



Technical Document - Confidential

GSM PROTOCOL STACK

TEST SPECIFICATION

BMISAT

Document Number:	xxxx.yyy.00.100
Version:	0.2
Status:	Draft
Approval Authority:	
Creation Date:	2000-Oct-31
Last changed:	2015-Mar-08 by XGUTTEFE
File Name:	bmisat.doc

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Change History

Date	Changed by	Approved by	Version	Status	Notes
2000-Oct-31	VO		0.1		1
2003-May-12	XGUTTEFE		0.2	Draft	

Notes:

1. Initial version

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| [ISO 9000:2000] | International Organization for Standardization. Quality management systems - Fundamentals and vocabulary. December 2000 |
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1.1 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

1.2 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

```
DECLARATION (PLMN_262_01)
DECLARATION (MCC_262)
DECLARATION (MNC_01)
DECLARATION (EF_CPHS_CINF)
DECLARATION (SAT_FU_IND_EF_KC)
DECLARATION (SAT_FU_IND_EF_SPN)
DECLARATION (SAT_FU_IND_EF_GID1)
DECLARATION (SAT_FU_IND_EF_GID2)
DECLARATION (SAT_FU_IND_EF_SST)
DECLARATION (SAT_FU_IND_EF_SPN_SST_GID2)
DECLARATION (SAT_FU_IND_EF_SST_CINF_SMS)
DECLARATION (SAT_FU_IND_EF_FDN)
DECLARATION (SAT_FU_IND_EF_FDN_SPN_SST)
DECLARATION (SAT_FU_IND_EF_FDN_GID1)
BYTE DUMMY 0
BYTE NUM_0 0
BYTE NUM_1 1
BYTE NUM_2 2
BYTE NUM_3 3
BYTE NUM_4 4
BYTE NUM_5 5
BYTE NUM_10 10
BYTE NUM_17 17
BYTE NUM_255 255
BYTE MAX_SIM_SMS_10 10
BYTE USED_SIM_SMS_0 0
BYTE V_PLMN_PRE 1
/* sim record */
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 LENGTH_ADN 52
BYTE LENGTH_FDN 52

/* SIM IMSI */
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, 15)

/* SIM service table */
FIELD (F_SIM_SRV) 0x0C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
ENDFIELD (F_SIM_SRV, 10)
FIELD (F_SIM_SRV_FDN_ENABLED) 0x3C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
ENDFIELD (F_SIM_SRV_FDN_ENABLED, 10)
FIELD (F_SIM_SRV_UPDATE) 0x00, 0x00, 0x00, 0x00, 0x03, 0x00, 0x00, 0x00, 0x00, 0x00
ENDFIELD (F_SIM_SRV_UPDATE, 10)
FIELD (F_SIM_SRV_UPDATE_ADN_FDN) 0x3C, 0x00, 0x00, 0x00, 0x03, 0x00, 0x00, 0x00, 0x00, 0x00
ENDFIELD (F_SIM_SRV_UPDATE_ADN_FDN, 10)
```


/* ADN phonebook records */

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, 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, 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, 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, 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, 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, 0xFF, 0xFF, 0x06, 0x81,
0x30, 0x30, 0x09, 0x49, 0x11, 0xF7, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF

ENDFIELD (ADN_RECORD_6, 52)

/* ADN phonebook records */

FIELD (FDN_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, 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 (FDN_RECORD_1, 52)

FIELD (FDN_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, 0xFF, 0xFF, 0x06, 0x81,
0x10, 0x27, 0x83, 0x83, 0x99, 0xF9, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF

ENDFIELD (FDN_RECORD_2, 52)

FIELD (FDN_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, 0x04, 0x81,
0x10, 0x17, 0x11, 0x42, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF

ENDFIELD (FDN_RECORD_3, 52)

FIELD (FDN_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, 0x05, 0x81,
0x94, 0x93, 0x90, 0x14, 0x61, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF

ENDFIELD (FDN_RECORD_4, 52) //JVJ

FIELD (FDN_UPDATE_RECORD_1) //JIE

0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF

ENDFIELD (FDN_UPDATE_RECORD_1, 52)

FIELD (FDN_UPDATE_RECORD_2) //CONDAT

0x43, 0x4F, 0x4E, 0x44, 0x41, 0x54, 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 (FDN_UPDATE_RECORD_2, 52)

FIELD (FDN_UPDATE_RECORD_3)

0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF

ENDFIELD (FDN_UPDATE_RECORD_3, 52)

FIELD (FDN_UPDATE_RECORD_4)

0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF

ENDFIELD (FDN_UPDATE_RECORD_4, 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)

FIELD (CPHS_CINF)

0x00, 0x00, 0x00

ENDFIELD (CPHS_CINF, 3)

FIELD (CPHS_CINF_UPDATE)

0xFF, 0xFF, 0xFF

ENDFIELD (CPHS_CINF_UPDATE, 3)

```

FIELD (SPN_CONDAT)
    0x00,
    0x43, 0x4F, 0x4E, 0x44, 0x41, 0x54, 0xFF, 0xFF,
    0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF
ENDFIELD (SPN_CONDAT, 17)
FIELD (GID1_11111)
    0x01, 0x01, 0x01, 0x01, 0x01
ENDFIELD (GID1_11111, 5)
FIELD (GID2_22222)
    0x02, 0x02, 0x02, 0x02, 0x02
ENDFIELD (GID2_22222, 5)
FIELD (GID2_33333)
    0x03, 0x03, 0x03, 0x03, 0x03
ENDFIELD (GID2_33333, 5)

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

FIELD (SIM_STATUS_DEF) /*128,*/ 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
ENDFIELD (ME_STATUS_DEF, 10)
FIELD (SIM_STATUS_2REC_UNREAD) /*128,*/ 0x33, 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
ENDFIELD (SIM_STATUS_3REC, 10)
BYTE L_SM7_AA 0x02

BEGINARRAY (MCC_262, 3) 0x02, 0x06, 0x02 ENDARRAY
BEGINARRAY (MNC_01, 2) 0x00, 0x01 ENDARRAY

/* list of file identifier */
BEGINARRAY (SAT_FU_IND_EF_KC, 2) SIM_KC, (SIM_KC>>8) ENDARRAY
BEGINARRAY (SAT_FU_IND_EF_SPN, 2) SIM_SPN, (SIM_KC>>8) ENDARRAY

BEGINARRAY (SAT_FU_IND_EF_GID1, 2) SIM_GID1, (SIM_KC>>8) ENDARRAY
BEGINARRAY (SAT_FU_IND_EF_GID2, 2) SIM_GID2, (SIM_KC>>8) ENDARRAY
BEGINARRAY (SAT_FU_IND_EF_SST, 2) SIM_SST, (SIM_KC>>8) ENDARRAY
BEGINARRAY (SAT_FU_IND_EF_SPN_SST_GID2, 8) SIM_SPN, (SIM_KC>>8), SIM_KC, (SIM_KC>>8), SIM_SST,
    (SIM_KC>>8), SIM_GID2, (SIM_KC>>8) ENDARRAY
BEGINARRAY (SAT_FU_IND_EF_SST_CINF_SMS, 6) SIM_SST, (SIM_KC>>8), SIM_CPHS_CINF, (SIM_KC>>8),
    SIM_SMS, (SIM_KC>>8) ENDARRAY
BEGINARRAY (SAT_FU_IND_EF_FDN, 2) SIM_FDN, (SIM_KC>>8) ENDARRAY
BEGINARRAY (SAT_FU_IND_EF_FDN_SPN_SST, 6) SIM_FDN, (SIM_KC>>8), SIM_SPN, (SIM_KC>>8), SIM_SST,
    (SIM_KC>>8) ENDARRAY
BEGINARRAY (SAT_FU_IND_EF_FDN_GID1, 4) SIM_FDN, (SIM_KC>>8), SIM_GID1, (SIM_KC>>8) ENDARRAY

BEGIN_PSTRUCT ("plmn", PLMN_262_01)
    SET_COMP ("v_plmn", V_PLMN_PRE)
    SET_COMP ("mcc", MCC_262)
    SET_COMP ("mnc", MNC_01)
ENDSTRUCT

```

4 TEST CASES

4.1 Routing (internal)

4.1.1 BMISAT001: 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	AK Initial

4.2 MMI Initialisation

4.2.1 BMISAT002: Power On Sequence: phonebook read ready indication (only ADN)

Description:

Preamble: BMISAT001

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	
	*=====>	*
(12)	MNSMS_REPORT_IND	
	*<=====	*
(13)	SIM_READ_RECORD_REQ	
	*=====>	*
(14)	SIM_READ_RECORD_CNF	
	*<=====	*
(15)	SIM_READ_RECORD_REQ	
	*=====>	*
(16)	SIM_READ_RECORD_CNF	
	*<=====	*
(17)	SIM_READ_RECORD_REQ	
	*=====>	*
(18)	SIM_READ_RECORD_CNF	
	*<=====	*
(19)	SIM_READ_RECORD_REQ	
	*=====>	*
(20)	SIM_READ_RECORD_CNF	
	*<=====	*
(21)	SIM_READ_RECORD_REQ	
	*=====>	*
(22)	SIM_READ_RECORD_CNF	
	*<=====	*
(23)	SIM_READ_RECORD_REQ	
	*=====>	*
(24)	SIM_READ_RECORD_CNF	
	*<=====	*

Parametrization:

Primitive	Parameter	Value
(1) SIM_ACTIVATE_REQ	proc mmi_pro_file	SIM_INITIALISATION 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
	access_acmmax	NOT_USED
	access_puct	NOT_USED
(4) SIM_READ_REQ	source	SRC_MMI
	offset	NOT_USED
	datafield	SIM_CPHS_CINF
	length	NOT_PRESENT_8BIT
	max_length	NUM_3
(5) SIM_READ_CNF	datafield	SIM_CPHS_CINF
	error	SIM_NO_ERROR
	length	NUM_3
	trans_data	CPHS_CINF
(6) SIM_READ_REQ	source	SRC_MMI
	offset	NOT_USED
	datafield	SIM_ECC
	length	NOT_PRESENT_8BIT
	max_length	NOT_USED
(7) SIM_READ_CNF	datafield	SIM_ECC
	error	SIM_NO_ERROR
	length	NOT_USED
	trans_data	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
(12) MNSMS_REPORT_IND	cause	CS_SMS_READY
	msg_ref	NOT_PRESENT_8BIT
(13) SIM_READ_RECORD_REQ	source	SRC_MMI
	datafield	SIM_ADN
	record	RECORD_1
	length	NOT_USED
(14) 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
(15) SIM_READ_RECORD_REQ		
	source	SRC_MMI
	datafield	SIM_ADN
	record	RECORD_2
	length	LENGTH_ADN
(16) 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
(17) SIM_READ_RECORD_REQ		
	source	SRC_MMI
	datafield	SIM_ADN
	record	RECORD_3
	length	NOT_USED
(18) SIM_READ_RECORD_CNF		
	datafield	SIM_ADN
	error	SIM_NO_ERROR
	record	RECORD_3
	max_record	RECORD_6
	length	LENGTH_ADN
	linear_data	ADN_RECORD_3
(19) SIM_READ_RECORD_REQ		
	source	SRC_MMI
	datafield	SIM_ADN
	record	RECORD_4
	length	NOT_USED
(20) SIM_READ_RECORD_CNF		
	datafield	SIM_ADN
	error	SIM_NO_ERROR
	record	RECORD_4
	max_record	RECORD_6
	length	LENGTH_ADN
	linear_data	ADN_RECORD_4
(21) SIM_READ_RECORD_REQ		
	source	SRC_MMI
	datafield	SIM_ADN
	record	RECORD_5
	length	NOT_USED
(22) SIM_READ_RECORD_CNF		
	datafield	SIM_ADN
	error	SIM_NO_ERROR
	record	RECORD_5
	max_record	RECORD_6
	length	LENGTH_ADN
	linear_data	ADN_RECORD_5
(23) SIM_READ_RECORD_REQ		
	source	SRC_MMI
	datafield	SIM_ADN
	record	RECORD_6
	length	NOT_USED
(24) SIM_READ_RECORD_CNF		
	datafield	SIM_ADN

error	SIM_NO_ERROR
record	RECORD_6
max_record	RECORD_6
length	LENGTH_ADN
linear_data	ADN_RECORD_6

History: 31.10.00 MFW Initial

4.2.2 BMISAT003: Power On Sequence: phonebook read ready indication (FDN enable)

Description:

Preamble: BMISAT001

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	
	*=====>	*
(12)	MNSMS_REPORT_IND	
	*<=====	*
(13)	SIM_READ_RECORD_REQ	
	*=====>	*
(14)	SIM_READ_RECORD_CNF	
	*<=====	*
(15)	SIM_READ_RECORD_REQ	
	*=====>	*
(16)	SIM_READ_RECORD_CNF	
	*<=====	*
(17)	SIM_READ_RECORD_REQ	
	*=====>	*
(18)	SIM_READ_RECORD_CNF	
	*<=====	*
(19)	SIM_READ_RECORD_REQ	
	*=====>	*
(20)	SIM_READ_RECORD_CNF	
	*<=====	*

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_FDN_ENABLED
	sim_serv	F_SIM_SRV_FDN_ENABLED
	imsi_field	NOT_USED
	pref_plmn	NOT_USED
	phase	PHASE_2_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED
(4) SIM_READ_REQ		
source	SRC_MMI	
offset	NOT_USED	
datafield	SIM_CPHS_CINF	
length	NOT_PRESENT_8BIT	
max_length	NUM_3	
(1) SIM_READ_CNF		
datafield	SIM_CPHS_CINF	
error	SIM_NO_ERROR	
length	NUM_3	
trans_data	CPHS_CINF	
(5) SIM_READ_REQ		
source	SRC_MMI	
offset	NOT_USED	
datafield	SIM_ECC	
length	NOT_PRESENT_8BIT	
max_length	NOT_USED	
(6) SIM_READ_CNF		
datafield	SIM_ECC	
error	SIM_NO_ERROR	
length	NOT_USED	
trans_data	NOT_USED	
(7) MMR_PLMN_MODE_REQ		
mode	MODE_AUTO	
(2) MMR_REG_REQ		
service_mode	SERVICE_MODE_FULL	
(3) MMR_REG_CNF		
plmn	PLMN_262_01	
(8) MMR_PLMN_MODE_REQ		
mode	MODE_AUTO	
(9) MNSMS_REPORT_IND		
cause	CS_SMS_READY	
	msg_ref	NOT_PRESENT_8BIT
(10)	SIM_READ_RECORD_REQ	
source	SRC_MMI	
	datafield	SIM_FDN
	record	RECORD_1
	length	NOT_USED
(11)	SIM_READ_RECORD_CNF	
datafield	SIM_FDN	

	error	SIM_NO_ERROR
	record	RECORD_1
	max_record	RECORD_4
	length	LENGTH_FDN
	linear_data	FDN_RECORD_1
(12)	SIM_READ_RECORD_REQ	
	source	SRC_MMI
	datafield	SIM_FDN
	record	RECORD_2
	length	LENGTH_FDN
(13)	SIM_READ_RECORD_CNF	
	datafield	SIM_FDN
	error	SIM_NO_ERROR
	record	RECORD_2
	max_record	RECORD_4
	length	LENGTH_FDN
	linear_data	FDN_RECORD_2
(14)	SIM_READ_RECORD_REQ	
	source	SRC_MMI
	datafield	SIM_FDN
	record	RECORD_3
	length	NOT_USED
(15)	SIM_READ_RECORD_CNF	
	datafield	SIM_FDN
	error	SIM_NO_ERROR
	record	RECORD_3
	max_record	RECORD_4
	length	LENGTH_FDN
	linear_data	FDN_RECORD_3
(16)	SIM_READ_RECORD_REQ	
	source	SRC_MMI
	datafield	SIM_FDN
	record	RECORD_4
	length	NOT_USED
(17)	SIM_READ_RECORD_CNF	
	datafield	SIM_FDN
	error	SIM_NO_ERROR
	record	RECORD_4
	max_record	RECORD_4
	length	LENGTH_FDN
	linear_data	FDN_RECORD_4

History: 31.10.00

MFW

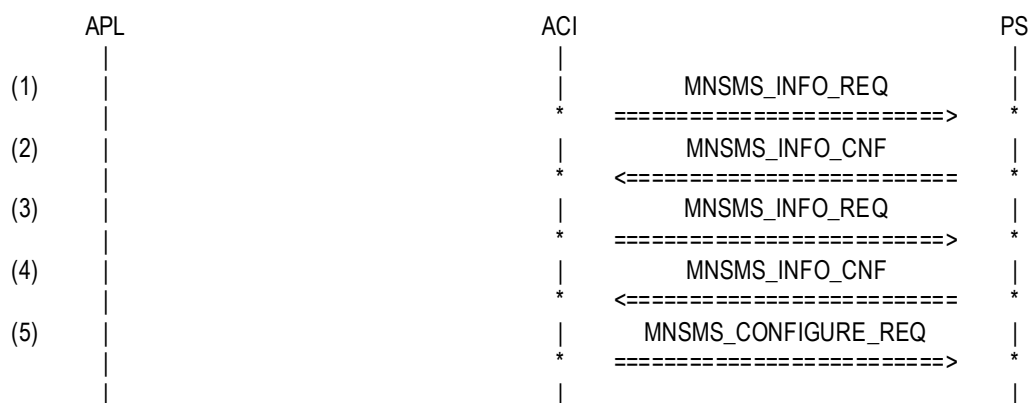
Initial

4.2.3 BMISAT004: Continue Power On Sequence: read SMS list and memory status (only ADN)

Description:

Preamble:

BMISAT002



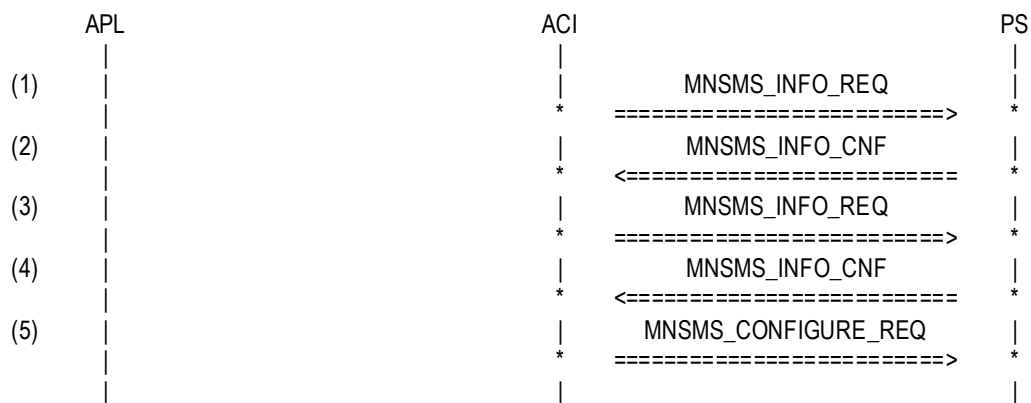
Primitive	Parameter	Value
(1) MNSMS_INFO_REQ		
	param	DUMMY
(2) MNSMS_INFO_CNF		
	total_sim	MAX_SIM_SMS_10
	used_sim	USED_SIM_SMS_0
	status_sim	NOT_USED
	total_me	NOT_USED
	used_me	NOT_USED
	status_me	NOT_USED
(3) MNSMS_INFO_REQ		
	param	DUMMY
(4) MNSMS_INFO_CNF		
	total_sim	MAX_SIM_SMS_10
	used_sim	USED_SIM_SMS_0
	status_sim	NOT_USED
	total_me	NOT_USED
	used_me	NOT_USED
	status_me	NOT_USED
(5) MNSMS_CONFIGURE_REQ		
	pref_mem_3	NOT_USED
	mt	MT2
	ds	DS1
	mhc	SMS MHC PH2

History:	1.11.00	MFW	Initial
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4.2.4 BMISAT005: Continue Power On Sequence: read SMS list and memory status (FDN enable)

Description:

Preamble: BMISAT003



Parametrization:

Primitive	Parameter	Value
(1) MNSMS_INFO_REQ		
	param	DUMMY
(2) MNSMS_INFO_CNF		
	total_sim	MAX_SIM_SMS_10
	used_sim	USED_SIM_SMS_0
	status_sim	NOT_USED
	total_me	NOT_USED
	used_me	NOT_USED
	status_me	NOT_USED
(3) MNSMS_INFO_REQ		
	param	DUMMY
(4) MNSMS_INFO_CNF		
	total_sim	MAX_SIM_SMS_10
	used_sim	USED_SIM_SMS_0
	status_sim	NOT_USED
	total_me	NOT_USED
	used_me	NOT_USED
	status_me	NOT_USED
(5) MNSMS_CONFIGURE_REQ		
	pref_mem_3	NOT_USED
	mt	MT2
	ds	DS1
	mhc	SMS_MHC_PH2

History: 1.11.00

MFW

Initial

4.3 SAT Proactive Command REFRESH

4.3.1 BMISAT101: SIM Reset Indication

Description:

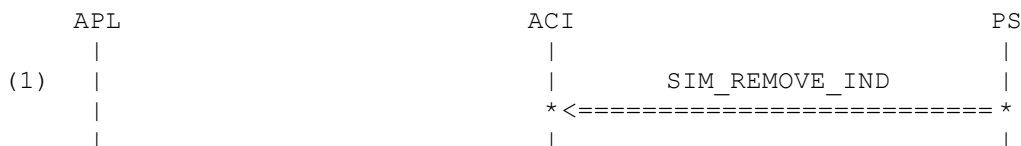
After power-on and SIM activation a primitive SIM_REMOVE_IND is received. If the error code is SIM_NO_ERROR, then it is a SAT command REFRESH (SIM Reset). The result is simulated with an unsolicited AT response.

Variants:

<A>....

Preamble:

BMISAT004



Parametrization:

Primitive	Parameter	Value
(1) SIM_REMOVE_IND		
<A>	error	SIM_NO_ERROR
	error	SIM_FATAL_ERROR

History: 31.10.2000

MFW

Initial

4.3.2 BMISAT102: SIM Activation after SIM Reset Indication.

Description:

After a SAT command REFRESH (SIM Reset) issued by the preamble a primitive SIM_ACTIVATE_IND is received. The error code is evaluated. The result is simulated with an unsolicited AT response.

Variants:

<A>....<C>

Preamble:

<A> BMISAT101A
 BMISAT101A
<C> BMISAT101A

APL	ACI	PS
TIMEOUT (1000)		
(1)	SIM_ACTIVATE_IND	
	* <=====*	
(2)	SIM_MMI_INSERT_IND	
	* <=====*	

Parametrization:

Primitive	Parameter	Value
(1) SIM_ACTIVATE_IND		
<A>	error	SIM_NO_ERROR
	error	SIM_INVALID_PIN_1
<C>	error	SIM_INVALID_PUK_1
<A>	pin_cnt	NUM_3
	pin_cnt	NUM_3
<C>	pin_cnt	NUM_0
puk_cnt	NUM_10	
pin2_cnt	NUM_3	
puk2_cnt	NUM_10	
ec_code	EC_CODES	
pref_lang	NOT_USED	
(2) SIM_MMI_INSERT_IND		
	func	SIM_ADN_ENABLED
	sim_serv	F_SIM_SRV_UPDATE
	imsi_field	NOT_USED
	pref_plmn	NOT_USED
	phase	PHASE_2_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED

History: 31.10.2000 MFW Initial

4.3.3 BMISAT201: SAT File Change Notification: no Update Required

Description:

ACI receives the primitive SIM_FILE_UPDATE_IND which includes various file identifiers of changed EFs. None of the EFs is buffered by the ACI, therefore the result primitive SIM_FILE_UPDATE_RESPONSE is returned without doing anything.

Preamble:

BMISAT004

APL	ACI	PS
(1)	SIM_FILE_UPDATE_IND	
	* <=====*	
(2)	SIM_FILE_UPDATE_RES	
	* =====>*	

Parametrization:

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

(1) SIM_FILE_UPDATE_IND	val_nr	NUM_1
	file_id	SAT_FU_IND_EF_KC
(2) SIM_FILE_UPDATE_RES	source	SRC_MMI
	fu_rsc	SIM_FU_SUCCESS

History: 31.10.2000 MFW Initial

4.3.4 BMISAT202: SAT File Change Notification: Update Required for SPN, But This Field is not allocated

Description:

ACI receives the primitive SIM_FILE_UPDATE_IND which includes various file identifiers of changed EFs. Any EF(SPN), EF(GID1), EF(GID2) or EF(SST) in the list triggers re-reading of these EFs by the ACI, then the result primitive SIM_FILE_UPDATE_RESPONSE is returned.

Preamble:

BMISAT004

APL	ACI	PS
TIMEOUT (1000)		
(1)	SIM_FILE_UPDATE_IND	
	* <=====*	
(2)	SIM_FILE_UPDATE_RES	
	* =====>*	

Parametrization:

Primitive	Parameter	Value
(1) SIM_FILE_UPDATE_IND	val_nr	NUM_1
	file_id	SAT_FU_IND_EF_SPN
(2) SIM_FILE_UPDATE_RES	source	SRC_MMI
	fu_rsc	SIM_FU_SUCCESS

History: 31.10.2000 MFW Initial

4.3.5 BMISAT203: SAT File Change Notification: Update Required SIM Service Table

Description:

ACI receives the primitive SIM_FILE_UPDATE_IND which includes various file identifiers of changed EFs. Any EF(SPN), EF(GID1), EF(GID2) or EF(SST) in the list triggers re-reading of these EFs by the ACI, then the result primitive SIM_FILE_UPDATE_RESPONSE is returned.

Preamble:

BMISAT004

APL	ACI	PS
TIMEOUT (1000)		


```

(1) | | SIM_FILE_UPDATE_IND |
    | | * <===== *
(2) | | SIM_READ_REQ |
    | | * =====> *
(3) | | SIM_READ_CNF |
    | | * <===== *
(4) | | SIM_READ_REQ |
    | | * =====> *
(5) | | SIM_READ_CNF |
    | | * <===== *
(6) | | SIM_FILE_UPDATE_RES |
    | | * =====> *
    | |

```

Parametrization:

Primitive	Parameter	Value
(1) SIM_FILE_UPDATE_IND	val_nr file_id	NUM_1 SAT_FU_IND_EF_SST
(2) SIM_READ_REQ	source offset datafield length max_length	SRC_MMI NUM_0 SIM_SST NOT_PRESENT_8BIT NUM_0
(3) SIM_READ_CNF	datafield error length trans_data	SIM_SST SIM_NO_ERROR NUM_10 F_SIM_SRV_UPDATE
(4) SIM_READ_REQ	source offset datafield length max_length	SRC_MMI NUM_0 SIM_SST NOT_PRESENT_8BIT NOT_USED
(5) SIM_READ_CNF	datafield error length trans_data	SIM_SST SIM_NO_ERROR NUM_10 F_SIM_SRV_UPDATE
(6) SIM_FILE_UPDATE_RES	source fu_rsc	SRC_MMI SIM_FU_SUCC_ADD

History: 31.10.2000 MFW Initial

4.3.6 BMISAT204: SAT File Change Notification: Update Required for GID1

Description:

ACI receives the primitive SIM_FILE_UPDATE_IND which includes various file identifiers of changed EFs. Any EF(SPN), EF(GID1), EF(GID2) or EF(SST) in the list triggers re-reading of these EFs by the ACI, then the result primitive SIM_FILE_UPDATE_RESPONSE is returned.

Preamble:

BMISAT004

APL	ACI	PS
TIMEOUT (1000)		
(1)	SIM_FILE_UPDATE_IND	
	* <=====*	
(2)	SIM_READ_REQ	
	* =====>*	
(3)	SIM_READ_CNF	
	* <=====*	
(4)	SIM_FILE_UPDATE_RES	
	* =====>*	

Parametrization:

Primitive	Parameter	Value
(1) SIM_FILE_UPDATE_IND	val_nr	NUM_1
	file_id	SAT_FU_IND_EF_GID1
(2) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_GID1
	length	NOT_PRESENT_8BIT
	max_length	NUM_5
(3) SIM_READ_CNF	datafield	SIM_GID1
	error	SIM_NO_ERROR
	length	NUM_5
	trans_data	GID1_11111
(4) SIM_FILE_UPDATE_RES	source	SRC_MMI
	fu_rsc	SIM_FU_SUCCESS

History: 31.10.2000 MFW Initial

4.3.7 BMISAT205: SAT File Change Notification: Update Required for GID2

Description:

ACI receives the primitive SIM_FILE_UPDATE_IND which includes various file identifiers of changed EFs. Any EF(SPN), EF(GID1), EF(GID2) or EF(SST) in the list triggers re-reading of these EFs by the ACI, then the result primitive SIM_FILE_UPDATE_RESPONSE is returned.

Preamble:

BMISAT004

APL	ACI	PS
TIMEOUT (1000)		
(1)	SIM_FILE_UPDATE_IND	
	* <=====*	
(2)	SIM_READ_REQ	
	* =====>*	
(3)	SIM_READ_CNF	
	* <=====*	
(4)	SIM_FILE_UPDATE_RES	
	* =====>*	

Parametrization:

Primitive	Parameter	Value
(1) SIM_FILE_UPDATE_IND	val_nr	NUM_1
	file_id	SAT_FU_IND_EF_GID2
(2) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_GID2
	length	NOT_PRESENT_8BIT
	max_length	NUM_5
(3) SIM_READ_CNF	datafield	SIM_GID2
	error	SIM_NO_ERROR
	length	NUM_5
	trans_data	GID2_22222
(4) SIM_FILE_UPDATE_RES	source	SRC_MMI
	fu_rsc	SIM_FU_SUCCESS

History: 31.10.2000 MFW Initial

4.3.8 BMISAT206: SAT File Change Notification: Update Required for SPN, SIM Service Table, GID2

Description:

ACI receives the primitive SIM_FILE_UPDATE_IND which includes various file identifiers of changed EFs. Any EF(SPN), EF(GID1), EF(GID2) or EF(SST) in the list triggers re-reading of these EFs by the ACI, then the result primitive SIM_FILE_UPDATE_RESPONSE is returned.

Preamble:

BMISAT004

APL	ACI	PS
TIMEOUT (1000)		
(1)	SIM_FILE_UPDATE_IND	
	* <=====	*
(2)	SIM_READ_REQ	
	* =====>	*
(3)	SIM_READ_CNF	
	* <=====	*
(4)	SIM_READ_REQ	
	* =====>	*
(5)	SIM_READ_CNF	
	* <=====	*
(6)	SIM_READ_REQ	
	* =====>	*
(7)	SIM_READ_CNF	
	* <=====	*
(8)	SIM_READ_REQ	
	* =====>	*
(9)	SIM_READ_CNF	
	* <=====	*
(10)	SIM_FILE_UPDATE_RES	
	* =====>	*

Parametrization:

Primitive	Parameter	Value
(7) SIM_FILE_UPDATE_IND	val_nr	NUM_4
	file_id	
SAT_FU_IND_EF_SPN_SST_GID2		
(8) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_SST
	length	NOT_PRESENT_8BIT
	max_length	NUM_0
(9) SIM_READ_CNF	datafield	SIM_SST
	error	SIM_NO_ERROR
	length	NUM_10
	trans_data	F_SIM_SRV_UPDATE
(10) SIM_READ_REQ	source	SRC_MMI

	offset	NUM_0
	datafield	SIM_SST
	length	NOT_PRESENT_8BIT
	max_length	NOT_USED
(11) SIM_READ_CNF		
	datafield	SIM_SST
	error	SIM_NO_ERROR
	length	NUM_10
(12) SIM_READ_REQ	trans_data	F_SIM_SRV_UPDATE
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_SPN
	length	NOT_PRESENT_8BIT
(13) SIM_READ_CNF	max_length	NUM_17
	datafield	SIM_SPN
	error	SIM_NO_ERROR
	length	NUM_17
(14) SIM_READ_REQ	trans_data	SPN_CONDAT
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_GID2
	length	NOT_PRESENT_8BIT
(15) SIM_READ_CNF	max_length	NUM_5
	datafield	SIM_GID2
	error	SIM_NO_ERROR
	length	NUM_5
(16) SIM_FILE_UPDATE_RES	trans_data	GID2_33333
	source	SRC_MMI
	fu_rsc	SIM_FU_SUCC_ADD

History: 31.10.2000 MFW Initial

4.3.9 BMISAT207: SAT File Change Notification: Update Required for CPHS Infomation, SIM Service Table, SMS

Description:

ACI receives the primitive SIM_FILE_UPDATE_IND which includes various file identifiers of changed EFs. Any EF(SPN), EF(GID1), EF(GID2) or EF(SST) in the list triggers re-reading of these EFs by the ACI, then the result primitive SIM_FILE_UPDATE_RESPONSE is returned.

Preamble:

BMISAT004

APL	ACI	PS
TIMEOUT (1000)		
(1)	SIM_FILE_UPDATE_IND	
	* <=====	*
(2)	SIM_READ_REQ	
	* =====>	*
(3)	SIM_READ_CNF	
	* <=====	*
(2)	SIM_READ_REQ	
	* =====>	*
(3)	SIM_READ_CNF	
	* <=====	*
(4)	SIM_READ_REQ	
	* =====>	*
(5)	SIM_READ_CNF	
	* <=====	*
(6)	MNSMS_INFO_REQ	
	* =====>	*
(7)	MNSMS_INFO_CNF	
	* <=====	*
(8)	MNSMS_INFO_REQ	
	* =====>	*
(9)	MNSMS_INFO_CNF	
	* <=====	*
(10)	SIM_FILE_UPDATE_RES	
	* =====>	*

Parametrization:

Primitive	Parameter	Value
(1) SIM_FILE_UPDATE_IND	val_nr file_id	NUM_3
(2) SAT_FU_IND_EF_SST_CINF_SMS SIM_READ_REQ	source offset datafield length max_length	SRC_MMI NUM_0 SIM_SST NOT_PRESENT_8BIT NUM_0
(3) SIM_READ_CNF	datafield error length trans_data	SIM_SST SIM_NO_ERROR NUM_10 F_SIM_SRV_UPDATE
(4) SIM_READ_REQ	source offset datafield length max_length	SRC_MMI NUM_0 SIM_SST NOT_PRESENT_8BIT NOT_USED
(5) SIM_READ_CNF	datafield error length trans_data	SIM_SST SIM_NO_ERROR NUM_10 F_SIM_SRV_UPDATE
(6) SIM_READ_REQ	source	SRC_MMI

	offset	NUM_0
	datafield	SIM_CPHS_CINF
	length	NOT_PRESENT_8BIT
	max_length	NUM_3
(7)	SIM_READ_CNF	
	datafield	SIM_CPHS_CINF
	error	SIM_NO_ERROR
	length	NUM_3
	trans_data	CPHS_CINF_UPDATE
(8)	MNSMS_INFO_REQ	
	param	DUMMY
(9)	MNSMS_INFO_CNF	
	total_sim	MAX_SIM_SMS_10
	used_sim	USED_SIM_SMS_0
	status_sim	NOT_USED
	total_me	NOT_USED
	used_me	NOT_USED
	status_me	NOT_USED
(10)	MNSMS_INFO_REQ	
	param	DUMMY
(11)	MNSMS_INFO_CNF	
	total_sim	MAX_SIM_SMS_10
	used_sim	USED_SIM_SMS_0
	status_sim	NOT_USED
	total_me	NOT_USED
	used_me	NOT_USED
	status_me	NOT_USED
(12)	SIM_FILE_UPDATE_RES	
	source	SRC_MMI
	fu_rsc	SIM_FU_SUCC_ADD

History: 31.10.2000 MFW Initial

4.3.10 BMISAT208: SAT File Change Notification: Update Required for FDN

Description:

ACI receives the primitive SIM_FILE_UPDATE_IND which includes various file identifiers of changed EFs. Any EF(SPN), EF(GID1), EF(GID2) or EF(SST) in the list triggers re-reading of these EFs by the ACI, then the result primitive SIM_FILE_UPDATE_RESPONSE is returned.

Preamble:

BMISAT005

APL	ACI	PS
TIMEOUT (1000)		
(1)	SIM_FILE_UPDATE_IND	
	* <=====*	
(2)	SIM_READ_RECORD_REQ	
	=====	
(3)	SIM_READ_RECORD_CNF	
	* <=====*	
(4)	SIM_READ_RECORD_REQ	
	=====	
(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_FILE_UPDATE_RES	
	=====	

Parametrization:

Primitive	Parameter	Value
(1) SIM_FILE_UPDATE_IND	val_nr file_id	NUM_1 SAT_FU_IND_EF_FDN
(2) SIM_READ_RECORD_REQ	source datafield record length	SRC_MMI SIM_FDN RECORD_1 NOT_USED
(3) SIM_READ_RECORD_CNF	datafield error record max_record length linear_data	SIM_FDN SIM_NO_ERROR RECORD_1 RECORD_4 LENGTH_FDN FDN_UPDATE_RECORD_1
(4) SIM_READ_RECORD_REQ	source datafield record length	SRC_MMI SIM_FDN RECORD_2 LENGTH_FDN
(5) SIM_READ_RECORD_CNF	datafield error record max_record length linear_data	SIM_FDN SIM_NO_ERROR RECORD_2 RECORD_4 LENGTH_FDN FDN_UPDATE_RECORD_2
(6) SIM_READ_RECORD_REQ	source datafield record	SRC_MMI SIM_FDN RECORD_3

(7) SIM_READ_RECORD_CNF	length	NOT_USED
	datafield	SIM_FDN
	error	SIM_NO_ERROR
	record	RECORD_3
	max_record	RECORD_4
	length	LENGTH_FDN
(8) SIM_READ_RECORD_REQ	linear_data	FDN_UPDATE_RECORD_3
	source	SRC_MMI
	datafield	SIM_FDN
	record	RECORD_4
	length	NOT_USED
(9) SIM_READ_RECORD_CNF	datafield	SIM_FDN
	error	SIM_NO_ERROR
	record	RECORD_4
	max_record	RECORD_4
	length	LENGTH_FDN
	linear_data	FDN_UPDATE_RECORD_4
(10)SIM_FILE_UPDATE_RES	source	SRC_MMI
	fu_rsc	SIM_FU_SUCC_ADD

History: 7.11.2000 MFW Initial

4.3.11 BMISAT209: SAT File Change Notification: Update SIM Service Table for Phonebook

Description:

SIM service table (for ADN and FDN) is changed. ADN and FDN will be updated.

Preamble:

BMISAT004

APL	ACI	PS
TIMEOUT (1000)		
(1)	SIM_FILE_UPDATE_IND	
(2)	SIM_READ_REQ	
(3)	SIM_READ_CNF	
(4)	SIM_READ_RECORD_REQ	
(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	
			<=====	
(14)			SIM_READ_RECORD_REQ	
			=====>	
(15)			SIM_READ_RECORD_CNF	
			<=====	
(16)			SIM_READ_RECORD_REQ	
			=====>	
(17)			SIM_READ_RECORD_CNF	
			<=====	
(18)			SIM_READ_RECORD_REQ	
			=====>	
(19)			SIM_READ_RECORD_CNF	
			<=====	
(20)			SIM_READ_RECORD_REQ	
			=====>	
(21)			SIM_READ_RECORD_CNF	
			<=====	
(22)			SIM_READ_RECORD_REQ	
			=====>	
(23)			SIM_READ_RECORD_CNF	
			<=====	
(24)			SIM_READ_REQ	
			=====> *	
(25)			SIM_READ_CNF	
			<=====	
(26)			SIM_FILE_UPDATE_RES	
			=====> *	

Parametrization:

	Primitive	Parameter	Value
(1)	SIM_FILE_UPDATE_IND	val_nr file_id	NUM_1 SAT_FU_IND_EF_SST
(2)	SIM_READ_REQ	source offset datafield length max_length	SRC_MMI NUM_0 SIM_SST NOT_PRESENT_8BIT NUM_0
(3)	SIM_READ_CNF	datafield error length trans_data	SIM_SST SIM_NO_ERROR NUM_10
(4)	F_SIM_SRV_UPDATE_ADN_FDN SIM_READ_RECORD_REQ	source datafield record length	SRC_MMI SIM_ADN RECORD_1 NOT_USED
(5)	SIM_READ_RECORD_CNF	datafield	SIM_ADN

	error	SIM_NO_ERROR
	record	RECORD_1
	max_record	RECORD_6
	length	LENGTH_ADN
(6) SIM_READ_RECORD_REQ	linear_data	ADN_RECORD_1
	source	SRC_MMI
	data field	SIM_ADN
	record	RECORD_2
(7) SIM_READ_RECORD_CNF	length	LENGTH_ADN
	data field	SIM_ADN
	error	SIM_NO_ERROR
	record	RECORD_2
	max_record	RECORD_6
	length	LENGTH_ADN
(8) SIM_READ_RECORD_REQ	linear_data	ADN_RECORD_2
	source	SRC_MMI
	data field	SIM_ADN
	record	RECORD_3
(9) SIM_READ_RECORD_CNF	length	NOT_USED
	data field	SIM_ADN
	error	SIM_NO_ERROR
	record	RECORD_3
	max_record	RECORD_6
	length	LENGTH_ADN
(10) SIM_READ_RECORD_REQ	linear_data	ADN_RECORD_3
	source	SRC_MMI
	data field	SIM_ADN
	record	RECORD_4
(11) SIM_READ_RECORD_CNF	length	NOT_USED
	data field	SIM_ADN
	error	SIM_NO_ERROR
	record	RECORD_4
	max_record	RECORD_6
	length	LENGTH_ADN
(12) SIM_READ_RECORD_REQ	linear_data	ADN_RECORD_4
	source	SRC_MMI
	data field	SIM_ADN
	record	RECORD_5
(13) SIM_READ_RECORD_CNF	length	NOT_USED
	data field	SIM_ADN
	error	SIM_NO_ERROR
	record	RECORD_5
	max_record	RECORD_6
	length	LENGTH_ADN
(14) SIM_READ_RECORD_REQ	linear_data	ADN_RECORD_5
	source	SRC_MMI
	data field	SIM_ADN
	record	RECORD_6
(15) SIM_READ_RECORD_CNF	length	NOT_USED

	datafield	SIM_ADN
	error	SIM_NO_ERROR
	record	RECORD_6
	max_record	RECORD_6
	length	LENGTH_ADN
(16) SIM_READ_RECORD_REQ	linear_data	ADN_RECORD_6
	source	SRC_MMI
	datafield	SIM_FDN
	record	RECORD_1
(17) SIM_READ_RECORD_CNF	length	NOT_USED
	datafield	SIM_FDN
	error	SIM_NO_ERROR
	record	RECORD_1
	max_record	RECORD_4
	length	LENGTH_FDN
(18) SIM_READ_RECORD_REQ	linear_data	FDN_UPDATE_RECORD_1
	source	SRC_MMI
	datafield	SIM_FDN
	record	RECORD_2
(19) SIM_READ_RECORD_CNF	length	LENGTH_FDN
	datafield	SIM_FDN
	error	SIM_NO_ERROR
	record	RECORD_2
	max_record	RECORD_4
	length	LENGTH_FDN
(20) SIM_READ_RECORD_REQ	linear_data	FDN_UPDATE_RECORD_2
	source	SRC_MMI
	datafield	SIM_FDN
	record	RECORD_3
(21) SIM_READ_RECORD_CNF	length	NOT_USED
	datafield	SIM_FDN
	error	SIM_NO_ERROR
	record	RECORD_3
	max_record	RECORD_4
	length	LENGTH_FDN
(22) SIM_READ_RECORD_REQ	linear_data	FDN_UPDATE_RECORD_3
	source	SRC_MMI
	datafield	SIM_FDN
	record	RECORD_4
(23) SIM_READ_RECORD_CNF	length	NOT_USED
	datafield	SIM_FDN
	error	SIM_NO_ERROR
	record	RECORD_4
	max_record	RECORD_4
	length	LENGTH_FDN
(24) SIM_READ_REQ	linear_data	FDN_UPDATE_RECORD_4
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_SST

	length	NOT_PRESENT_8BIT
	max_length	NOT_USED
(25) SIM_READ_CNF		
	datafield	SIM_SST
	error	SIM_NO_ERROR
	length	NUM_10
	trans_data	
F_SIM_SRV_UPDATE_ADN_FDN		
(26) SIM_FILE_UPDATE_RES		
	source	SRC_MMI
	fu_rsc	SIM_FU_SUCC_ADD

History: 09.11.2000 MFW Initial

4.3.12 BMISAT210: SAT File Change Notification: Update Required for FDN and GID1

Description:

ACI receives the primitive SIM_FILE_UPDATE_IND which includes various file identifiers of changed EFs. Any EF(SPN), EF(GID1), EF(GID2) or EF(SST) in the list triggers re-reading of these EFs by the ACI, then the result primitive SIM_FILE_UPDATE_RESPONSE is returned.

Preamble:

BMISAT005

APL	ACI	PS
TIMEOUT (1000)		
(1)	SIM_FILE_UPDATE_IND	
	* <=====*	
(2)	SIM_READ_RECORD_REQ	
	=====>	
(3)	SIM_READ_RECORD_CNF	
	* <=====*	
(4)	SIM_READ_RECORD_REQ	
	=====>	
(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_REQ	
	=====>	
(11)	SIM_READ_CNF	
	* <=====*	
(12)	SIM_FILE_UPDATE_RES	
	=====>	

Parametrization:

Primitive	Parameter	Value
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(1)	SIM_FILE_UPDATE_IND	val_nr file_id	NUM_2 SAT_FU_IND_EF_FDN_GID1
(2)	SIM_READ_RECORD_REQ	source datafield record length	SRC_MMI SIM_FDN RECORD_1 NOT_USED
(3)	SIM_READ_RECORD_CNF	datafield error record max_record length linear_data	SIM_FDN SIM_NO_ERROR RECORD_1 RECORD_4 LENGTH_FDN FDN_UPDATE_RECORD_1
(4)	SIM_READ_RECORD_REQ	source datafield record length	SRC_MMI SIM_FDN RECORD_2 LENGTH_FDN
(5)	SIM_READ_RECORD_CNF	datafield error record max_record length linear_data	SIM_FDN SIM_NO_ERROR RECORD_2 RECORD_4 LENGTH_FDN FDN_UPDATE_RECORD_2
(6)	SIM_READ_RECORD_REQ	source datafield record length	SRC_MMI SIM_FDN RECORD_3 NOT_USED
(7)	SIM_READ_RECORD_CNF	datafield error record max_record length linear_data	SIM_FDN SIM_NO_ERROR RECORD_3 RECORD_4 LENGTH_FDN FDN_UPDATE_RECORD_3
(8)	SIM_READ_RECORD_REQ	source datafield record length	SRC_MMI SIM_FDN RECORD_4 NOT_USED
(9)	SIM_READ_RECORD_CNF	datafield error record max_record length linear_data	SIM_FDN SIM_NO_ERROR RECORD_4 RECORD_4 LENGTH_FDN FDN_UPDATE_RECORD_4
(10)	SIM_READ_REQ	source offset datafield length max_length	SRC_MMI NUM_0 SIM_GID1 NOT_PRESENT_8BIT NUM_5
(11)	SIM_READ_CNF	datafield	SIM_GID1

		error	SIM_NO_ERROR
		length	NUM_5
		trans_data	GID1_11111
(12)	SIM_FILE_UPDATE_RES		
	source	SRC_MMI	
	fu_rsc	SIM_FU_SUCC_ADD	

History: 09.11.2000 MFW Initial

4.3.13 BMISAT211: SAT File Change Notification: Update SIM Service Table for Phonebook with Error Reading of SIM Service Table

Description:

SIM service table (for ADN and FDN) is changed. ADN and FDN will be updated.

Preamble:

BMISAT004

APL	ACI	PS
TIMEOUT (1000)		
(1)	SIM_FILE_UPDATE_IND	
	* <=====*	
(2)	SIM_READ_REQ	
	* =====>*	
(3)	SIM_READ_CNF	
	* <=====*	
(4)	SIM_READ_REQ	
	* =====>*	
(5)	SIM_READ_CNF	
	* <=====*	
(6)	SIM_FILE_UPDATE_RES	
	* =====>*	

Parametrization:

	Primitive	Parameter	Value
(1)	SIM_FILE_UPDATE_IND	val_nr	NUM_1
		file_id	SAT_FU_IND_EF_SST
(2)	SIM_READ_REQ	source	SRC_MMI
		offset	NUM_0
		datafield	SIM_SST
		length	NOT_PRESENT_8BIT
		max_length	NUM_0
(3)	SIM_READ_CNF	datafield	SIM_SST
		error	SIM_FATAL_ERROR
		length	NUM_10
		trans_data	
	F_SIM_SRV_UPDATE_ADN_FDN		
(4)	SIM_READ_REQ	source	SRC_MMI
		offset	NUM_0
		datafield	SIM_SST

(5)	SIM_READ_CNF	length	NOT_PRESENT_8BIT
		max_length	NOT_USED
(6)	F_SIM_SRV_UPDATE_ADN_FDN SIM_FILE_UPDATE_RES	datafield	SIM_SST
		error	SIM_FATAL_ERROR
		length	NUM_10
		trans_data	
		source	SRC_MMI
		fu_rsc	SIM_FU_SUCC_ADD

History: 09.11.2000 MFW Initial

4.3.14 BMISAT212: SAT File Change Notification: Update SIM Service Table for Phonebook with Error Reading of first ADN Record

Description:

SIM service table (for ADN and FDN) is changed. ADN and FDN will be updated.

Preamble:

BMISAT004

APL	ACI	PS
TIMEOUT (1000)		
(1)	SIM_FILE_UPDATE_IND	
	* <=====*	
(2)	SIM_READ_REQ	
	* =====>*	
(3)	SIM_READ_CNF	
	* <=====*	
(4)	SIM_READ_REQ	
	* =====>*	
(5)	SIM_READ_CNF	
	* <=====*	
(6)	SIM_FILE_UPDATE_RES	
	* =====>*	

Parametrization:

Primitive	Parameter	Value
(1) SIM_FILE_UPDATE_IND	val_nr	NUM_1
	file_id	SAT_FU_IND_EF_SST
(2) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_SST
	length	NOT_PRESENT_8BIT
	max_length	NUM_0
(3) SIM_READ_CNF	datafield	SIM_SST
	error	SIM_FATAL_ERROR
	length	NUM_10
	trans_data	
F_SIM_SRV_UPDATE_ADN_FDN		

(4)	SIM_READ_REQ	source	SRC_MMI
		offset	NUM_0
		datafield	SIM_SST
		length	NOT_PRESENT_8BIT
		max_length	NOT_USED
(5)	SIM_READ_CNF	datafield	SIM_SST
		error	SIM_NO_ERROR
		length	NUM_10
		trans_data	
(6)	F_SIM_SRV_UPDATE_ADN_FDN		
	SIM_FILE_UPDATE_RES	source	SRC_MMI
		fu_rsc	SIM_FU_SUCC_ADD

History: 09.11.2000 MFW Initial

4.3.15 BMISAT300: Supplementary Service: Closed User Group - Set State/Get State

Description:

Set parameter for cug: cug_index, cug_mode, cug_info MFW to ACI,
Get parameter for cug: cug_index, cug_mode, cug_info ACI to MFW

Preamble:

BMISAT002

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= 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= 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 (4000)		
COMMAND (MMI CONFIG KEY_SEQUENCE= RIGHT)		

Parametrization:

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
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History: 07.11.2000 MFW 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/>>