Technical Document - Confidential

GSM PROTOCOL STACK
TEST SPECIFICATION
BMI (PART A)

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1.   Initial version

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[84]   Technical Documentation CCD
            6147.706.97.100; Condat GmbH

1.2 Abbreviations

AGCH   Access Grant Channel
BCCH   Broadcast Control Channel
BS   Base Station
BSIC   Base Station Identification Code
CBCH   Cell Broadcast Channel
CBQ   Cell Bar Qualify
CC   Call Control
CCCH   Common Control Channel
CCD   Condat Coder Decoder
CKSN   Ciphering Key Sequence Number
C/R   Command / 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

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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_262_03)
DECLARATION (PLMN_NO_ID)
DECLARATION (MCC_NONE)
DECLARATION (MNC_NONE)
DECLARATION (MCC_262)
DECLARATION (MCC_765)
DECLARATION (MNC_01)
DECLARATION (MNC_02)
DECLARATION (MNC_03)
DECLARATION (IMSI)

#define PIN_1   1
#define PIN_2   2
#define PUK_1   3
#define PUK_2   4

BYTE   TI_MO_0   0x00
BYTE NUM_0 0
BYTE NUM_1 1
BYTE NUM_2 2
BYTE NUM_3 3
BYTE NUM_9 9
BYTE NUM_10 10
BYTE V_PLMN_PRES 1
BYTE V_PLMN_NOT_PRES 0
FIELD (PREF_PLMN)
                                        0x32, 0xF8, 0x10,
                                        0x32, 0xF8, 0x20,
                                        0x02, 0xF8, 0x10,
                                        0x02, 0xF8, 0x01,
                                        0xFF, 0xFF, 0xFF,
                                        0xFF, 0xFF, 0xFF,
                                        0xFF, 0xFF, 0xFF,
                                        0xFF, 0xFF, 0xFF,
                                        0xFF, 0xFF, 0xFF,
                                        0xFF, 0xFF, 0xFF
ENDFIELD (PREF_PLMN, 30)

FIELD (PIN_1_VALUE)
                                        0x31,0x32,0x33,0x34,0xFF,0xFF, 0xFF,0xFF
ENDFIELD (PIN_1_VALUE, 8)
FIELD (PIN_1_VALUE_B)
                                        0x31,0x31,0x32,0x34,0xFF,0xFF, 0xFF,0xFF
ENDFIELD (PIN_1_VALUE_B, 8)
FIELD (PIN_1_VALUE_C)
                                        0x31,0x31,0x31,0x31,0xFF,0xFF, 0xFF,0xFF
ENDFIELD (PIN_1_VALUE_C, 8)
FIELD (PIN_1_VALUE_D)
                                        0x31,0x32,0x33,0x34,0x35,0x36, 0x37,0x38

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```
ENDFIELD (PIN_1_VALUE_D, 8)
FIELD (PIN_1_VALUE_E)
                                    0x31,0x32,0x33,0x35,0x36, 0x37,0x38,0x39
ENDFIELD (PIN_1_VALUE_E, 8)
FIELD (PIN_1_VALUE_F)
                                    0x31,0x32,0x33,0x33,0xFF, 0xFF,0xFF,0xFF
ENDFIELD (PIN_1_VALUE_F, 8)
FIELD (PIN_1_VALUE_G)
                                    0x31,0x32,0x33,0xFF,0xFF, 0xFF,0xFF,0xFF
ENDFIELD (PIN_1_VALUE_G, 8)
FIELD (PUK_1_VALUE)
                                    0x31,0x32,0x33,0x34,0x35,0x36, 0x37,0x38
ENDFIELD (PUK_1_VALUE, 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) 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
ENDFIELD (F_SIM_SRV, 10)
BEGINARRAY (MCC_262, 3) 0x02, 0x06, 0x02 ENDARRAY
BEGINARRAY (MCC_765, 3) 0x07, 0x06, 0x05 ENDARRAY
BEGINARRAY (MNC_01, 2) 0x00, 0x01 ENDARRAY
BEGINARRAY (MNC_02, 2) 0x00, 0x02 ENDARRAY
BEGINARRAY (MNC_03, 2) 0x00, 0x03 ENDARRAY
BEGINARRAY (MCC_NONE, 3) 0x0F, 0x0F, 0x0F ENDARRAY
BEGINARRAY (MNC_NONE, 3) 0x0F, 0x0F, 0x0F ENDARRAY
BEGINARRAY (IMSI, 9) 0x08, 0x19, 0x32, 0x33, 0x74, 0x11, 0x94, 0x21, 0xFF ENDARRAY

BEGIN_PSTRUCT ("plmn", PLMN_262_01)
          SET_COMP ("v_plmn",             V_PLMN_PRES)
          SET_COMP ("mcc",                MCC_262)
          SET_COMP ("mnc",                MNC_01)
ENDSTRUCT
BEGIN_PSTRUCT ("plmn", PLMN_262_02)
          SET_COMP ("v_plmn",             V_PLMN_PRES)
          SET_COMP ("mcc",                MCC_262)
          SET_COMP ("mnc",                MNC_02)
ENDSTRUCT
BEGIN_PSTRUCT ("plmn", PLMN_262_03)
          SET_COMP ("v_plmn",             V_PLMN_PRES)
          SET_COMP ("mcc",                MCC_262)
          SET_COMP ("mnc",                MNC_03)
ENDSTRUCT
BEGIN_PSTRUCT ("plmn", PLMN_NO_ID)
          SET_COMP ("v_plmn",             V_PLMN_NOT_PRES)
          SET_COMP ("mcc",                MCC_NONE)
          SET_COMP ("mnc",                MNC_NONE)
ENDSTRUCT
```

4 TEST CASES

4.1 Routing (internal)

4.1.1 BMIA001: 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 Component Tests

4.2.1   BMIA200: Power On Sequence

Description:
Preamble: BMIA001

```
     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

	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	NOT_USED
(5) SIM_READ_CNF		
	datafield	SIM_CPHS_CINF
	error	SIM_NO_ERROR
	length	NOT_USED
	trans_data	NOT_USED
(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

History:	10.08.98		ACI	Initial

4.2.2 BMIA201: Power On Sequence with PIN entering

Description:
Preamble: BMIA001

```
     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          |
      |                              *<=========================== *
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=2)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=3)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=4)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=LEFT)
(8)   |                              |      SIM_VERIFY_PIN_REQ      |
      |                              *===========================>*
(9)   |                              |      SIM_VERIFY_PIN_CNF      |
      |                              *<=========================== *
(10)  |                              |      MMR_PLMN_MODE_REQ       |
      |                              *===========================>*
(11)  |                              |         MMR_REG_REQ          |
      |                              *===========================>*
(12)  |                              |         MMR_REG_CNF          |
      |                              *<===========================*
(13)  |                              |      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_INVALID_PIN_1	
pin_cnt	NUM_3	
puk_cnt	NUM_10	
pin2_cnt	NUM_3	
puk2_cnt	NUM_10	

TEXAS INSTRUMENTS

    ec_code   NOT_USED
    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   NOT_USED

(5) SIM_READ_CNF
    datafield   SIM_CPHS_CINF
    error   SIM_NO_ERROR
    length   NOT_USED
    trans_data   NOT_USED

(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) SIM_VERIFY_PIN_REQ
    source   SRC_MMI
    pin   PIN_1_VALUE
    pin_id   PIN_1

(9) SIM_VERIFY_PIN_CNF
    error   SIM_NO_ERROR
    pin_id   PIN_1
    pin_cnt   NUM_3
    puk_cnt   NUM_10
    pin2_cnt   NUM_3
    puk2_cnt   NUM_10

(10) MMR_PLMN_MODE_REQ
    mode   MODE_AUTO

(11) MMR_REG_REQ
    service_mode   SERVICE_MODE_FULL

(12) MMR_REG_CNF
    plmn   PLMN_262_01

(13) MMR_PLMN_MODE_REQ
    mode   MODE_AUTO

History: 10.08.98   ACI   Initial

4.2.3 BMIA202: Power On Sequence, limited service

Description:
Preamble: BMIA001

```
     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_NREG_IND      |
     |                                *<==========================*
     |                                |                           |
```

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	NOT_USED
	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

![Texas Instruments logo]

		length	NOT_PRESENT_8BIT
		max_length	NOT_USED

(5) SIM_READ_CNF

		datafield	SIM_CPHS_CINF
		error	SIM_NO_ERROR
		length	NOT_USED
		trans_data	NOT_USED

(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_NREG_IND

		nreg_cs	NREG_LIMITED_SERVICE
		search_running	SEARCH_NOT_RUNNING
		new_forb_plmn	PLMN_NO_ID
		limited_cause	MMR_RC_NONE

History:		10.08.98	ACI Initial

4.2.4 BMIA203: Power On Sequence, no service

Description:
Preamble: BMIA001

```
    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_NREG_IND       |
```

TEXAS INSTRUMENTS

```
          |                              *<==========================*
          |                              |                          |
```

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	NOT_USED
	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	NOT_USED	
(5) SIM_READ_CNF		
datafield	SIM_CPHS_CINF	
error	SIM_NO_ERROR	
length	NOT_USED	
trans_data	NOT_USED	
(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

TEXAS INSTRUMENTS

(10) MMR_NREG_IND

	nreg_cs	NREG_NO_SERVICE
	search_running	SEARCH_NOT_RUNNING
	new_forb_plmn	PLMN_NO_ID
	limited_cause	MMR_RC_NONE

History: 10.08.98   ACI Initial

4.2.5 BMIA204: Power On Sequence, No SIM card, limited service

Description:
Preamble: BMIA001

```
    APL                          ACI                          PS
     |                            |                            |
COMMAND (MMI CONFIG KEY_SEQUENCE=POWER)
(1)  |                            |      SIM_ACTIVATE_REQ       |
     |                            *===========================> *
(2)  |                            |      SIM_ACTIVATE_CNF       |
     |                            *<=========================== *
(3)  |                            |      MMR_PLMN_MODE_REQ      |
     |                            *===========================>*
(4)  |                            |          MMR_REG_REQ       |
     |                            *===========================>*
(5)  |                            |         MMR_NREG_IND       |
     |                            *<==========================*
     |                            |                            |
```

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_FATAL_ERROR
	pin_cnt	NUM_3
	puk_cnt	NUM_10
	pin2_cnt	NUM_3
	puk2_cnt	NUM_10
	ec_code	NOT_USED
	pref_lang	NOT_USED
(3) MMR_PLMN_MODE_REQ		
	mode	MODE_AUTO
(4) MMR_REG_REQ		
	service_mode	SERVICE_MODE_FULL
(5) MMR_NREG_IND		
	nreg_cs	NREG_NO_SERVICE
	search_running	SEARCH_NOT_RUNNING
	new_forb_plmn	PLMN_NO_ID
	limited_cause	MMR_RC_NONE
History:	10.08.98	ACI Initial

4.2.6 BMIA205: Power On Sequence, No SIM card, no service

Description:
Preamble: BMIA001

```
     APL                           ACI                           PS
      |                             |                             |
COMMAND (MMI CONFIG KEY_SEQUENCE=POWER)
(1)   |                             |      SIM_ACTIVATE_REQ       |
      |                             *===========================> *
(2)   |                             |      SIM_ACTIVATE_CNF       |
      |                             *<=========================== *
(3)   |                             |      MMR_PLMN_MODE_REQ      |
      |                              *===========================>*
(4)   |                             |        MMR_REG_REQ          |
      |                              *===========================>*
(5)   |                             |        MMR_NREG_IND         |
      |                              *<==========================*
      |                             |                             |
```

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_FATAL_ERROR
	pin_cnt	NUM_3
	puk_cnt	NUM_10
	pin2_cnt	NUM_3
	puk2_cnt	NUM_10
	ec_code	NOT_USED
	pref_lang	NOT_USED
(3) MMR_PLMN_MODE_REQ		
	mode	MODE_AUTO
(4) MMR_REG_REQ		
	service_mode	SERVICE_MODE_FULL
(5) MMR_NREG_IND		
	nreg_cs	NREG_NO_SERVICE
	search_running	SEARCH_NOT_RUNNING
	new_forb_plmn	PLMN_NO_ID
	limited_cause	MMR_RC_NONE
History:	10.08.98	ACI Initial

4.2.7 BMIA206: Power On Sequence, Invalid SIM card, limited service

Description:
Preamble: BMIA001

TEXAS INSTRUMENTS

```
      APL                            ACI                          PS
       |                              |                            |
COMMAND (MMI CONFIG KEY_SEQUENCE=POWER)
(1)    |                              |       SIM_ACTIVATE_REQ      |
       |                              *===========================> *
(2)    |                              |       SIM_ACTIVATE_CNF      |
       |                              *<=========================== *
(3)    |                              |      MMR_PLMN_MODE_REQ      |
       |                              *===========================>*
(4)    |                              |        MMR_REG_REQ         |
       |                              *===========================>*
(5)    |                              |        MMR_NREG_IND        |
       |                              *<==========================*
       |                              |                            |
```

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_INVALID_CARD
	pin_cnt	NUM_3
	puk_cnt	NUM_10
	pin2_cnt	NUM_3
	puk2_cnt	NUM_10
	ec_code	NOT_USED
	pref_lang	NOT_USED
(3) MMR_PLMN_MODE_REQ		
	mode	MODE_AUTO
(4) MMR_REG_REQ		
	service_mode	SERVICE_MODE_FULL
(5) MMR_NREG_IND		
	nreg_cs	NREG_LIMITED_SERVICE
	search_running	SEARCH_NOT_RUNNING
	new_forb_plmn	PLMN_NO_ID
	limited_cause	MMR_RC_NONE
History:	10.08.98	ACI Initial

4.2.8　BMIA207: Power On Sequence, Invalid SIM card, no service

Description:
Preamble:　　BMIA001

```
    APL                             ACI                            PS
     |                               |                              |
COMMAND (MMI CONFIG KEY_SEQUENCE=POWER)
(1)  |                               |         SIM_ACTIVATE_REQ     |
     |                               *============================> *
(2)  |                               |         SIM_ACTIVATE_CNF     |
     |                               *<============================ *
(3)  |                               |        MMR_PLMN_MODE_REQ     |
     |                               *============================> *
(4)  |                               |           MMR_REG_REQ        |
     |                               *============================> *
(5)  |                               |          MMR_NREG_IND        |
     |                               *<============================ *
     |                               |                              |
```

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_INVALID_CARD
	pin_cnt	NUM_3
	puk_cnt	NUM_10
	pin2_cnt	NUM_3
	puk2_cnt	NUM_10
	ec_code	NOT_USED
	pref_lang	NOT_USED
(3) MMR_PLMN_MODE_REQ		
	mode	MODE_AUTO
(4) MMR_REG_REQ		
	service_mode	SERVICE_MODE_FULL
(5) MMR_NREG_IND		
	nreg_cs	NREG_NO_SERVICE
	search_running	SEARCH_NOT_RUNNING
	new_forb_plmn	PLMN_NO_ID
	limited_cause	MMR_RC_NONE
History:	10.08.98	ACI Initial

4.2.9　BMIA208: Power On Sequence, Blocked SIM card

Description:
Preamble:　　BMIA001

```
      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       |
       |                                * <========================== *
       |                                |                             |
```

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_INVALID_PUK_1
	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	NOT_USED
(5) SIM_READ_CNF		
	datafield	SIM_CPHS_CINF
	error	SIM_NO_ERROR
	length	NOT_USED
	trans_data	NOT_USED
(6) SIM_READ_REQ		
	source	SRC_MMI

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	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

History: 10.08.98   ACI   Initial

4.2.10 BMIA210: Power On Sequence with PIN entering, initial testcase

Description:
Preamble: BMIA001

```
     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          |
      |                                *<=========================== *
      |                                |                                |
```

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_INVALID_PIN_1
	pin_cnt	NUM_3
	puk_cnt	NUM_10
	pin2_cnt	NUM_3
	puk2_cnt	NUM_10
	ec_code	NOT_USED
	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

TEXAS INSTRUMENTS

		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	NOT_USED

(5) SIM_READ_CNF

datafield	SIM_CPHS_CINF
error	SIM_NO_ERROR
length	NOT_USED
trans_data	NOT_USED

(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

History:	10.08.98	ACI Initial

4.2.11 BMIA211: Power On Sequence with PIN entering, enter digits, success-full

Description:
Preamble: BMIA210
Variants: <A> .. <C>

```
      APL                           ACI                              PS
       |                             |                                |
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=2)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=3)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=4)
COMMAND (MMI CONFIG KEY_SEQUENCE=LEFT)
(3)    |                             |      SIM_VERIFY_PIN_REQ       |
       |                             *=============================> *
(4)    |                             |      SIM_VERIFY_PIN_CNF       |
       |                             *<============================= *
(5)    |                             |      MMR_PLMN_MODE_REQ        |
       |                             *=============================>*
(6)    |                             |          MMR_REG_REQ         |
       |                             *=============================>*
(7)    |                             |          MMR_REG_CNF         |
       |                             *<=============================*
(8)    |                             |      MMR_PLMN_MODE_REQ        |
       |                             *=============================>*
       |                             |                                |
```

Parametrization:

Primitive	Parameter	Value
(1) SIM_VERIFY_PIN_REQ		
	source	SRC_MMI
	pin	PIN_1_VALUE
	pin_id	PIN_1
(2) SIM_VERIFY_PIN_CNF		
	error	SIM_NO_ERROR
	pin_id	PIN_1
	pin_cnt	NUM_3
	puk_cnt	NUM_10
	pin2_cnt	NUM_3
	puk2_cnt	NUM_10
(3) MMR_PLMN_MODE_REQ		
	mode	MODE_AUTO
(4) MMR_REG_REQ		
	service_mode	SERVICE_MODE_FULL
(5) MMR_REG_CNF		
<A>	plmn	PLMN_262_01
<B>	plmn	PLMN_262_02
<C>	plmn	PLMN_262_03
(6) MMR_PLMN_MODE_REQ		
mode	MODE_AUTO	

History: 10.08.98   ACI Initial

4.2.12 BMIA212: Power On Sequence with PIN entering, enter digits and clear

Description:

Preamble: BMIA210

```
     APL                           ACI                          PS
      |                             |                            |
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=RIGHT)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=2)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=4)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=LEFT)
(1)   |                             |        SIM_VERIFY_PIN_REQ   |
      |                             *===========================> *
(2)   |                             |        SIM_VERIFY_PIN_CNF   |
      |                             *<=========================== *
(3)   |                             |        MMR_PLMN_MODE_REQ    |
      |                             *===========================>*
(4)   |                             |           MMR_REG_REQ       |
      |                             *===========================>*
(5)   |                             |           MMR_REG_CNF       |
      |                             *<===========================*
(6)   |                             |        MMR_PLMN_MODE_REQ    |
      |                             *===========================>*
      |                             |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) SIM_VERIFY_PIN_REQ		
	source	SRC_MMI
	pin	PIN_1_VALUE_B
	pin_id	PIN_1
(2) SIM_VERIFY_PIN_CNF		
	error	SIM_NO_ERROR
	pin_id	PIN_1
	pin_cnt	NUM_3
	puk_cnt	NUM_10
	pin2_cnt	NUM_3
	puk2_cnt	NUM_10
(3) MMR_PLMN_MODE_REQ		
	mode	MODE_AUTO
(4) MMR_REG_REQ		
	service_mode	SERVICE_MODE_FULL
(5) MMR_REG_CNF		
	plmn	PLMN_262_01
(6) MMR_PLMN_MODE_REQ		
	mode	MODE_AUTO

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History: 10.08.98   ACI Initial

4.2.13 BMIA213: Power On Sequence with PIN entering, enter digits and clear II

Description:
Preamble: BMIA210

```
     APL                             ACI                         PS
      |                               |                           |
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=2)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=4)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=RIGHT)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=RIGHT)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=LEFT)
(1)   |                               |      SIM_VERIFY_PIN_REQ    |
      |                               *===========================> *
(2)   |                               |      SIM_VERIFY_PIN_CNF    |
      |                               *<=========================== *
(3)   |                               |      MMR_PLMN_MODE_REQ     |
      |                               *===========================>*
(4)   |                               |         MMR_REG_REQ        |
      |                               *===========================>*
(5)   |                               |         MMR_REG_CNF        |
      |                               *<===========================*
(6)   |                               |      MMR_PLMN_MODE_REQ     |
      |                               *===========================>*
      |                               |                           |
```

Parametrization:

Primitive	Parameter	Value
(1) SIM_VERIFY_PIN_REQ		
	source	SRC_MMI
	pin	PIN_1_VALUE_C
	pin_id	PIN_1
(2) SIM_VERIFY_PIN_CNF		
	error	SIM_NO_ERROR
	pin_id	PIN_1
	pin_cnt	NUM_3
	puk_cnt	NUM_10
	pin2_cnt	NUM_3
	puk2_cnt	NUM_10
(3) MMR_PLMN_MODE_REQ		
	mode	MODE_AUTO
(4) MMR_REG_REQ		
	service_mode	SERVICE_MODE_FULL
(5) MMR_REG_CNF		
	plmn	PLMN_262_01

(6) MMR_PLMN_MODE_REQ		
	mode	MODE_AUTO
History:	10.08.98	ACI Initial

4.2.14 BMIA214: Power On Sequence with PIN entering, clear if nothing to clear

Description:
Preamble: BMIA210

```
     APL                                 ACI                              PS
      |                                   |                                |
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=RIGHT)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=RIGHT)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=RIGHT)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=RIGHT)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=LEFT)
(1)   |                                   |      SIM_VERIFY_PIN_REQ       |
      |                                   *=============================> *
(2)   |                                   |      SIM_VERIFY_PIN_CNF       |
      |                                   *<============================= *
(3)   |                                   |      MMR_PLMN_MODE_REQ        |
      |                                   *============================>*
(4)   |                                   |         MMR_REG_REQ          |
      |                                   *============================>*
(5)   |                                   |         MMR_REG_CNF          |
      |                                   *<============================*
(6)   |                                   |      MMR_PLMN_MODE_REQ        |
      |                                   *============================>*
      |                                   |                              |
```

Parametrization:

Primitive	Parameter	Value
(1) SIM_VERIFY_PIN_REQ		
	source	SRC_MMI
	pin	PIN_1_VALUE_C
	pin_id	PIN_1
(2) SIM_VERIFY_PIN_CNF		
	error	SIM_NO_ERROR
	pin_id	PIN_1
	pin_cnt	NUM_3

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		puk_cnt	NUM_10
		pin2_cnt	NUM_3
		puk2_cnt	NUM_10
(3)	MMR_PLMN_MODE_REQ		
		mode	MODE_AUTO
(4)	MMR_REG_REQ		
		service_mode	SERVICE_MODE_FULL
(5)	MMR_REG_CNF		
		plmn	PLMN_262_01
(6)	MMR_PLMN_MODE_REQ		
		mode	MODE_AUTO

History: 10.08.98   ACI Initial

TEXAS INSTRUMENTS

4.2.15 BMIA215: Power On Sequence with PIN entering, exact eight digits

Description:
Preamble: BMIA210

```
     APL                              ACI                              PS
      |                                |                                |
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=2)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=3)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=4)
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=7)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=8)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=LEFT)
(1)   |                                |    SIM_VERIFY_PIN_REQ    |
      |                                *===========================> *
(2)   |                                |    SIM_VERIFY_PIN_CNF    |
      |                                * <=========================== *
(3)   |                                |    MMR_PLMN_MODE_REQ    |
      |                                *===========================>*
(4)   |                                |       MMR_REG_REQ       |
      |                                *===========================>*
(5)   |                                |       MMR_REG_CNF       |
      |                                * <===========================*
(6)   |                                |    MMR_PLMN_MODE_REQ    |
      |                                *===========================>*
      |                                |                                |
```

Parametrization:

Primitive	Parameter	Value
(1) SIM_VERIFY_PIN_REQ		
	source	SRC_MMI
	pin	PIN_1_VALUE_D
	pin_id	PIN_1
(2) SIM_VERIFY_PIN_CNF		
	error	SIM_NO_ERROR
	pin_id	PIN_1
	pin_cnt	NUM_3
	puk_cnt	NUM_10
	pin2_cnt	NUM_3
	puk2_cnt	NUM_10
(3) MMR_PLMN_MODE_REQ		
	mode	MODE_AUTO
(4) MMR_REG_REQ		
	service_mode	SERVICE_MODE_FULL
(5) MMR_REG_CNF		
	plmn	PLMN_262_01

(6) MMR_PLMN_MODE_REQ

                    mode   MODE_AUTO

History: 10.08.98   ACI Initial

4.2.16 BMIA216: Power On Sequence with PIN entering, exact eight digits with clearing

Description:

Preamble: BMIA210

```
     APL                              ACI                            PS
      |                                |                              |
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=2)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=3)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=4)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=RIGHT)
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=7)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=8)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=9)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=LEFT)
(1)   |                                |    SIM_VERIFY_PIN_REQ     |
      |                                *=========================> *
(2)   |                                |    SIM_VERIFY_PIN_CNF     |
      |                                *<========================= *
(3)   |                                |    MMR_PLMN_MODE_REQ      |
      |                                *=========================>*
(4)   |                                |       MMR_REG_REQ         |
      |                                *=========================>*
(5)   |                                |       MMR_REG_CNF         |
      |                                *<=========================*
(6)   |                                |    MMR_PLMN_MODE_REQ      |
      |                                *=========================>*
      |                                |                          |
```

Parametrization:

Primitive	Parameter	Value
(1) SIM_VERIFY_PIN_REQ		
	source	SRC_MMI
	pin	PIN_1_VALUE_E
	pin_id	PIN_1
(2) SIM_VERIFY_PIN_CNF		
	error	SIM_NO_ERROR
	pin_id	PIN_1
	pin_cnt	NUM_3
	puk_cnt	NUM_10
	pin2_cnt	NUM_3
	puk2_cnt	NUM_10
(3) MMR_PLMN_MODE_REQ		
	mode	MODE_AUTO

(4) MMR_REG_REQ

            service_mode   SERVICE_MODE_FULL

(5) MMR_REG_CNF

            plmn   PLMN_262_01

(6) MMR_PLMN_MODE_REQ

            mode   MODE_AUTO

History: 10.08.98   ACI Initial

TEXAS INSTRUMENTS

4.2.17 BMIA217: Power On Sequence with PIN entering, more then eight digits

Description:
Preamble: BMIA210

```
     APL                                ACI                                PS
      |                                  |                                  |
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=2)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=3)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=4)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=RIGHT)
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=7)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=8)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=9)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=0)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=0)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=LEFT)
(1)   |                                  |        SIM_VERIFY_PIN_REQ        |
      |                                  *========================> *
(2)   |                                  |        SIM_VERIFY_PIN_CNF        |
      |                                  *<======================== *
(3)   |                                  |        MMR_PLMN_MODE_REQ         |
      |                                  *========================>*
(4)   |                                  |           MMR_REG_REQ           |
      |                                  *========================>*
(5)   |                                  |           MMR_REG_CNF           |
      |                                  *<========================*
(6)   |                                  |        MMR_PLMN_MODE_REQ         |
      |                                  *========================>*
      |                                  |                                  |
```

Parametrization:

Primitive	Parameter	Value
(1) SIM_VERIFY_PIN_REQ		
	source	SRC_MMI
	pin	PIN_1_VALUE_E
	pin_id	PIN_1
(2) SIM_VERIFY_PIN_CNF		
	error	SIM_NO_ERROR
	pin_id	PIN_1
	pin_cnt	NUM_3
	puk_cnt	NUM_10
	pin2_cnt	NUM_3
	puk2_cnt	NUM_10

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(3) MMR_PLMN_MODE_REQ

                               mode   MODE_AUTO

(4) MMR_REG_REQ

              service_mode   SERVICE_MODE_FULL

(5) MMR_REG_CNF

             plmn   PLMN_262_01

(6) MMR_PLMN_MODE_REQ

             mode   MODE_AUTO

History:	10.08.98	ACI Initial

4.2.18 BMIA218: Power On Sequence with PIN entering, okay after three digits

Description:
Preamble: BMIA210

```
     APL                                ACI                               PS
      |                                  |                                 |
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=2)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=3)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=LEFT)
(1)   |                                  |      SIM_VERIFY_PIN_REQ    |
      |                                  * ===========================> *
(2)   |                                  |      SIM_VERIFY_PIN_CNF    |
      |                                  * <=========================== *
      |                                  |                                 |
```

Parametrization:

Primitive	Parameter	Value
(1) SIM_VERIFY_PIN_REQ		
	source	SRC_MMI
	pin	PIN_1_VALUE_G
	pin_id	PIN_1
(2) SIM_VERIFY_PIN_CNF		
	error	SIM_INVALID_PIN_1
	pin_id	PIN_1
	pin_cnt	NUM_2
	puk_cnt	NUM_10
	pin2_cnt	NUM_3
	puk2_cnt	NUM_10

History:		10.08.98	ACI Initial

4.2.19 BMIA219: Power On Sequence with PIN entering, wrong keys used

Description:
Preamble: BMIA210

```
     APL                              ACI                              PS
      |                                |                                |
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=2)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=3)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=STAR)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=3)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=LEFT)
(1)   |                                |     SIM_VERIFY_PIN_REQ     |
      |                                *========================> *
(2)   |                                |     SIM_VERIFY_PIN_CNF     |
      |                                *<======================== *
(3)   |                                |     MMR_PLMN_MODE_REQ      |
      |                                *========================>*
(4)   |                                |        MMR_REG_REQ         |
      |                                *========================>*
(5)   |                                |        MMR_REG_CNF         |
      |                                *<========================*
(6)   |                                |     MMR_PLMN_MODE_REQ      |
      |                                *========================>*
      |                                |                                |
```

Parametrization:

Primitive	Parameter	Value
(1) SIM_VERIFY_PIN_REQ		
	source	SRC_MMI
	pin	PIN_1_VALUE_F
	pin_id	PIN_1
(2) SIM_VERIFY_PIN_CNF		
	error	SIM_NO_ERROR
	pin_id	PIN_1
	pin_cnt	NUM_3
	puk_cnt	NUM_10
	pin2_cnt	NUM_3
	puk2_cnt	NUM_10
(3) MMR_PLMN_MODE_REQ		
	mode	MODE_AUTO
(4) MMR_REG_REQ		
	service_mode	SERVICE_MODE_FULL
(5) MMR_REG_CNF		
	plmn	PLMN_262_01
(6) MMR_PLMN_MODE_REQ		
	mode	MODE_AUTO
History:	10.08.98	ACI Initial

TEXAS INSTRUMENTS

4.2.20 BMIA220: Power On Sequence with PIN entering, failure on verification

Description:

Preamble: BMIA210

```
     APL                                 ACI                                 PS
      |                                   |                                   |
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=2)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=3)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=3)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=LEFT)
 (1)  |                                   |       SIM_VERIFY_PIN_REQ       |
      |                                   *===========================> *
 (2)  |                                   |       SIM_VERIFY_PIN_CNF       |
      |                                   *<=========================== *
TIMEOUT_WAIT(5000)
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=2)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=3)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=4)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=LEFT)
 (3)  |                                   |       SIM_VERIFY_PIN_REQ       |
      |                                   *===========================> *
 (4)  |                                   |       SIM_VERIFY_PIN_CNF       |
      |                                   *<=========================== *
 (5)  |                                   |       MMR_PLMN_MODE_REQ        |
      |                                   *===========================>*
 (6)  |                                   |          MMR_REG_REQ           |
      |                                   *===========================>*
 (7)  |                                   |          MMR_REG_CNF           |
      |                                   *<==========================*
 (8)  |                                   |       MMR_PLMN_MODE_REQ        |
      |                                   *===========================>*
      |                                   |                                   |
```

Parametrization:

Primitive	Parameter	Value
(1) SIM_VERIFY_PIN_REQ		
	source	SRC_MMI
	pin	PIN_1_VALUE_F
	pin_id	PIN_1
(2) SIM_VERIFY_PIN_CNF		
	error	SIM_INVALID_PIN_1
	pin_id	PIN_1
	pin_cnt	NUM_2
	puk_cnt	NUM_10
	pin2_cnt	NUM_3
	puk2_cnt	NUM_10
(3) SIM_VERIFY_PIN_REQ		
	source	SRC_MMI

	pin	PIN_1_VALUE
	pin_id	PIN_1
(4) SIM_VERIFY_PIN_CNF		
	error	SIM_NO_ERROR
	pin_id	PIN_1
	pin_cnt	NUM_3
	puk_cnt	NUM_10
	pin2_cnt	NUM_3
	puk2_cnt	NUM_10
(5) MMR_PLMN_MODE_REQ		
	mode	MODE_AUTO
(6) MMR_REG_REQ		
	service_mode	SERVICE_MODE_FULL
(7) MMR_REG_CNF		
	plmn	PLMN_262_01
(8) MMR_PLMN_MODE_REQ		
	mode	MODE_AUTO

History:	10.08.98	ACI Initial

TEXAS INSTRUMENTS

4.2.21 BMIA221: Power On Sequence with PIN entering, general failure - test-case don't run

Description:
Preamble: BMIA210

```
     APL                              ACI                              PS
      |                                |                                |
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=2)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=3)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=3)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=LEFT)
 (1)  |                                |      SIM_VERIFY_PIN_REQ       |
      |                                *=========================> *
 (2)  |                                |      SIM_VERIFY_PIN_CNF      |
      |                                *<========================= *
TIMEOUT_WAIT (5000)
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=2)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=3)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=4)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=LEFT)
 (3)  |                                |      SIM_VERIFY_PIN_REQ       |
      |                                *=========================> *
 (4)  |                                |      SIM_VERIFY_PIN_CNF      |
      |                                *<========================= *
 (5)  |                                |      MMR_PLMN_MODE_REQ       |
      |                                *=========================>*
 (6)  |                                |         MMR_REG_REQ          |
      |                                *=========================>*
 (7)  |                                |         MMR_REG_CNF          |
      |                                *<=========================*
 (8)  |                                |      MMR_PLMN_MODE_REQ       |
      |                                *=========================>*
      |                                |                                |
```

Parametrization:

Primitive	Parameter	Value
(1) SIM_VERIFY_PIN_REQ		
	source	SRC_MMI
	pin	PIN_1_VALUE_F
	pin_id	PIN_1
(2) SIM_VERIFY_PIN_CNF		
	error	SIM_FATAL_ERROR
	pin_id	PIN_1
	pin_cnt	NUM_2
	puk_cnt	NUM_10
	pin2_cnt	NUM_3
	puk2_cnt	NUM_10

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(3) SIM_VERIFY_PIN_REQ

source	SRC_MMI
pin	PIN_1_VALUE
pin_id	PIN_1

(4) SIM_VERIFY_PIN_CNF

error	SIM_NO_ERROR
pin_id	PIN_1
pin_cnt	NUM_3
puk_cnt	NUM_10
pin2_cnt	NUM_3
puk2_cnt	NUM_10

(5) MMR_PLMN_MODE_REQ

mode	MODE_AUTO

(6) MMR_REG_REQ

service_mode	SERVICE_MODE_FULL

(7) MMR_REG_CNF

plmn	PLMN_262_01

(8) MMR_PLMN_MODE_REQ

mode	MODE_AUTO

History:	10.08.98	ACI Initial

4.2.22 BMIA222: Power On Sequence with PIN entering, repeated failures on verification

Description:
Preamble: BMIA210

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

Parametrization:

Primitive	Parameter	Value
(1) SIM_VERIFY_PIN_REQ		
	source	SRC_MMI
	pin	PIN_1_VALUE_F
	pin_id	PIN_1
(2) SIM_VERIFY_PIN_CNF		
	error	SIM_INVALID_PIN_1
	pin_id	PIN_1
	pin_cnt	NUM_2
	puk_cnt	NUM_10

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		pin2_cnt	NUM_3
		puk2_cnt	NUM_10
(3)	SIM_VERIFY_PIN_REQ		
		source	SRC_MMI
		pin	PIN_1_VALUE_F
		pin_id	PIN_1
(4)	SIM_VERIFY_PIN_CNF		
		error	SIM_INVALID_PIN_1
		pin_id	PIN_1
		pin_cnt	NUM_1
		puk_cnt	NUM_10
		pin2_cnt	NUM_3
		puk2_cnt	NUM_10
(5)	SIM_VERIFY_PIN_REQ		
		source	SRC_MMI
		pin	PIN_1_VALUE_F
		pin_id	PIN_1
(6)	SIM_VERIFY_PIN_CNF		
		error	SIM_INVALID_PUK_1
		pin_id	PIN_1
		pin_cnt	NUM_0
		puk_cnt	NUM_10
		pin2_cnt	NUM_3
		puk2_cnt	NUM_10

History: 10.08.98   ACI Initial

4.2.23 BMIA223: Power On Sequence, PUK verification, successful case, without registration (missing in bmi_regi: SimManEH)

Description:
Preamble: BMIA222

```
     APL                              ACI                              PS
      |                                |                                |
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=2)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=3)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=4)
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=7)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=8)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=LEFT)
TIMEOUT_WAIT (5000)
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=2)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=3)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=4)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=LEFT)
TIMEOUT_WAIT (5000)
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=2)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=3)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=4)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=LEFT)
 (1)  |                                |         SIM_UNBLOCK_REQ        |
      |                                *============================> *
 (2)  |                                |         SIM_UNBLOCK_CNF       |
      |                                *<============================ *
 (3)  |                                |        SIM_MMI_INSERT_IND     |
      |                                *<============================ *
 (4)  |                                |          SIM_READ_REQ         |
      |                                *============================> *
 (5)  |                                |          SIM_READ_CNF         |
      |                                *<============================ *
 (6)  |                                |          SIM_READ_REQ         |
      |                                *============================> *
 (7)  |                                |          SIM_READ_CNF         |
      |                                *<============================ *
      |                                |                                |
```

Parametrization:

Primitive	Parameter	Value
(1) SIM_UNBLOCK_REQ		
	source	SRC_MMI
	unblock_key	PUK_1_VALUE
	pin	PIN_1_VALUE
	pin_id	PUK_1
(2) SIM_UNBLOCK_CNF		
	error	SIM_NO_ERROR
	pin_id	PUK_1
	pin_cnt	NUM_3
	puk_cnt	NUM_10
	pin2_cnt	NUM_3
	puk2_cnt	NUM_10
(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	NOT_USED
(5) SIM_READ_CNF		
	datafield	SIM_CPHS_CINF
	error	SIM_NO_ERROR
	length	NOT_USED
	trans_data	NOT_USED
(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

History:	10.08.98	ACI Initial

4.2.24 BMIA224: Power On Sequence, PUK verification, new PIN is different, switch off

Description:
Preamble: BMIA222

```
      APL                           ACI                        PS
       |                             |                          |
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=2)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=3)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=4)
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=7)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=8)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=LEFT)
TIMEOUT_WAIT (5000)
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=2)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=3)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=4)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=LEFT)
TIMEOUT_WAIT (5000)
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=2)
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=LEFT)
(1)    |                             |         SIM_SYNC_REQ      |
       |                             *=========================> *
(2)    |                             |         SIM_SYNC_CNF      |
       |                             *<========================= *
(3)    |                             |         MMR_NREG_REQ      |
       |                             *=========================>*
       |                             |                          |
```

Parametrization:

Primitive	Parameter	Value
(1) SIM_SYNC_REQ		
	synccs	SYNC_DEACTIVATE
(2) SIM_SYNC_CNF		
	param	NOT_USED
(3) MMR_NREG_REQ		
	cs	CS_POW_OFF

History:	10.08.98	ACI Initial

4.2.25 BMIA225: Power On Sequence, PUK verification, PUK is wrong

Description:
Preamble: BMIA222

TEXAS INSTRUMENTS

```
     APL                            ACI                            PS
      |                              |                              |
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=2)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=3)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=4)
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=7)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=8)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=LEFT)
TIMEOUT_WAIT (5000)
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=2)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=3)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=4)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=LEFT)
TIMEOUT_WAIT (5000)
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=2)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=3)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=4)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=LEFT)
(1)   |                              |        SIM_UNBLOCK_REQ        |
      |                              *===========================> *
(2)   |                              |        SIM_UNBLOCK_CNF       |
      |                              *<=========================== *
TIMEOUT_WAIT (4000)
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=2)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=3)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=4)
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=7)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=8)
TIMEOUT_WAIT (2000)
```

```
COMMAND (MMI CONFIG KEY_SEQUENCE=LEFT)
TIMEOUT_WAIT (5000)
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=2)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=3)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=4)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=LEFT)
TIMEOUT_WAIT (5000)
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=2)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=3)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=4)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=LEFT)
(3)    |                              |         SIM_UNBLOCK_REQ       |
       |                              *===========================> *
(4)    |                              |         SIM_UNBLOCK_CNF      |
       |                              *<=========================== *
(5)    |                              |       SIM_MMI_INSERT_IND     |
       |                              *<=========================== *
(6)    |                              |          SIM_READ_REQ        |
       |                              *===========================> *
(7)    |                              |          SIM_READ_CNF        |
       |                              *<=========================== *
(8)    |                              |          SIM_READ_REQ        |
       |                              *===========================> *
(9)    |                              |          SIM_READ_CNF        |
       |                              *<=========================== *
       |                              |                              |
```

Parametrization:

Primitive	Parameter	Value
(1) SIM_UNBLOCK_REQ		
	source	SRC_MMI
	unblock_key	PUK_1_VALUE
	pin	PIN_1_VALUE
	pin_id	PUK_1
(2) SIM_UNBLOCK_CNF		
	error	SIM_INVALID_PUK_1
	pin_id	PUK_1
	pin_cnt	NUM_0
	puk_cnt	NUM_9
	pin2_cnt	NUM_3
	puk2_cnt	NUM_10
(3) SIM_UNBLOCK_REQ		
	source	SRC_MMI
	unblock_key	PUK_1_VALUE
	pin	PIN_1_VALUE
	pin_id	PUK_1
(4) SIM_UNBLOCK_CNF		
	error	SIM_NO_ERROR

	pin_id	PUK_1
	pin_cnt	NUM_3
	puk_cnt	NUM_10
	pin2_cnt	NUM_3
	puk2_cnt	NUM_10

(5) 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

(6) SIM_READ_REQ

	source	SRC_MMI
	offset	NOT_USED
	datafield	SIM_CPHS_CINF
	length	NOT_PRESENT_8BIT
	max_length	NOT_USED

(7) SIM_READ_CNF

	datafield	SIM_CPHS_CINF
	error	SIM_NO_ERROR
	length	NOT_USED
	trans_data	NOT_USED

(8) SIM_READ_REQ

	source	SRC_MMI
	offset	NOT_USED
	datafield	SIM_ECC
	length	NOT_PRESENT_8BIT
	max_length	NOT_USED

(9) SIM_READ_CNF

	datafield	SIM_ECC
	error	SIM_NO_ERROR
	length	NOT_USED
	trans_data	NOT_USED

History: 10.08.98   ACI Initial

TEXAS INSTRUMENTS

4.2.26 BMIA226: Power On Sequence, PUK verification, long pressed clear

Description:
Preamble: BMIA222

TEXAS INSTRUMENTS

```
    APL                              ACI                              PS
     |                                |                                |
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=2)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=3)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=4)
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_PRESS=RIGHT)
TIMEOUT_WAIT (2200)
COMMAND (MMI CONFIG KEY_RELEASE=RIGHT)
TIMEOUT_WAIT (2200)
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=2)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=3)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=4)
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=7)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=8)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=LEFT)
TIMEOUT_WAIT (5000)
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=2)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=3)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=4)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=LEFT)
TIMEOUT_WAIT (5000)
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=2)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=3)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=4)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=LEFT)
(1)  |                                |         SIM_UNBLOCK_REQ        |
     |                                *==========================> *
(2)  |                                |         SIM_UNBLOCK_CNF       |
     |                                *<========================== *
(3)  |                                |       SIM_MMI_INSERT_IND      |
```

TEXAS INSTRUMENTS

```
       |                          *<========================= *
(4)    |                          |      SIM_READ_REQ        |
       |                          *=========================> *
(5)    |                          |      SIM_READ_CNF        |
       |                          *<========================= *
(6)    |                          |      SIM_READ_REQ        |
       |                          *=========================> *
(7)    |                          |      SIM_READ_CNF        |
       |                          *<========================= *
       |                          |                          |
```

Parametrization:

Primitive	Parameter	Value
(1) SIM_UNBLOCK_REQ		
	source	SRC_MMI
	unblock_key	PUK_1_VALUE
	pin	PIN_1_VALUE
	pin_id	PUK_1
(2) SIM_UNBLOCK_CNF		
	error	SIM_NO_ERROR
	pin_id	PUK_1
	pin_cnt	NUM_3
	puk_cnt	NUM_10
	pin2_cnt	NUM_3
	puk2_cnt	NUM_10
(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	NOT_USED
(5) SIM_READ_CNF		
	datafield	SIM_CPHS_CINF
	error	SIM_NO_ERROR
	length	NOT_USED
	trans_data	NOT_USED
(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

TEXAS INSTRUMENTS

	length	NOT_USED
	trans_data	NOT_USED

History: 10.08.98   ACI Initial

4.2.27 BMIA227: Power On Sequence, PUK verification, new PIN, long pressed clear

Description:
Preamble: BMIA222

TEXAS INSTRUMENTS

```
      APL                              ACI                              PS
       |                                |                                |
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=2)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=3)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=4)
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=7)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=8)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=LEFT)
TIMEOUT_WAIT (5000)
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=2)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_PRESS=RIGHT)
TIMEOUT_WAIT (2200)
COMMAND (MMI CONFIG KEY_RELEASE=RIGHT)
TIMEOUT_WAIT (2200)
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=2)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=3)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=4)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=LEFT)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=2)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=3)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=4)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=LEFT)
(1)    |                                |      SIM_UNBLOCK_REQ         |
       |                                *===========================> *
(2)    |                                |      SIM_UNBLOCK_CNF         |
       |                                *<=========================== *
(3)    |                                |     SIM_MMI_INSERT_IND       |
       |                                *<=========================== *
(4)    |                                |        SIM_READ_REQ          |
       |                                *===========================> *
(5)    |                                |        SIM_READ_CNF          |
       |                                *<=========================== *
(6)    |                                |        SIM_READ_REQ          |
       |                                *===========================> *
(7)    |                                |        SIM_READ_CNF          |
```

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```
    |                          * <========================= *
    |                          |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) SIM_UNBLOCK_REQ		
	source	SRC_MMI
	unblock_key	PUK_1_VALUE
	pin	PIN_1_VALUE
	pin_id	PUK_1
(2) SIM_UNBLOCK_CNF		
	error	SIM_NO_ERROR
	pin_id	PUK_1
	pin_cnt	NUM_3
	puk_cnt	NUM_10
	pin2_cnt	NUM_3
	puk2_cnt	NUM_10
(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	NOT_USED
(5) SIM_READ_CNF		
	datafield	SIM_CPHS_CINF
	error	SIM_NO_ERROR
	length	NOT_USED
	trans_data	NOT_USED
(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

History: 10.08.98   ACI Initial

4.2.28 BMIA228: Power On Sequence, Invalid Sim Card, start Emergency call

Description:
Preamble: BMIA206

```
       APL                          ACI                              PS
        |                            |                                |
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=1)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=2)
TIMEOUT_WAIT (2000)
COMMAND (MMI CONFIG KEY_SEQUENCE=SEND)
(1)     |                            |          MNCC_SETUP_REQ        |
        |                            *===========================> *
        |                            |                                |
```

Parametrization:

Primitive	Parameter	Value
(1) MNCC_SETUP_REQ		
	ti	TI_MO_0
	prio	PRIO_EMERG_CALL
	ri	NOT_USED
	bcpara	NOT_USED
	bcpara2	NOT_USED
	called_party	NOT_USED
	called_party_sub	NOT_USED
	clir_sup	NOT_USED
	fac_inf	NOT_USED

History:	10.08.98	ACI Initial

Appendices

A.   Acronyms

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

B.   Glossary

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

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