFF, 0xFF, 0xFF,  
0xFF, 0xFF  
ENDFIELD (ADN_RECORD_6, 52)
```

```
FIELD (LND_RECORD_1) //STEFAN  
0x53, 0x74, 0x65, 0x66, 0x61, 0x6E, 0xFF, 0xFF,  
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,  
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,  
0xFF, 0x06, 0x81,  
0x30, 0x30, 0x09, 0x49, 0x11, 0xF7, 0xFF, 0xFF, 0xFF, 0xFF,  
0xFF, 0xFF  
ENDFIELD (LND_RECORD_1, 52)
```

```
/* --- Primitive Parameters --- */
```

```
FIELD (SIM_STATUS_DEF) /*128*/ 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
ENDFIELD (SIM_STATUS_DEF, 10)
```

```
FIELD (ME_STATUS_DEF) /*128*/ 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
ENDFIELD (ME_STATUS_DEF, 10)
```

```
FIELD (SIM_STATUS_2REC_UNREAD) /*128*/ 0x33, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0  
ENDFIELD (SIM_STATUS_2REC_UNREAD, 10)  
FIELD (SIM_STATUS_3REC) /*128*/ 0x33, 0x03, 0, 0, 0, 0, 0, 0, 0, 0, 0  
ENDFIELD (SIM_STATUS_3REC, 10)  
FIELD (SIM_STATUS_4REC) /*128*/ 0x33, 0x33, 0, 0, 0, 0, 0, 0, 0, 0, 0  
ENDFIELD (SIM_STATUS_4REC, 10)
```

```
/* originator addresses */
```

```
FIELD (OA_98765)  
0x00, 0x01, 0x05, 0x09, 0x08, 0x07, 0x06, 0x05  
ENDFIELD (OA_98765, 8)
```

```
FIELD (OA_987654)  
0x00, 0x01, 0x06,  
0x09, 0x08,  
0x07, 0x06,  
0x05, 0x04  
ENDFIELD (OA_987654, 9)
```

```
FIELD (OR_987654)  
0x09, 0x08,  
0x07, 0x06,  
0x05, 0x04  
ENDFIELD (OR_987654, 6)  
FIELD (OR_98765)  
0x09, 0x08,  
0x07, 0x06,  
0x05  
ENDFIELD (OR_98765, 5)
```

```
FIELD(DA_654321)  
0x00,0x01,0x06,0x06,0x05,0x04,0x03,0x02,0x01  
ENDFIELD(DA_654321, 9)  
FIELD(DEST_030390940)  
0x00, 0x03,  
0x00,0x03,0x09,  
0x00,0x09,
```

0x04,0x00
ENDFIELD(DEST_030390940, 9)

FIELD(DEST_049093030)
0x00, 0x04,
0x09,0x00,0x09,
0x03,0x00,
0x03,0x00
ENDFIELD(DEST_049093030, 9)

FIELD(DA_3)
0x00,0x01,0x09,0x00,0x03,0x00, 0x03,0x09,0x00, 0x09,0x04,0x00
ENDFIELD(DA_3, 12)

FIELD(DA_030654321)
0x00,0x01,0x09,0x00,0x03,0x00,0x06,0x05,0x04,0x03,0x02,0x01
ENDFIELD(DA_030654321, 12)

/ service center addresses */*

FIELD (SA_123456)
0x01, 0x02, 0x03,
0x04, 0x05, 0x06
ENDFIELD (SA_123456, 6)

FIELD (SA_12345)
0x01, 0x02, 0x03,
0x04, 0x05
ENDFIELD (SA_12345, 5)

FIELD (SA_3)
0x00, 0x01, 0x00
ENDFIELD (SA_3, 3)

FIELD (SA_017211963852)
NTYPE_UNKNW /*NTYPE_NAT_NO*/,
NPLAN_ISDN_TEL,
0x0C, 0x00, 0x01, 0x07, 0x02, 0x01, 0x01, 0x09, 0x06, 0x03, 0x08, 0x05, 0x02
ENDFIELD (SA_017211963852, 15)

/ absolute validity periods */*

FIELD (YEAR)
0x09, 0x08
ENDFIELD (YEAR, 2)
FIELD (MONTH)
0x00, 0x01
ENDFIELD (MONTH, 2)
FIELD (DAY)
0x00, 0x07
ENDFIELD (DAY, 2)
FIELD (HOUR)
0x01, 0x02
ENDFIELD (HOUR, 2)
FIELD (MINUTE)
0x03, 0x04
ENDFIELD (MINUTE ,2)
FIELD (SECOND)
0x05, 0x06
ENDFIELD (SECOND, 2)


```
BEGIN_PSTRUCT ("sms_msg", SM7_43556)
  SET_COMP ("c_msg", L_SM7_43556)
  SET_COMP ("s_msg", D_SM7_43556)
ENDSTRUCT
BEGIN_PSTRUCT ("sms_msg", SM7_ABCDEFGHI)
  SET_COMP ("c_msg", L_SM7_ABCDEFGHI)
  SET_COMP ("s_msg", D_SM7_ABCDEFGHI)
ENDSTRUCT
BEGIN_PSTRUCT ("sms_msg", SM7_0123456789_RPT)
  SET_COMP ("c_msg", L_SM7_0123456789_RPT)
  SET_COMP ("s_msg", D_SM7_0123456789_RPT)
ENDSTRUCT
BEGIN_PSTRUCT ("orig_addr", ORIG_987654)
  SET_COMP ("ntype", NTYPE_UNKNW)
  SET_COMP ("nplan", NPLAN_ISDN_TEL)
  SET_COMP ("no_bcd", 0x06)
  SET_COMP ("bcd", OR_987654)
ENDSTRUCT
BEGIN_PSTRUCT ("sc_addr", SC_123456)
  SET_COMP ("ntype", NTYPE_UNKNW)
  SET_COMP ("nplan", NPLAN_ISDN_TEL)
  SET_COMP ("no_bcd", 0x06)
  SET_COMP ("bcd", SA_123456)
ENDSTRUCT
BEGIN_PSTRUCT ("orig_addr", ORIG_98765)
  SET_COMP ("ntype", NTYPE_UNKNW)
  SET_COMP ("nplan", NPLAN_ISDN_TEL)
  SET_COMP ("no_bcd", 0x05)
  SET_COMP ("bcd", OR_98765)
ENDSTRUCT
BEGIN_PSTRUCT ("sc_addr", SC_12345)
  SET_COMP ("ntype", NTYPE_UNKNW)
  SET_COMP ("nplan", NPLAN_ISDN_TEL)
  SET_COMP ("no_bcd", 0x05)
  SET_COMP ("bcd", SA_12345)
ENDSTRUCT

BEGIN_PSTRUCT ("dest_addr", DEA_030390940)
  SET_COMP ("ntype", NTYPE_UNKNW)
  SET_COMP ("nplan", NPLAN_ISDN_TEL)
  SET_COMP ("no_bcd", 0x09)
  SET_COMP ("bcd", DEST_030390940)
ENDSTRUCT
BEGIN_PSTRUCT ("dest_addr", DEA_049093030)
  SET_COMP ("ntype", NTYPE_UNKNW)
  SET_COMP ("nplan", NPLAN_ISDN_TEL)
  SET_COMP ("no_bcd", 0x09)
  SET_COMP ("bcd", DEST_049093030)
ENDSTRUCT

BEGIN_PSTRUCT ("sct",VP_A)
  SET_COMP ("year", YEAR)
  SET_COMP ("month", MONTH)
  SET_COMP ("day", DAY)
  SET_COMP ("hour", HOUR)
  SET_COMP ("minute", MINUTE)
  SET_COMP ("second", SECOND)
  SET_COMP ("timezone", TIME_ZONE)
ENDSTRUCT
```


4 TEST CASES

4.1 Routing (internal)

4.1.1 BMISMS001: Setup the Routing and the PCO view for the MMI test

Description:

Routings for the ACI tests are set.

Preamble:

None

APL	ACI	PS
COMMAND (TAP RESET)		
COMMAND (CC RESET)		
COMMAND (MM RESET)		
COMMAND (SIM RESET)		
COMMAND (SS RESET)		
COMMAND (MMI RESET)		
COMMAND (SMS RESET)		
COMMAND (RA RESET)		
COMMAND (T30 RESET)		
COMMAND (TAP REDIRECT CLEAR)		
COMMAND (CC REDIRECT CLEAR)		
COMMAND (MM REDIRECT CLEAR)		
COMMAND (SIM REDIRECT CLEAR)		
COMMAND (SS REDIRECT CLEAR)		
COMMAND (MMI REDIRECT CLEAR)		
COMMAND (SMS REDIRECT CLEAR)		
COMMAND (RA REDIRECT CLEAR)		
COMMAND (T30 REDIRECT CLEAR)		
COMMAND (MMI REDIRECT CC TAP)		
COMMAND (MMI REDIRECT MM TAP)		
COMMAND (MMI REDIRECT SIM TAP)		
COMMAND (MMI REDIRECT SS TAP)		
COMMAND (MMI REDIRECT MMI TAP)		
COMMAND (MMI REDIRECT SMS TAP)		
COMMAND (MMI REDIRECT RA TAP)		
COMMAND (MMI REDIRECT T30 TAP)		
COMMAND (TAP REDIRECT TAP MMI)		
COMMAND (MMI REDIRECT MMI TAP)		
COMMAND (CST REDIRECT L1 TAP)		

Parametrization:

Primitive	Parameter	Value
-----------	-----------	-------

History:	14.12.98	AKInitial
----------	----------	-----------

4.2 MMI Component Tests

4.2.1 BMISMS002: Power On Sequence

Description:

Preamble: BMISMS001

APL	ACI	PS
COMMAND (MMI CONFIG KEY_SEQUENCE=POWER)		
(1)	SIM_ACTIVATE_REQ	
	=====>	
(2)	SIM_ACTIVATE_CNF	
	<=====	
(3)	SIM_MMI_INSERT_IND	
	<=====	
(4)	SIM_READ_REQ	
	=====>	
(5)	SIM_READ_CNF	
	<=====	
(6)	SIM_READ_REQ	
	=====>	
(7)	SIM_READ_CNF	
	<=====	
(8)	MMR_PLMN_MODE_REQ	
	=====>	
(9)	MMR_REG_REQ	
	=====>	
(10)	MMR_REG_CNF	
	<=====	
(11)	MMR_PLMN_MODE_REQ	
	=====>	

Parametrization:

Primitive	Parameter	Value
(1) SIM_ACTIVATE_REQ		
proc	SIM_INITIALISATION	
mmi_pro_file	NOT_USED	
stk_pro_file	NOT_USED	
(2) SIM_ACTIVATE_CNF		
error	SIM_INIT_NO_ERROR	
pin_cnt	NUM_3	
puk_cnt	NUM_10	
pin2_cnt	NUM_3	
puk2_cnt	NUM_10	
ec_code	EC_CODES	
pref_lang	NOT_USED	
(3) SIM_MMI_INSERT_IND		
func	SIM_ADN_ENABLED	
sim_serv	F_SIM_SRV	
imsi_field	NOT_USED	
pref_plmn	NOT_USED	
phase	PHASE_2_SIM	
access_acm	NOT_USED	

(5)		SIM_READ_RECORD_CNF	
		<=====	
(6)		SIM_READ_RECORD_REQ	
		=====>	
(7)		SIM_READ_RECORD_CNF	
		<=====	
(8)		SIM_READ_RECORD_REQ	
		=====>	
(9)		SIM_READ_RECORD_CNF	
		<=====	
(10)		SIM_READ_RECORD_REQ	
		=====>	
(11)		SIM_READ_RECORD_CNF	
		<=====	
(12)		SIM_READ_RECORD_REQ	
		=====>	
(13)		SIM_READ_RECORD_CNF	
		<=====	

Parametrization:

Primitive	Parameter	Value
(1) MNSMS_REPORT_IND	cause	CS_SMS_READY
	msg_ref	NOT_PRESENT_8BIT
(2) SIM_READ_RECORD_REQ	source	SRC_MMI
	datafield	SIM_ADN
	record	RECORD_1
	length	NOT_USED
(3) SIM_READ_RECORD_CNF	datafield	SIM_ADN
	error	SIM_NO_ERROR
	record	RECORD_1
	max_record	RECORD_6
	length	LENGTH_ADN
	linear_data	ADN_RECORD_1
(4) SIM_READ_RECORD_REQ	source	SRC_MMI
	datafield	SIM_ADN
	record	RECORD_2
	length	NOT_USED
(5) SIM_READ_RECORD_CNF	datafield	SIM_ADN
	error	SIM_NO_ERROR
	record	RECORD_2
	max_record	RECORD_6
	length	LENGTH_ADN
	linear_data	ADN_RECORD_2
(6) SIM_READ_RECORD_REQ	source	SRC_MMI
	datafield	SIM_ADN
	record	RECORD_3
	length	NOT_USED

(7)	SIM_READ_RECORD_CNF	datafield error record max_record length linear_data	SIM_ADN SIM_NO_ERROR RECORD_3 RECORD_6 LENGTH_ADN ADN_RECORD_3
(8)	SIM_READ_RECORD_REQ	source datafield record length	SRC_MMI SIM_ADN RECORD_4 NOT_USED
(9)	SIM_READ_RECORD_CNF	datafield error record max_record length linear_data	SIM_ADN SIM_NO_ERROR RECORD_4 RECORD_6 LENGTH_ADN ADN_RECORD_4
(10)	SIM_READ_RECORD_REQ	source datafield record length	SRC_MMI SIM_ADN RECORD_5 NOT_USED
(11)	SIM_READ_RECORD_CNF	datafield error record max_record length linear_data	SIM_ADN SIM_NO_ERROR RECORD_5 RECORD_6 LENGTH_ADN ADN_RECORD_5
(12)	SIM_READ_RECORD_REQ	source datafield record length	SRC_MMI SIM_ADN RECORD_6 NOT_USED
(13)	SIM_READ_RECORD_CNF	datafield error record max_record length linear_data	SIM_ADN SIM_NO_ERROR RECORD_6 RECORD_6 LENGTH_ADN ADN_RECORD_6

History: 08-Nov-99 FK Initial

4.2.3 BMISMS004: Continue Power On Sequence: read SMS list and memory status

Description:

Preamble:

BMISMS003

APL	ACI	PS
(1)	MNSMS_INFO_REQ	
(2)	MNSMS_INFO_CNF	
(3)	MNSMS_READ_REQ	
(4)	MNSMS_MT_IND	
(5)	MNSMS_READ_REQ	
(6)	MNSMS_MT_IND	
(7)	MNSMS_INFO_REQ	
(8)	MNSMS_INFO_CNF	
(9)	MNSMS_CONFIGURE_REQ	

Parametrization:

Primitive	Parameter	Value
(1) MNSMS_INFO_REQ	param	DUMMY
(2) MNSMS_INFO_CNF	total_sim	MAX_SIM_DEF
	used_sim	USED_SIM_2
	status_sim	
	SIM_STATUS_2REC_UNREAD	
	total_me	MAX_ME_DEF
	used_me	USED_ME_DEF
(3) MNSMS_READ_REQ	status_me	ME_STATUS_DEF
	mem_type	MEM_SM
	read_mode	READ_PREVIEW
(4) MNSMS_MT_IND	rec_num	SIM_RECORD_1
	status	SIM_MT_STATUS
	orig_addr	ORIG_987654
(5) MNSMS_READ_REQ	sc_addr	SC_123456
	prot_id	PID_SM_TYPE_0
	dcs	DCS_DEF
	msg_type	MSG_TYPE_04
	sct	VP_A
	sms_msg	SM7_ABCDEFGHI
	msg_ref	MSG_REF_1
	mem_type	MEM_SM
(6) MNSMS_MT_IND	read_mode	READ_PREVIEW
	rec_num	SIM_RECORD_2
	status	SIM_MT_STATUS
(7) MNSMS_CONFIGURE_REQ	orig_addr	ORIG_98765

	sc_addr	SC_12345
	prot_id	PID_SM_TYPE_0
	dcs	DCS_DEF
	msg_type	MSG_TYPE_04
	sct	VP_A
	sms_msg	SM7_0123456789_RPT
	msg_ref	MSG_REF_2
(7) MNSMS_INFO_REQ		
	param	DUMMY
(8) MNSMS_INFO_CNF		
	total_sim	MAX_SIM_DEF
	used_sim	USED_SIM_2
	status_sim	SIM_STATUS_2REC_UNREAD
	total_me	MAX_ME_DEF
	used_me	USED_ME_DEF
	status_me	ME_STATUS_DEF
(9) MNSMS_CONFIGURE_REQ		
	pref_mem_3	NOT_USED
	mt	MT2
	ds	DS1
	mhc	SMS_MHC_PH2

History: 08-Nov-99 FK Initial

4.2.4 BMISMS005: Power On Sequence: (SIM Service Table with SMSP)

Description:

Preamble: BMISMS001

APL	ACI	PS
COMMAND (MMI CONFIG KEY_SEQUENCE=POWER)		
(1)	SIM_ACTIVATE_REQ	
	=====>	
(2)	SIM_ACTIVATE_CNF	
	<=====	
(3)	SIM_MMI_INSERT_IND	
	<=====	
(4)	SIM_READ_REQ	
	=====>	
(5)	SIM_READ_CNF	
	<=====	
(6)	SIM_READ_REQ	
	=====>	
(7)	SIM_READ_CNF	
	<=====	
(8)	MMR_PLMN_MODE_REQ	
	=====>	
(9)	MMR_REG_REQ	
	=====>	
(10)	MMR_REG_CNF	
	<=====	
(11)	MMR_PLMN_MODE_REQ	
	=====>	

Parametrization:

Primitive	Parameter	Value
-----------	-----------	-------

(1) SIM_ACTIVATE_REQ	proc mmi_pro_file stk_pro_file	SIM_INITIALISATION NOT_USED NOT_USED
(2) SIM_ACTIVATE_CNF	error pin_cnt puk_cnt pin2_cnt puk2_cnt ec_code pref_lang	SIM_INIT_NO_ERROR NUM_3 NUM_10 NUM_3 NUM_10 EC_CODES NOT_USED
(3) SIM_MMI_INSERT_IND	func sim_serv imsi_field pref_plmn phase access_acm access_acmmax access_puct	SIM_ADN_ENABLED F_SIM_SRV_2_12 NOT_USED NOT_USED PHASE_2_SIM NOT_USED NOT_USED NOT_USED
(4) SIM_READ_REQ	source offset datafield length max_length	SRC_MMI NOT_USED SIM_CPHS_CINF NOT_PRESENT_8BIT NOT_USED
(5) SIM_READ_CNF	datafield error length trans_data	SIM_CPHS_CINF SIM_NO_ERROR NOT_USED NOT_USED
(6) SIM_READ_REQ	source offset datafield length max_length	SRC_MMI NOT_USED SIM_ECC NOT_PRESENT_8BIT NOT_USED
(7) SIM_READ_CNF	datafield error length trans_data	SIM_ECC SIM_NO_ERROR NOT_USED NOT_USED
(8) MMR_PLMN_MODE_REQ	mode	MODE_AUTO
(9) MMR_REG_REQ	service_mode	SERVICE_MODE_FULL
(10) MMR_REG_CNF	plmn	PLMN_262_01
(11) MMR_PLMN_MODE_REQ	mode	MODE_AUTO

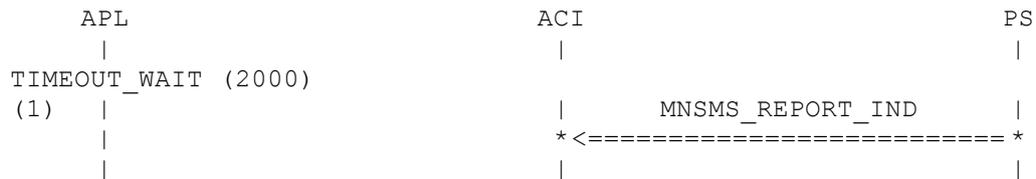
History: 10.08.98 ACI Initial

4.2.5 BMISMS006: Continue Power On Sequence: SMS read ready

Description:

Preamble:

BMISMS005



Parametrization:

Primitive	Parameter	Value
(1) MNSMS_REPORT_IND	cause msg_ref	CS_SMS_READY NOT_PRESENT_8BIT

History: 08-Nov-99 FK Initial

4.2.6 BMISMS007: Continue Power On Sequence: read SMS list and memory status

Description:

Preamble:

BMISMS006

APL	ACI	PS
(1)	SIM_READ_RECORD_REQ	
(2)	SIM_READ_RECORD_CNF	
(3)	MNSMS_INFO_REQ	
(4)	MNSMS_INFO_CNF	
(5)	MNSMS_READ_REQ	
(6)	MNSMS_MT_IND	
(7)	MNSMS_READ_REQ	
(8)	MNSMS_MT_IND	
(9)	MNSMS_INFO_REQ	
(10)	MNSMS_INFO_CNF	

Parametrization:

Primitive	Parameter	Value
(1) SIM_READ_RECORD_REQ	source	SRC_MMI
	datafield	SIM_SMSP
	record	NUM_1
	length	NOT_PRESENT_8BIT
(2) SIM_READ_RECORD_CNF	datafield	SIM_SMSP
	error	SIM_NO_ERROR
	record	NUM_1
	max_record	NUM_1
	length	L_SMSP_MIN
	linear_data	SMSP_EMPTY
(3) MNSMS_INFO_REQ	param	DUMMY
(4) MNSMS_INFO_CNF	total_sim	MAX_SIM_DEF
	used_sim	USED_SIM_2
	status_sim	
SIM_STATUS_2REC_UNREAD	total_me	MAX_ME_DEF
	used_me	USED_ME_DEF
	status_me	ME_STATUS_DEF
(5) MNSMS_READ_REQ	mem_type	MEM_SM
	read_mode	READ_PREVIEW
	rec_num	SIM_RECORD_1
(6) MNSMS_MT_IND	status	SIM_MT_STATUS
	orig_addr	ORIG_987654

	sc_addr	SC_12345
	prot_id	PID_SM_TYPE_0
	dcs	DCS_DEF
	msg_type	MSG_TYPE_04
	sct	VP_A
	sms_msg	SM7_ABCDEFGHI
	msg_ref	MSG_REF_1
(7) MNSMS_READ_REQ		
	mem_type	MEM_SM
	read_mode	READ_PREVIEW
	rec_num	SIM_RECORD_2
(8) MNSMS_MT_IND		
	status	SIM_MT_STATUS
	orig_addr	ORIG_98765
	sc_addr	SC_12345
	prot_id	PID_SM_TYPE_0
	dcs	DCS_DEF_ALPH
	msg_type	MSG_TYPE_04
	sct	VP_A
	sms_msg	SM7_0123456789_RPT
	msg_ref	MSG_REF_2
(9) MNSMS_INFO_REQ		
	param	DUMMY
(10)	MNSMS_INFO_CNF	
	total_sim	MAX_SIM_DEF
	used_sim	USED_SIM_2
	status_sim	
SIM_STATUS_2REC_UNREAD		
	total_me	MAX_ME_DEF
	used_me	USED_ME_DEF
	status_me	ME_STATUS_DEF

History: 08-Nov-99 FK Initial

4.2.7 BMISMS100: Save a SMS message to memory

Description:

set initial configuration for SMS

Preamble:

BMISMS004

```

        APL                                ACI                                PS
        |                                  |                                  |
    TIMEOUT_WAIT (2000)
    COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
    TIMEOUT_WAIT (1000)
    COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)
    TIMEOUT_WAIT (1000)
    COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
    TIMEOUT_WAIT (1000)
    COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)
    TIMEOUT_WAIT (1000)
    COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
    TIMEOUT_WAIT (1000)
    COMMAND (MMI CONFIG KEY_SEQUENCE=4)
    TIMEOUT_WAIT (2000)
    COMMAND (MMI CONFIG KEY_SEQUENCE=3)
    TIMEOUT_WAIT (2000)
    COMMAND (MMI CONFIG KEY_SEQUENCE=5)
    TIMEOUT_WAIT (2000)
    COMMAND (MMI CONFIG KEY_SEQUENCE=5)
    TIMEOUT_WAIT (2000)
    COMMAND (MMI CONFIG KEY_SEQUENCE=6)
    TIMEOUT_WAIT (2000)
    COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
    TIMEOUT_WAIT (1000)
    COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)
    TIMEOUT_WAIT (1000)
    COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
    (1) |                                | MNSMS_STORE_REQ |
        |                                | *=====> *
    (2) |                                | MNSMS_REPORT_IND |
        |                                | *<===== *
    TIMEOUT_WAIT (2000)
    COMMAND (MMI CONFIG KEY_SEQUENCE= UP)
    TIMEOUT_WAIT (5000)
        |                                |                                |
    
```

Parametrization:

Primitive	Parameter	Value
(1) MNSMS_STORE_REQ	mem_type	MEM_SM
	rec_num	SIM_RECORD_0
	dest_addr	NOT_USED
	sc_addr	NOT_USED
	prot_id	NOT_USED
	dcs	NOT_USED
	msg_type	NOT_USED
	vp_rel	NOT_USED
	vp_abs	NOT_USED
	sms_msg	SM7_43556
	status	SIM_MO_STATUS
msg_ref	NOT_USED	
(2) MNSMS_REPORT_IND	cause	CS_OK
	msg_ref	SIM_RECORD_3

History: 08-Nov-99 FK Initial

4.2.8 BMISMS101: Save a SMS message to memory and receive a MT SMS indication

Description:

SMS store indication from network while a store request from MMI is in progress

Preamble:

```

    BMISMS004
    APL          ACI          PS
    |           |           |
    TIMEOUT_WAIT (2000)
    COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
    TIMEOUT_WAIT (1000)
    COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)
    TIMEOUT_WAIT (1000)
    COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
    TIMEOUT_WAIT (1000)
    COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)
    TIMEOUT_WAIT (1000)
    COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
    TIMEOUT_WAIT (1000)
    COMMAND (MMI CONFIG KEY_SEQUENCE=4)
    TIMEOUT_WAIT (2000)
    COMMAND (MMI CONFIG KEY_SEQUENCE=3)
    TIMEOUT_WAIT (2000)
    COMMAND (MMI CONFIG KEY_SEQUENCE=5)
    TIMEOUT_WAIT (2000)
    COMMAND (MMI CONFIG KEY_SEQUENCE=5)
    TIMEOUT_WAIT (2000)
    COMMAND (MMI CONFIG KEY_SEQUENCE=6)
    TIMEOUT_WAIT (1000)
    COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
    TIMEOUT_WAIT (1000)
    COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)
    TIMEOUT_WAIT (1000)
    COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
    (1) | | MNSMS_STORE_REQ |
        | | *=====> *
    (2) | | MNSMS_ALERT_IND |
        | | *<===== *
    (3) | | MNSMS_REPORT_IND |
        | | *<===== *
    (4) | | MNSMS_INFO_REQ |
        | | *=====> *
    (5) | | MNSMS_INFO_CNF |
        | | *<===== *
    (6) | | MNSMS_READ_REQ |
        | | *=====> *
    (7) | | MNSMS_MT_IND |
        | | *<===== *
    (8) | | MNSMS_READ_REQ |
        | | *=====> *
    (9) | | MNSMS_MT_IND |
        | | *<===== *
    (10) | | MNSMS_READ_REQ |
        | | *=====> *
    (11) | | MNSMS_MT_IND |
    
```


	read_mode	READ_PREVIEW
	rec_num	SIM_RECORD_2
(9) MNSMS_MT_IND		
	status	SIM_MT_STATUS
	orig_addr	ORIG_98765
	sc_addr	SC_12345
	prot_id	PID_SM_TYPE_0
	dcs	DCS_DEF_ALPH
	msg_type	MSG_TYPE_04
	sct	VP_A
	sms_msg	SM7_0123456789_RPT
	msg_ref	MSG_REF_2
(10)	MNSMS_READ_REQ	
	mem_type	MEM_SM
	read_mode	READ_PREVIEW
	rec_num	SIM_RECORD_3
(11)	MNSMS_MT_IND	
	status	SIM_MT_STATUS
	orig_addr	ORIG_98765
	sc_addr	SC_12345
	prot_id	PID_SM_TYPE_0
	dcs	DCS_DEF_ALPH
	msg_type	MSG_TYPE_04
	sct	VP_A
	sms_msg	SM7_0123456789_RPT
	msg_ref	MSG_REF_3

History: 08-Nov-99 FK Initial

4.2.9 BMISMS102: Set service center address and save it in EEPROM

Description:

set initial configuration for SMS

Preamble:

BMISMS004

APL	ACI	PS
TIMEOUT_WAIT (2000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= STAR)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= STAR)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= 4)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= 9)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= 1)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= 7)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= 1)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= 0)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= 7)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= 6)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= 0)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= 0)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= 0)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= 0)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
TIMEOUT_WAIT (5000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= UP)		
TIMEOUT_WAIT (5000)		

Parametrization:

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
------------------	------------------	--------------

History: 08-Nov-99 FK Initial

4.2.10 BMISMS103: Set service center address and save it in SIM card

Description:
 set initial configuration for SMS

Preamble:
 BMISMS007

APL	ACI	PS
TIMEOUT_WAIT (2000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= STAR)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= STAR)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= 4)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= 9)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= 1)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= 7)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= 1)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= 0)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= 7)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= 6)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= 0)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= 0)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= 0)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE=0)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
(1)	SIM_UPDATE_RECORD_REQ	
	*=====> *	
(2)	SIM_UPDATE_RECORD_CNF	
	*<===== *	
TIMEOUT_WAIT (5000)		

Parametrization:

Primitive	Parameter	Value
(1) SIM_UPDATE_RECORD_REQ	source	SRC_MMI
	datafield	SIM_SMSP
	record	NUM_1
	length	L_SMSP_MIN
	linear_data	NOT_USED
(2) SIM_UPDATE_RECORD_CNF	datafield	SIM_SMSP
	record	NUM_1
	error	SIM_NO_ERROR

History: 08-Nov-99 FK Initial

4.2.11 BMISMS104: Read a SMS message in memory

Description:
 set initial configuration for SMS

Preamble:
 BMISMS004

```

        APL                               ACI                               PS
        |                                 |                                 |
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
TIMEOUT_WAIT (1000)
COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)
TIMEOUT_WAIT (1000)
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
TIMEOUT_WAIT (1000)
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
TIMEOUT_WAIT (1000)
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (1000)
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
TIMEOUT_WAIT (1000)
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (1000)
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
(1) |                                     | MNSMS_READ_REQ |
    |                                     | *=====> *
(2) |                                     | MNSMS_MT_IND  |
    |                                     | *<===== *
(3) |                                     | MNSMS_READ_REQ |
    |                                     | *=====> *
(4) |                                     | MNSMS_MT_IND  |
    |                                     | *<===== *
TIMEOUT_WAIT (5000)
    |                                     |
    
```

Parametrization:

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) MNSMS_READ_REQ	mem_type	MEM_SM
	read_mode	READ_PREVIEW
	rec_num	SIM_RECORD_1
(2) MNSMS_MT_IND	status	SIM_MT_STATUS_READ
	orig_addr	ORIG_987654
	sc_addr	SC_12345
	prot_id	PID_SM_TYPE_0
	dcs	DCS_DEF_ALPH
	msg_type	MSG_TYPE_04
	sct	VP_A
	sms_msg	SM7_ABCDEFGHI
	msg_ref	NOT_USED
(3) MNSMS_READ_REQ	mem_type	MEM_SM
	read_mode	READ_STATUS_CHANGE
	rec_num	SIM_RECORD_1
(4) MNSMS_MT_IND	status	SIM_MT_STATUS_READ
	orig_addr	ORIG_987654
	sc_addr	SC_12345
	prot_id	PID_SM_TYPE_0
	dcs	DCS_DEF_ALPH
	msg_type	MSG_TYPE_04
	sct	VP_A
	sms_msg	SM7_ABCDEFGHI
	msg_ref	NOT_USED

History: 08-Nov-99 FK Initial

4.2.12 BMISMS105: Read a SMS message in memory and receive a MT SMS indication

Description:

SMS store indication from network while a store request from MMI is in progress

Preamble:

```

        BMISMS004
        APL                               ACI                               PS
        |                                 |                                 |
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
TIMEOUT_WAIT (1000)
COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)
TIMEOUT_WAIT (1000)
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
TIMEOUT_WAIT (1000)
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
TIMEOUT_WAIT (1000)
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (1000)
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
TIMEOUT_WAIT (1000)
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (1000)
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
(1) | | | MNSMS_READ_REQ |
    | | | *=====> *
(2) | | | MNSMS_ALERT_IND |
    | | | *<===== *
(3) | | | MNSMS_MT_IND |
    | | | *<===== *
(4) | | | MNSMS_READ_REQ |
    | | | *=====> *
(5) | | | MNSMS_MT_IND |
    | | | *<===== *
(6) | | | MNSMS_READ_REQ |
    | | | *=====> *
(7) | | | MNSMS_MT_IND |
    | | | *<===== *
    | | | | |
    
```

Parametrization:

Primitive	Parameter	Value
(1) MNSMS_READ_REQ	mem_type	MEM_SM
	read_mode	READ_PREVIEW
	rec_num	SIM_RECORD_1
(2) MNSMS_ALERT_IND	mem_type	MEM_SM
	rec_num	SIM_RECORD_4
	status	SIM_MT_STATUS
(3) MNSMS_MT_IND	status	SIM_MT_STATUS_READ
	orig_addr	ORIG_987654

	sc_addr	SC_12345
	prot_id	PID_SM_TYPE_0
	dcs	DCS_DEF_ALPH
	msg_type	MSG_TYPE_04
	sct	VP_A
	sms_msg	SM7_ABCDEFGHI
	msg_ref	NOT_USED
(4) MNSMS_READ_REQ		
	mem_type	MEM_SM
	read_mode	READ_STATUS_CHANGE
	rec_num	SIM_RECORD_1
(5) MNSMS_MT_IND		
	status	SIM_MT_STATUS_READ
	orig_addr	ORIG_987654
	sc_addr	SC_12345
	prot_id	PID_SM_TYPE_0
	dcs	DCS_DEF_ALPH
	msg_type	MSG_TYPE_04
	sct	VP_A
	sms_msg	SM7_ABCDEFGHI
	msg_ref	NOT_USED
(6) MNSMS_READ_REQ		
	mem_type	MEM_SM
	read_mode	READ_PREVIEW
	rec_num	SIM_RECORD_4
(7) MNSMS_MT_IND		
	status	SIM_MT_STATUS
	orig_addr	ORIG_987654
	sc_addr	SC_12345
	prot_id	PID_SM_TYPE_0
	dcs	DCS_DEF_ALPH
	msg_type	MSG_TYPE_04
	sct	VP_A
	sms_msg	SM7_ABCDEFGHI
	msg_ref	NOT_USED

History: 08-Nov-99 FK Initial

4.2.13 BMISMS106: Send a SMS message

Description:

set initial configuration for SMS

Preamble:

BMISMS004

APL	ACI	PS
TIMEOUT_WAIT (2000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE=2)		
TIMEOUT_WAIT (2000)		
COMMAND (MMI CONFIG KEY_SEQUENCE=2)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE=0)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE=3)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE=0)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE=3)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE=9)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE=0)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE=9)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE=4)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE=0)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
(1)	MNSMS_SUBMIT_REQ	
	*=====> *	
(2)	MNSMS_REPORT_IND	
	*<===== *	

Parametrization:

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) MNSMS_SUBMIT_REQ	dest_addr	NOT_USED
	sc_addr	NOT_USED
	prot_id	NOT_USED
	dcs	NOT_USED
	msg_type	MSG_TYPE_11
	vp_rel	NOT_USED
	vp_abs	NOT_USED
	sms_msg	NOT_USED

	mem_type	NOT_USED
	rec_num	NOT_USED
(2) MNSMS_REPORT_IND		
	cause	CS_OK
	msg_ref	MSG_REF_1

History: 08-Nov-99 FK Initial

4.2.14 BMISMS107: Send a SMS message and receive a MT SMS indication

Description:

set initial configuration for SMS

Preamble:

BMISMS004

APL	ACI	PS
TIMEOUT_WAIT (2000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE=2)		
TIMEOUT_WAIT (2000)		
COMMAND (MMI CONFIG KEY_SEQUENCE=2)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE=0)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE=3)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE=0)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE=3)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE=9)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE=0)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE=9)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE=4)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE=0)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
(1)	MNSMS_SUBMIT_REQ	
	*=====> *	
(2)	MNSMS_ALERT_IND	
	*<===== *	
(3)	MNSMS_REPORT_IND	
	*<===== *	
(4)	MNSMS_READ_REQ	
	*=====> *	
(5)	MNSMS_MT_IND	
	*<===== *	
TIMEOUT_WAIT (5000)		

Parametrization:

Primitive	Parameter	Value
(1) MNSMS_SUBMIT_REQ	dest_addr	NOT_USED
	sc_addr	NOT_USED

	prot_id	NOT_USED
	dcs	NOT_USED
	msg_type	MSG_TYPE_11
	vp_rel	NOT_USED
	vp_abs	NOT_USED
	sms_msg	NOT_USED
	mem_type	NOT_USED
	rec_num	NOT_USED
(2) MNSMS_ALERT_IND		
	mem_type	MEM_SM
	rec_num	SIM_RECORD_4
	status	SIM_MT_STATUS
(3) MNSMS_REPORT_IND		
	cause	CS_OK
	msg_ref	MSG_REF_1
(4) MNSMS_READ_REQ		
	mem_type	MEM_SM
	read_mode	READ_PREVIEW
	rec_num	SIM_RECORD_4
(5) MNSMS_MT_IND		
	status	SIM_MT_STATUS
	orig_addr	ORIG_987654
	sc_addr	SC_12345
	prot_id	PID_SM_TYPE_0
	dcs	DCS_DEF_ALPH
	msg_type	MSG_TYPE_04
	sct	VP_A
	sms_msg	SM7_ABCDEFGHI
	msg_ref	MSG_REF_1

History: 08-Nov-99 FK Initial

4.2.15 BMISMS108: Delete a SMS message

Description:

Preamble:

BMISMS004

```

        APL                                ACI                                PS
        |                                  |                                  |
    TIMEOUT_WAIT (2000)
    COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
    TIMEOUT_WAIT (1000)
    COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)
    TIMEOUT_WAIT (1000)
    COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
    TIMEOUT_WAIT (1000)
    COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)
    TIMEOUT_WAIT (1000)
    COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)
    TIMEOUT_WAIT (1000)
    COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
    TIMEOUT_WAIT (1000)
    COMMAND (MMI CONFIG KEY_SEQUENCE=1)
    TIMEOUT_WAIT (1000)
    COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
    (1) |                                     | MNSMS_DELETE_REQ |
        |                                     | *=====> *
    (2) |                                     | MNSMS_REPORT_IND |
        |                                     | *<===== *
        |                                     |
    
```

Parametrization:

Primitive	Parameter	Value
(1) MNSMS_DELETE_REQ	mem_type	MEM_SM
	rec_num	SIM_RECORD_1
(2) MNSMS_REPORT_IND	cause	CS_OK
	msg_ref	MSG_REF_1

History: 08-Nov-99 FK Initial

4.2.16 BMISMS109: Read and Delete a SMS message

Description:

Preamble:

BMISMS004

```

        APL                                ACI                                PS
        |                                  |                                  |
    TIMEOUT_WAIT (2000)
    COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
    TIMEOUT_WAIT (1000)
    COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)
    TIMEOUT_WAIT (1000)
    COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
    TIMEOUT_WAIT (1000)
    COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
    TIMEOUT_WAIT (1000)
    COMMAND (MMI CONFIG KEY_SEQUENCE=1)
    TIMEOUT_WAIT (1000)
    COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
    TIMEOUT_WAIT (1000)
    COMMAND (MMI CONFIG KEY_SEQUENCE=1)
    TIMEOUT_WAIT (1000)
    COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
    (1) |                                | MNSMS_READ_REQ |
        |                                | *=====> *
    (2) |                                | MNSMS_MT_IND  |
        |                                | *<===== *
    (3) |                                | MNSMS_READ_REQ |
        |                                | *=====> *
    (4) |                                | MNSMS_MT_IND  |
        |                                | *<===== *
    TIMEOUT_WAIT (2000)
    COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)
    TIMEOUT_WAIT (4000)
    COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)
    TIMEOUT_WAIT (4000)
    COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)
    TIMEOUT_WAIT (4000)
    COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
    TIMEOUT_WAIT (4000)
    COMMAND (MMI CONFIG KEY_SEQUENCE=1)
    TIMEOUT_WAIT (1000)
        |                                  |                                  |
    
```

Parametrization:

Primitive	Parameter	Value
(1) MNSMS_READ_REQ	mem_type	MEM_SM
	read_mode	READ_PREVIEW
	rec_num	SIM_RECORD_1
(2) MNSMS_MT_IND	status	SIM_MT_STATUS_READ
	orig_addr	ORIG_987654
	sc_addr	SC_12345
	prot_id	PID_SM_TYPE_0
	dcs	DCS_DEF_ALPH
	msg_type	MSG_TYPE_04
	sct	VP_A
	sms_msg	SM7_ABCDEFGHI
msg_ref	NOT_USED	
(3) MNSMS_READ_REQ	mem_type	MEM_SM

	read_mode	READ_STATUS_CHANGE
	rec_num	SIM_RECORD_1
(4) MNSMS_MT_IND		
	status	SIM_MT_STATUS_READ
	orig_addr	ORIG_987654
	sc_addr	SC_12345
	prot_id	PID_SM_TYPE_0
	dcs	DCS_DEF_ALPH
	msg_type	MSG_TYPE_04
	sct	VP_A
	sms_msg	SM7_ABCDEFGHI
	msg_ref	NOT_USED

History: 08-Nov-99 FK Initial

4.2.17 BMISMS110: Delete a SMS message and receive a MT SMS indication

Description:

Preamble:

BMISMS004

APL	ACI	PS
TIMEOUT_WAIT (2000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE=1)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
(1)	MNSMS_DELETE_REQ	
	=====>	
(2)	MNSMS_ALERT_IND	
	<=====	
(3)	MNSMS_REPORT_IND	
	<=====	
(4)	MNSMS_READ_REQ	
	=====>	
(5)	MNSMS_MT_IND	
	<=====	
TIMEOUT_WAIT (5000)		

Parametrization:

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) MNSMS_DELETE_REQ	mem_type	MEM_SM
	rec_num	SIM_RECORD_1
(2) MNSMS_ALERT_IND	mem_type	MEM_SM
	rec_num	SIM_RECORD_4
	status	SIM_MT_STATUS
(3) MNSMS_REPORT_IND	cause	CS_OK
	msg_ref	MSG_REF_1
(4) MNSMS_READ_REQ	mem_type	MEM_SM
	read_mode	READ_PREVIEW
	rec_num	SIM_RECORD_4
(5) MNSMS_MT_IND	status	SIM_MT_STATUS
	orig_addr	ORIG_98765
	sc_addr	SC_12345
	prot_id	PID_SM_TYPE_0
	dcs	DCS_DEF_ALPH
	msg_type	MSG_TYPE_04
	sct	VP_A
	sms_msg	SM7_0123456789_RPT
	msg_ref	MSG_REF_3

History: 08-Nov-99 FK Initial

4.2.18 BMISMS111: Request the memory status

Description:

Preamble:

BMISMS004

```

        APL                                ACI                                PS
        |                                  |                                  |
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
TIMEOUT_WAIT (1000)
COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)
TIMEOUT_WAIT (1000)
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
TIMEOUT_WAIT (1000)
COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)
TIMEOUT_WAIT (1000)
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
TIMEOUT_WAIT (1000)
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
TIMEOUT_WAIT (1000)
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
(1) |                                     | MNSMS_INFO_REQ |
    |                                     | *=====> *
(2) |                                     | MNSMS_INFO_CNF |
    |                                     | *<===== *
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE= RIGHT)
TIMEOUT_WAIT (5000)
    |                                     |
    
```

Parametrization:

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) MNSMS_INFO_REQ	param	DUMMY
(2) MNSMS_INFO_CNF	total_sim used_sim status_sim	MAX_SIM_DEF USED_SIM_2
SIM_STATUS_2REC_UNREAD	total_me used_me status_me	MAX_ME_DEF USED_ME_DEF ME_STATUS_DEF

History: 08-Nov-99 FK Initial

4.2.19 BMISMS112: Request the memory status and receive a MT SMS indication

Description:

Preamble:

BMISMS004

APL	ACI	PS
TIMEOUT_WAIT (2000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
(1)	MNSMS_INFO_REQ	
	=====>	
(2)	MNSMS_ALERT_IND	
	<=====	
(3)	MNSMS_INFO_CNF	
	<=====	
(4)	MNSMS_READ_REQ	
	=====>	
(5)	MNSMS_MT_IND	
	<=====	
TIMEOUT_WAIT (5000)		

Parametrization:

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) MNSMS_INFO_REQ	param	DUMMY
(2) MNSMS_ALERT_IND	mem_type rec_num status	MEM_SM SIM_RECORD_4 SIM_MT_STATUS
(3) MNSMS_INFO_CNF	total_sim used_sim status_sim	MAX_SIM_DEF USED_SIM_2
SIM_STATUS_2REC_UNREAD	total_me used_me status_me	MAX_ME_DEF USED_ME_DEF ME_STATUS_DEF
(4) MNSMS_READ_REQ	mem_type read_mode rec_num	MEM_SM READ_PREVIEW SIM_RECORD_4
(5) MNSMS_MT_IND	status orig_addr sc_addr prot_id dcs msg_type sct sms_msg msg_ref	SIM_MT_STATUS ORIG_98765 SC_12345 PID_SM_TYPE_0 DCS_DEF_ALPH MSG_TYPE_04 VP_A SM7_0123456789_RPT MSG_REF_3

History: 08-Nov-99 FK Initial

4.2.20 BMISMS113: receive a MT SMS indication, read this SMS message

Description:

set initial configuration for SMS

Preamble:

BMISMS004

```

        APL                               ACI                               PS
        |                                 |                                 |
    TIMEOUT_WAIT (2000)
    (1) |                                 | MNSMS_ALERT_IND |
        |                                 | * <===== * |
    (2) |                                 | MNSMS_READ_REQ |
        |                                 | * =====> * |
    (3) |                                 | MNSMS_MT_IND   |
        |                                 | * <===== * |
    TIMEOUT_WAIT (5000)
    COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
    (4) |                                 | MNSMS_READ_REQ |
        |                                 | * =====> * |
    (5) |                                 | MNSMS_MT_IND   |
        |                                 | * <===== * |
    
```

Parametrization:

Primitive	Parameter	Value
(1) MNSMS_ALERT_IND	mem_type	MEM_SM
	rec_num	SIM_RECORD_4
	status	SIM_MT_STATUS
(2) MNSMS_READ_REQ	mem_type	MEM_SM
	read_mode	READ_PREVIEW
	rec_num	SIM_RECORD_4
(3) MNSMS_MT_IND	status	SIM_MT_STATUS
	orig_addr	ORIG_987654
	sc_addr	SC_12345
	prot_id	PID_SM_TYPE_0
	dcs	DCS_DEF_ALPH
	msg_type	MSG_TYPE_04
	sct	VP_A
	sms_msg	SM7_ABCDEFGHI
	msg_ref	MSG_REF_1
(4) MNSMS_READ_REQ	mem_type	MEM_SM
	read_mode	READ_PREVIEW
	rec_num	SIM_RECORD_4
(5) MNSMS_MT_IND	status	SIM_MT_STATUS
	orig_addr	ORIG_987654
	sc_addr	SC_12345
	prot_id	PID_SM_TYPE_0
	dcs	DCS_DEF_ALPH
	msg_type	MSG_TYPE_04
	sct	VP_A
	sms_msg	SM7_ABCDEFGHI
	msg_ref	MSG_REF_1

History: 08-Nov-99 FK Initial

4.2.21 BMISMS114: Write and Save a SMS message to memory and failed

Description:

set initial configuration for SMS

Preamble:

BMISMS004

```

        APL                                ACI                                PS
        |                                  |                                  |
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
TIMEOUT_WAIT (1000)
COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)
TIMEOUT_WAIT (1000)
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
TIMEOUT_WAIT (1000)
COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)
TIMEOUT_WAIT (1000)
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
TIMEOUT_WAIT (1000)
COMMAND (MMI CONFIG KEY_SEQUENCE=4)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=3)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=5)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=5)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=6)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
TIMEOUT_WAIT (1000)
COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)
TIMEOUT_WAIT (1000)
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
(1) |                                     | MNSMS_STORE_REQ |
    |                                     | *=====> *
(2) |                                     | MNSMS_REPORT_IND |
    |                                     | *<===== *
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE= UP)
TIMEOUT_WAIT (5000)
    |                                     |                                     |
    
```

Parametrization:

Primitive	Parameter	Value
(1) MNSMS_STORE_REQ	mem_type	MEM_SM
	rec_num	SIM_RECORD_0
	dest_addr	NOT_USED
	sc_addr	NOT_USED
	prot_id	NOT_USED
	dcs	NOT_USED

msg_type	NOT_USED
vp_rel	NOT_USED
vp_abs	NOT_USED
sms_msg	NOT_USED
status	SIM_MO_STATUS
msg_ref	NOT_USED

(2) MNSMS_REPORT_IND

cause	CS_SIM_FAILURE
msg_ref	SIM_RECORD_4

History: 08-Nov-99 FK Initial

4.2.22 BMISMS115: Send a SMS message and failed

Description:

set initial configuration for SMS

Preamble:

BMISMS004

APL	ACI	PS
TIMEOUT_WAIT (2000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE=2)		
TIMEOUT_WAIT (2000)		
COMMAND (MMI CONFIG KEY_SEQUENCE=2)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE=0)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE=3)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE=0)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE=3)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE=9)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE=0)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE=9)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE=4)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE=0)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
(1)	MNSMS_SUBMIT_REQ	
	*=====> *	
(2)	MNSMS_REPORT_IND	
	*<===== *	
TIMEOUT_WAIT (5000)		

Parametrization:

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) MNSMS_SUBMIT_REQ	dest_addr	NOT_USED
	sc_addr	NOT_USED
	prot_id	NOT_USED
	dcs	NOT_USED
	msg_type	MSG_TYPE_11
	vp_rel	NOT_USED
	vp_abs	NOT_USED

		sms_msg	NOT_USED
		mem_type	NOT_USED
		rec_num	NOT_USED
(2) MNSMS_REPORT_IND			
		cause	CS_SIM_FAILURE
		msg_ref	MSG_REF_1

History: 08-Nov-99 FK Initial

4.2.23 BMISMS116: Read a SMS message in memory and failed

Description:

set initial configuration for SMS

Preamble:

BMISMS004

```

        APL                      ACI                      PS
        |                        |                        |
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
TIMEOUT_WAIT (1000)
COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)
TIMEOUT_WAIT (1000)
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
TIMEOUT_WAIT (1000)
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
TIMEOUT_WAIT (1000)
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (1000)
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
TIMEOUT_WAIT (1000)
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (1000)
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
(1) | | MNSMS_READ_REQ |
    | | *=====> *
(2) | | MNSMS_REPORT_IND |
    | | *<===== *
TIMEOUT_WAIT (5000)
    | | |
    
```

Parametrization:

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) MNSMS_READ_REQ	mem_type	MEM_SM
	read_mode	READ_PREVIEW
	rec_num	SIM_RECORD_1
(2) MNSMS_REPORT_IND	cause	CS_SIM_FAILURE
	msg_ref	MSG_REF_1

History: 08-Nov-99 FK Initial

4.2.24 BMISMS117: Delete a SMS message and failed

Description:

Preamble:

BMISMS004

APL	ACI	PS
TIMEOUT_WAIT (2000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE=1)		
TIMEOUT_WAIT (1000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)		
(1)	MNSMS_DELETE_REQ	
	*===== > *	
(2)	MNSMS_REPORT_IND	
	* <===== *	

Parametrization:

Primitive	Parameter	Value
(1) MNSMS_DELETE_REQ	mem_type	MEM_SM
	rec_num	SIM_RECORD_1
(2) MNSMS_REPORT_IND	cause	CS_SIM_FAILURE
	msg_ref	MSG_REF_1

History: 08-Nov-99 FK Initial

4.2.25 BMISMS118: Save a SMS message (120 characters) to memory

Description:

set initial configuration for SMS

Preamble:

BMISMS004


```

TIMEOUT_WAIT (1000)
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (1000)
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE= DOWN)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE= LEFT)
(1) | | MNSMS_STORE_REQ |
    | | *=====> *
(2) | | MNSMS_REPORT_IND |
    | | *<===== *
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE= UP)
TIMEOUT_WAIT (5000)
    | | |
    
```

Parametrization:

Primitive	Parameter	Value
(1) MNSMS_STORE_REQ	mem_type	MEM_SM
	rec_num	SIM_RECORD_0
	dest_addr	NOT_USED
	sc_addr	NOT_USED
	prot_id	NOT_USED
	dcs	NOT_USED
	msg_type	NOT_USED
	vp_rel	NOT_USED
	vp_abs	NOT_USED
	sms_msg	SM7_120
	status	SIM_MO_STATUS
msg_ref	NOT_USED	
(2) MNSMS_REPORT_IND	cause	CS_OK
	msg_ref	SIM_RECORD_4

History: 08-Nov-99 FK Initial

4.2.26 BMISMS119: Voice mail indication in data coding scheme

Description:
 set initial configuration for SMS

Preamble:
 BMISMS004

```

        APL                ACI                PS
        |                  |                  |
(1)   |                  | MNSMS_ALERT_IND |
        |                  | * <===== * |
(2)   |                  | MNSMS_READ_REQ |
        |                  | * =====> * |
(3)   |                  | MNSMS_MT_IND   |
        |                  | * <===== * |
TIMEOUT_WAIT (5000)
        |                  |                  |
    
```

Parametrization:

Primitive	Parameter	Value
(1) MNSMS_ALERT_IND	mem_type	MEM_SM
	rec_num	SIM_RECORD_3
	status	SIM_MT_STATUS
(2) MNSMS_READ_REQ	mem_type	MEM_SM
	read_mode	READ_PREVIEW
	rec_num	SIM_RECORD_3
(3) MNSMS_MT_IND	status	SIM_MT_STATUS
	orig_addr	ORIG_98765
	sc_addr	SC_12345
	prot_id	PID_SM_TYPE_0
	dcs	DCS_VOICE
	msg_type	MSG_TYPE_04
	sct	VP_A
	sms_msg	SM7_0123456789_RPT
	msg_ref	MSG_REF_3

History: 08-Nov-99 FK Initial

4.2.27 BMISMS120: Voice mail indicartion in protocol identifier

Description:
 set initial configuration for SMS

Preamble:
 BMISMS004

```

        APL                               ACI                               PS
        |                                 |                                 |
(1)    |                                 | MNSMS_ALERT_IND                |
        |                                 | *<===== *                    |
(2)    |                                 | MNSMS_READ_REQ                |
        |                                 | *===== > *                    |
(3)    |                                 | MNSMS_MT_IND                  |
        |                                 | *<===== *                    |
TIMEOUT_WAIT (5000)
        |                                 |                                 |
    
```

Parametrization:

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) MNSMS_ALERT_IND	mem_type	MEM_SM
	rec_num	SIM_RECORD_3
	status	SIM_MT_STATUS
(2) MNSMS_READ_REQ	mem_type	MEM_SM
	read_mode	READ_PREVIEW
	rec_num	SIM_RECORD_3
(3) MNSMS_MT_IND	status	SIM_MT_STATUS
	orig_addr	ORIG_98765
	sc_addr	SC_12345
	prot_id	PID_SM_TYPE_VOICE
	dcs	DCS_DEF
	msg_type	MSG_TYPE_04
	sct	VP_A
	sms_msg	SM7_0123456789_RPT
	msg_ref	MSG_REF_3

History: 08-Nov-99 FK Initial

Appendices

A. Acronyms

DS-WCDMA Direct Sequence/Spread Wideband Code Division Multiple Access

B. Glossary

International Mobile Telecommunication 2000 (IMT-2000/ITU-2000) Formerly referred to as FPLMTS (Future Public Land-Mobile Telephone System), this is the ITU's specification/family of standards for 3G. This initiative provides a global infrastructure through both satellite and terrestrial systems, for fixed and mobile phone users. The family of standards is a framework comprising a mix/blend of systems providing global roaming. <URL: <http://www.imt-2000.org/>>