GSM Fax & Data Services

Test Specification
ACIATI

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1.1 References

[1] Rec. T.4 Standardisation of group 3 facsimile apparatus for document transmission;
(CCITT-T.4, 1984)

[2] ITU-T Recommendation T.30; Series T: Terminal equipments and protocols for telematic services;
Procedures for document facsimile transmission in the general switched
telephone network;
(ITU-T.30, 1996)

[3] ITU-T Recommendation T.31; Terminals for telematic services;
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(ITU-T.31, 1995)

[4] ITU-T Recommendation T.32; Terminals for telematic services;
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(ITU-T.32, 1995)

[5] Rec. T.35; Terminal equipment and protocols for telematic services;
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[6] ITU-T Recommendation V.25 ter; Series V: data communication over the telephone network;
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[7] Rec. V.42 bis Data compression procedures for data circuit terminating equipment (DCE) using error correction procedures;
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[13] European digital cellular telecommunications system (Phase 2);
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[14] European digital cellular telecommunications system (Phase 2);
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and the Base Station System - Mobile-service Switching Centre (BSS - MSC) interface
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[27] Service Access Point RLP
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[28] Service Access Point L2R
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[29] Service Access Point FAD
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[30] Service Access Point T30
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[31] Service Access Point ACI
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[33] Message Sequence Charts L2R
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[44] SDL Specification L2R
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[52] Technical Documentation ACI
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1.2 Abbreviations

ACI	AT Command Interpreter
AGCH	Access Grant Channel
AT	Attention sequence "AT" to indicate valid commands of the ACI
BCCH	Broadcast Control Channel
BCS	Binary Coded Signals
BS	Base Station
BSIC	Base Station Identification Code
C/R	Command/Response
C1	Path Loss Criterion
C2	Reselection Criterion
CBCH	Cell Broadcast Channel
CBQ	Cell Bar Qualify
CC	Call Control
CCCH	Common Control Channel
CCD	Condat Coder Decoder
CKSN	Ciphering Key Sequence Number
CRC	Cyclic Redundancy Check
DCCH	Dedicated Control Channel
DISC	Disconnect Frame
DL	Data Link Layer
DM	Disconnected Mode Frame
DTX	Discontinuous Transmission
EA	Extension Bit Address Field
EL	Extension Bit Length Field
EMMI	Electrical Man Machine Interface
EOL	End Of Line
F	Final Bit
F&D	Fax and Data Protocol Stack
FACCH	Fast Associated Control Channel
FHO	Forced Handover
GP	Guard Period
GSM	Global System for Mobile Communication
HDLC	High level Data Link Control
HISR	High level Interrupt Service Routine
HPLMN	Home Public Land Mobile Network
I	Information Frame
IMEI	International Mobile Equipment Identity
IMSI	International Mobile Subscriber Identity
ITU	International Telecommunication Union
IWF	Interworking Function
Kc	Authentication Key
L	Length Indicator
LAI	Location Area Information
LISR	Low level Interrupt Service Routine
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
MSG	Message phase in the GSM 3.45 protocol
N®	Receive Number
N(S)	Send Number
NCC	National Colour Code
NECI	New Establishment Causes included
OTD	Observed Time Difference
P	Poll Bit
P/F	Poll/Final Bit
PCH	Paging Channel
PCO	Point of Control and Observation
PDU	Protocol Description Unit
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
RTOS	Real Time Operating System
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
T.4	CCITT Standardisation for Document coding of Group 3 Facsimile Apparatus
TAP	Test Application Program
TCH	Traffic Channel
TCH/F	Traffic Channel Full Rate
TCH/H	Traffic Channel Half Rate
TDMA	Time Division Multiple Access
TE	Terminal Equipment - e. g. a PC
TMSI	Temporary Mobile Subscriber Identity
UA	Unnumbered Acknowledgement Frame
UI	Unnumbered Information Frame
V(A)	Acknowledgement State Variable
V®	Receive State Variable
V(S)	Send State Variable
VPLMN	Visiting Public Land Mobile Network

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 protocol stack for fax and data transmission consists of several entities. Each entity has one ore more service access points, over which the entity provides a service for the upper entity. The entity, which is described in this document, is coloured grey in the following figure :

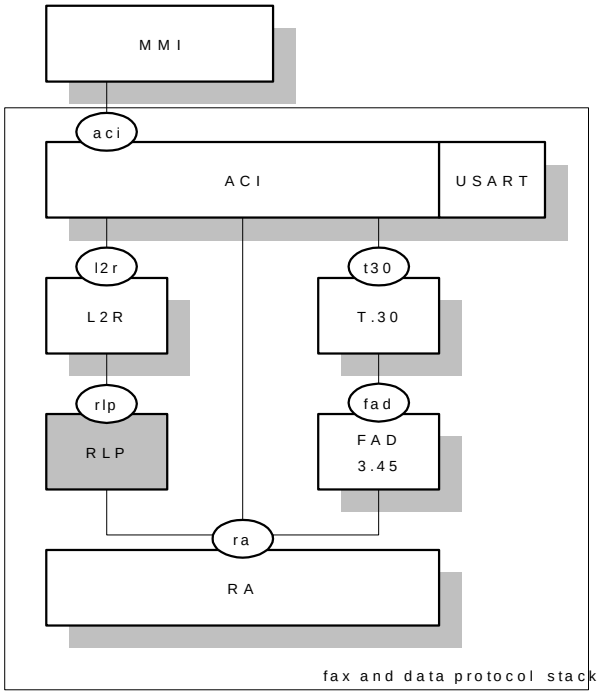

Figure 2-1: Architecture of the fax and data protocol stack

The information units passed via the SAPs are called primitives and consists of an operation code and several parameters. See the Users Guide for details.

The entities of the fax and data protocol stack are:

2.1 RA - Rate Adaptation

This entity performs an adaptation between an asynchronous or synchronous data stream with several bit rates on to the fixed bit rate used at the TCH. This is performed by the rate adaptation functions RA1' and RA0 described in GSM 04.21.

2.2 RLP - Radio Link Protocol

This entity provides a Layer 2 protocol for asynchronous reliable data transfer as specified in GSM 04.22. It includes error correction, sequence numbers and a mechanism for repeating corrupted and lost messages.

2.3 L2R - Layer 2 Relay Functionality

The L2R provides relay functions in order to adapt the character-oriented data received from the TE via USART to the bit-oriented RLP protocol.

2.4 FAD 03.45 - Fax Adaptation Protocol

The fax adaptation protocol, as specified in GSM 03.45, provides synchronisation with the BCS and MSG modems of the peer entity. It uses byte repetition in conjunction with a voting algorithm to handle corruption on the TCH data stream. The non-transparent fax protocol in accordance with GSM 03.46 is not part of this implementation.

The fax adapter enables T.30 to send BCS at 300 BPS and T.4 MSG in 2400, 4800, 7200 and 9600 BPS.

2.5 T.30 - Fax Protocol Entity

The protocol uses binary coded signals packed in HDLC frames to set up and release a connection in the message phase of the FAX transmission. This entity is specified in the ITU-T.30. The main tasks of this unit are:

- Building the HDLC frames with CRC.
- Performing bit stuffing/de-stuffing.
- Executing a sequence of 5 phases: 1.) set up, 2.) pre-message procedures, 3.) transmission/reception, 4.) post message procedures, 5.) waiting for call release.

2.6 ACI - AT Command Interpreter

The ACI is specified in GSM 07.07. It is responsible for call establishment via the GSM voice protocol stack and terminal adaptation for asynchronous transparent character-oriented data transmission. The ACI is able to receive AT commands and send the replies over the USART driver to a remote PC. This makes it possible to control the voice and data protocol stack from a remote application running on a PC. The ACI also provides a unique interface for an internal MMI in the MS.

2.7 USART - Universal Synchronous Asynchronous Receiver Transmitter Driver

The USART is a hardware component that facilitates a connection between the mobile station and terminal equipment (e.g. a PC). This interface uses some of the circuits described in V.24.

The data exchange provided by this unit is serial and asynchronous (synchronous communication is not in the scope of this document). A driver that uses interrupts to manage a circular buffer for the sending and receiving direction is necessary in order to use this component in the F&D. The driver has to be able to perform flow control.

3 Parameters

/* array declarations */
DECLARATION (A_PIN_1234)
DECLARATION(DA_654321)
DECLARATION(DA_98765)
DECLARATION(OA_987654)
DECLARATION(SA_12345)
DECLARATION (A_CLG_NUM)
DECLARATION (A_CLD_NUM)
DECLARATION (A_CLG_EMERG)
DECLARATION (A_CLD_EMERG)
DECLARATION (A_CLD_NUM_INT)
DECLARATION (A_FAC_AOC)
DECLARATION (A_FAC_BUILD_MPTY)
DECLARATION (A_FAC_SPLIT_MPTY)
DECLARATION (A_FAC_HOLD_MPTY)
DECLARATION (A_FAC_HOLD_MPTY_2)
DECLARATION (A_FAC_RETRIEVE_MPTY)
DECLARATION (A_FAC_ECT)
DECLARATION (A_FAC_CCBS)
DECLARATION (A_FAC_NTFY_CCBS)
DECLARATION (A_FAC_EMPTY)
DECLARATION (A_FAC_BUILD_MPTY_RES)
DECLARATION (A_FAC_SPLIT_MPTY_RES)
DECLARATION (A_FAC_HOLD_MPTY_RES)
DECLARATION (A_FAC_RETRIEVE_MPTY_RES)
DECLARATION (A_FAC_ECT_RES)
DECLARATION (A_FAC_CCBS_RES)
DECLARATION (A_FAC_CCBS_ERR)
DECLARATION (A_EF_PLMNSEL)
DECLARATION (A_EF_PLMNSEL_DEL)
DECLARATION (A_EF_PLMNSEL_DEL_CMP)
DECLARATION (A_EF_PLMNSEL_OVR)
DECLARATION (A_EF_PLMNSEL_NEW)
DECLARATION (A_EF_PLMNSEL_INS_CMP)
DECLARATION (A_EF_PLMNSEL_INS_1_CMP)
DECLARATION (A_EF_PLMNSEL_NEW_CMP)
DECLARATION (A_EF_PLMNSEL_CHG_CMP)
DECLARATION (A_ECC_FIELD)
DECLARATION (A_ACM_FIELD)
DECLARATION (A_ADN_REC)
DECLARATION (A_SMS_REC)
DECLARATION (A_RESP_DATA)
DECLARATION (A_FAC_CLCK_BAOC_IRGT_VF)
DECLARATION (A_FAC_CLCK_BOIC_IRGT_D)
DECLARATION (A_FAC_CLCK_BAOC_IRGT_D)
DECLARATION (A_FAC_CLIP_IRGT)
DECLARATION (A_FAC_CLIR_IRGT)
DECLARATION (A_SS_VER_2)
DECLARATION (A_FAC_CLIP_IRGT_RES_PROV)
DECLARATION (A_FAC_CLIR_IRGT_RES_PVTMAL)
DECLARATION(CLED_PARTY0)
DECLARATION(CLED_PARTY1)
DECLARATION(CLED_PARTY_SUB_NONE)
DECLARATION(PHN_NUM0)
DECLARATION(PHN_NUM1)
DECLARATION(EMPTY_PHN_NUM)

DECLARATION(CONNECTED_NUMBER0)
DECLARATION(CONNECTED_NUMBER1)
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DECLARATION (A_FAC_CLCK_BOICxHC_IRGT_VF)
DECLARATION (A_FAC_CLCK_BOICxHC_IRGT_D)
DECLARATION (A_FAC_CLCK_BAIC_IRGT_VF)
DECLARATION (A_FAC_CLCK_BAIC_IRGT_D)
DECLARATION (A_FAC_CLCK_BICR_IRGT_VF)
DECLARATION (A_FAC_CLCK_BICR_IRGT_D)
DECLARATION (A_FAC_CLCK_BAOC_ACT_VF)
DECLARATION (A_FAC_CLCK_BAOC_ACT_D)
DECLARATION (A_FAC_ENTER_PWD_REQ)
DECLARATION (A_FAC_ENTER_PWD_RES)
DECLARATION (A_FAC_ENTER_PWD_REQ_2)
DECLARATION (A_FAC_ENTER_PWD_RES_2)
DECLARATION (A_FAC_CLCK_BAOC_ACT_VF_RES)
DECLARATION (A_FAC_CLCK_BAOC_ACT_D_RES)
DECLARATION (A_FAC_CLCK_BOIC_ACT_VF)
DECLARATION (A_FAC_CLCK_BOIC_ACT_D)
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DECLARATION (A_FAC_CLCK_BOIC_ACT_D_RES)
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DECLARATION (IMSI_FIELD)
DECLARATION(SMS_MO_CONTENT)
DECLARATION(VP_A9801071234564)
DECLARATION(SM7_ABCDEFGHI)
DECLARATION(D_SM7_ABCDEFGHI)
DECLARATION(SM7_SPECIAL_SIGNS)
DECLARATION(D_SM7_SPECIAL_SIGNS)
DECLARATION(SM8_HEX_SPECIAL_SIGNS)
DECLARATION(D_SM8_HEX_SPECIAL_SIGNS)
DECLARATION(SA_ALT)
DECLARATION(CMD_DATA_EMPTY)
DECLARATION(D_CMD_DATA_EMPTY)
DECLARATION(NO_DA)
DECLARATION(WITH_CMD_DATA)

DECLARATION(F_ICC)
DECLARATION(F_MCC_NONE)
DECLARATION(F_MCC_000)
DECLARATION(F_MCC_123)
DECLARATION(F_MCC_262)
DECLARATION(F_MCC_555)
DECLARATION(F_FRB_PLMN_LST)
DECLARATION(F_RXL_PLMN_LST)
DECLARATION(F_SIM_SRV_4)
DECLARATION(F_SIM_SRV_4_12)
DECLARATION(F_SIM_SRV_4_30)
DECLARATION(F_SIM_SRV_4_12_14)
DECLARATION(F_SIM_SRV_4_12_14_30)
DECLARATION(F_MNC_NONE)
DECLARATION(F_MNC_00)

DECLARATION(F_MNC_01)
DECLARATION(F_MNC_02)
DECLARATION(F_MNC_03)
DECLARATION(F_MNC_45)
DECLARATION(F_MNC_55)
DECLARATION(F_CUR_PIN)
DECLARATION(F_NEW_PIN)
DECLARATION(SIM_STATUS_DEF)
DECLARATION(ME_STATUS_DEF)
DECLARATION(CBMIR_2E_2R)
DECLARATION(A_DEST_ADDR_030654321)
DECLARATION(A_SC_ADDR_017211963852)
DECLARATION(DA_030654321)
DECLARATION(SA_017211963852)
DECLARATION(CBMIR_1E_1V)
DECLARATION(SMSP_CORRECT_ALPHA_ID_R)
DECLARATION(SMSP_WO_SCA)
DECLARATION(SMSP_WO_DA_PID)
DECLARATION(SMSP_WO_DA_DCS)
DECLARATION(SMSP_WO_DA_VPREL)
DECLARATION(CBMIR_ON_U)
DECLARATION(CBMI_ON_U)
DECLARATION(CBMIR_DEF)
DECLARATION(CBMIR_2E_1R1)
DECLARATION(SMSP_CORRECT_R)
DECLARATION(CBMIR_ON_R)
DECLARATION(CBMI_ON_R)
DECLARATION(CBM_MIDS_ON_SIM)
DECLARATION(CBM_MID_SGL4)
DECLARATION(SMSP_CORRECT_ALPHA_ID_U)
DECLARATION(CBMI_SGL4_U)
DECLARATION(CBM_MID_SGL7)
DECLARATION(CBMI_SGL7_U)
DECLARATION(CBMI_SGL4_R)
DECLARATION(BC_PARA_SPEECH)
DECLARATION(BC_PARA_NO_SERVICE)
DECLARATION(EC_CODES)
DECLARATION(NO_PREF_LANG)
DECLARATION(IMSI_FIELD_DATA)
DECLARATION(SIM_SERV_ADN_BDN)
DECLARATION(SIM_SERV_FDN)
DECLARATION(PREF_PLMN_DATA)
DECLARATION(DATA_ADN34_1)
DECLARATION(DATA_ADN34_2)
DECLARATION(DATA_EMPTY_ADN34)
DECLARATION(DATA_BDN)
DECLARATION(DATA_EMPTY_BDN)
DECLARATION(DATA_SDN)
DECLARATION(CBMIR_1E_1R)
DECLARATION(CBMIR_2E_1R2)
DECLARATION(DATA_ADN38_1)
DECLARATION(DATA_ADN38_2)
DECLARATION(DATA_EMPTY_ADN38)
DECLARATION(DATA_ADN54_1)
DECLARATION(DATA_ADN54_2)
DECLARATION(DATA_EMPTY_ADN54)
DECLARATION(DATA_ADN94_1)
DECLARATION(DATA_ADN94_2)

```
DECLARATION(DATA_EMPTY_ADN94)
DECLARATION(DATA_FDN_1)
DECLARATION(DATA_FDN_2)
DECLARATION(DATA_EMPTY_FDN)
DECLARATION(CBM_MID_DEF)
DECLARATION(CBM_DCS_DEF)
DECLARATION(CBM_MID_1R_2V)
DECLARATION(CBM_MID_2R_2V)
DECLARATION(CBM_MID_5R_2V)
DECLARATION(CBM_DCS_ON)
DECLARATION (SMSP_EMPTY)
DECLARATION(SMSP_CORRECT_U)
DECLARATION(SMSP_CMPL_ALPHA_ID)
DECLARATION(SMSP_CMPL)
DECLARATION(CBM_MID_1V)
DECLARATION(CBM_MID_1R)
DECLARATION(CBM_MID_2R)
DECLARATION(CBM_MID_5R)
DECLARATION(CBMIR_5E_5R)
DECLARATION(CBMI_10E_2V2)
DECLARATION(CBMIR_10E_10R)
DECLARATION(CBMI_10E_2V3)
DECLARATION(CBMI_10E_2V4)
DECLARATION(CBMIR_11E_10R)
DECLARATION(CBMI_10E_2V1)
DECLARATION(CBMIR_11E_11R)
DECLARATION(CBM_MID_10R)
DECLARATION(CBMI_12E)
DECLARATION(CBM_MID_2V)
DECLARATION(CBM_MIDS_ON)
DECLARATION(S_PLMN_262_03)
DECLARATION(S_PLMN_FF_000_00)
DECLARATION(F_PLMN_LST)


/* structure declarations */

DECLARATION(PREF_PLMN)
DECLARATION (F_PLMN_NOT_PRESENT)
DECLARATION (S_PLMN_123_45)
DECLARATION (S_PLMN_262_01)
DECLARATION (S_PLMN_262_02)
DECLARATION (S_PLMN_555_55)
DECLARATION (S_CLG_PARTY)
DECLARATION (S_CLG_EMERG)
DECLARATION (S_CLD_PARTY)
DECLARATION (S_CLD_EMERG)
DECLARATION (S_CLD_PARTY_INT)
DECLARATION (S_CLG_PARTY_SUB)
DECLARATION (S_CLG_EMERG_SUB)
DECLARATION (S_CLD_PARTY_SUB)
DECLARATION (S_CLD_EMERG_SUB)
DECLARATION (S_BS_NOT_PRESENT)
DECLARATION (S_BS_VOICE)
DECLARATION (S_BS_EMERG)
DECLARATION (S_BS_FAX)
DECLARATION (S_BS_DAT_TRA_300)
DECLARATION (S_BS_DAT_TRA_300_V110)
```

```
DECLARATION (S_BS_DAT_TRA_1200)
DECLARATION (S_BS_DAT_TRA_1200_TM_NONE)
DECLARATION (S_BS_DAT_TRA_1200_75)
DECLARATION (S_BS_DAT_TRA_2400)
DECLARATION (S_BS_DAT_TRA_2400_V26)
DECLARATION (S_BS_DAT_TRA_2400_V120)
DECLARATION (S_BS_DAT_TRA_4800)
DECLARATION (S_BS_DAT_TRA_4800_V120)
DECLARATION (S_BS_FAX_14400)
DECLARATION (S_BS_DAT_TRA_9600)
DECLARATION (S_BS_DAT_TRA_9600_V34)
DECLARATION (S_BS_DAT_TRA_9600_V120)
DECLARATION (S_BS_DAT_9600_ASY_NTRA)
DECLARATION (S_BS_DEF)
DECLARATION (S_BS_DAT_14400_ASY_BTP)
DECLARATION (S_BS_DAT_TRA_14400_V34)
DECLARATION (S_BS_DAT_TRA_14400_V120)
DECLARATION (S_HDLC_DCS)
DECLARATION (S_HDLC_DIS)
DECLARATION (S_DCS)
DECLARATION (S_DIS)
DECLARATION (S_DTC)
DECLARATION (S_FAC_AOC)
DECLARATION (S_CHN_SPEECH)
DECLARATION (S_CHN_FULL_9600)

/* record numbers */
BYTE REC_NUM_00 0x00
BYTE REC_NUM_01 0x01
BYTE LDATA_ADN34 34
BYTE LDATA_SDN 34
BYTE LDATA_FDN 34
BYTE LDATA_ADN38 38
BYTE LDATA_ADN54 54
BYTE LDATA_ADN94 94
BYTE REC_NUM_02 0x02
BYTE REC_NUM_3 3
BYTE REC_NUM_5 5
BYTE REC_NUM_9 9
BYTE REC_NUM_25 25

/* data coding schemes */
BYTE DCS_1 0xF2

/* message types */
BYTE MSG_MO_1 0x01
BYTE MSG_TYPE_1D 0x1D
BYTE MSG_TYPE_01 0x01
BYTE MSG_TYPE_11 0x11
BYTE MSG_TYPE_19 0x19
BYTE MSG_TYPE_SUBMIT_DEF 0x1D
BYTE MSG_TYPE_SUBMIT_REPLY 0x9D
BYTE MSG_TYPE_04 0x04

/* timezones */
BYTE VP_REL_23 0x23

/* sim record */
```

```
SHORT        SIM_RECORD_0      0
SHORT        SIM_RECORD_1      1
SHORT        SIM_RECORD_2      2
SHORT        SIM_RECORD_3      3
SHORT        SIM_RECORD_4      4
SHORT        SIM_RECORD_5      5

/* message types */
BYTE MSG_TYPE_02 0x02
BYTE MSG_MO_11 0x11

/* message references */
BYTE MSG_REF_02 0x02
BYTE MSG_REF_01 0x01
BYTE MSG_REF_AA 0xAA
SHORT   MSG_REF_1     1
SHORT   MSG_REF_2     2
SHORT   MSG_REF_3     3

/* data coding schemes */
BYTE DCS_2 0xF4

/* short messages length */
BYTE L_SM7_ABCDEFGHI 0x09
BYTE L_SM7_SPECIAL_SIGNS 0x15
BYTE L_SM8_HEX_SPECIAL_SIGNS 0x16

/* message states */
BYTE STAT_REC_UNREAD 0x03
BYTE STAT_STO_UNSENT 0x07
BYTE SIM_MT_STATUS 3
BYTE SIM_MO_STATUS_SENT 5

/* SMSP data length */
BYTE L_SMSP_MIN 28
BYTE L_SMSP_ALPHA_ID 35
/* Number definitions */
BYTE    DUMMY  0
BYTE    MAX_SIM_DEF    10
BYTE    USED_SIM_DEF   0
BYTE    MAX_ME_DEF     10
BYTE NOT_SPEC 255
BYTE MAX_DATAS 0xFF
BYTE    USED_ME_DEF    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_6 6
BYTE NUM_7 7
BYTE NUM_8 8
BYTE NUM_9 9
BYTE NUM_10 10
BYTE NUM_12 12
BYTE NUM_20 20
```

```
BYTE NUM_27 27
BYTE NUM_30 30
BYTE NUM_50 90
BYTE NUM_82 82
BYTE NUM_40 0x40
BYTE NUM_90 0x90
BYTE NUM_92 0x92
BYTE NUM_98 0x98
BYTE NUM_6F 0x6F
BYTE NUM_255 255
SHORT NUM_9600 9600
SHORT NUM_4800 4800
BYTE LDATE_EMPTY 255
BYTE LDATA_BDN 34
SHORT SS_ERR_FACILITY_REJECT 0x61D

/* Key definitions */

BYTE USED_0 0
BYTE KEY_0 48
BYTE KEY_1 49
BYTE KEY_2 50
BYTE KEY_3 51
BYTE KEY_4 52
BYTE KEY_5 53
BYTE KEY_6 54
BYTE KEY_7 55
BYTE KEY_8 56
BYTE KEY_9 57
BYTE KEY_A 65
BYTE KEY_B 66
BYTE KEY_C 67
BYTE KEY_D 68
BYTE KEY_STAR 42
BYTE KEY_HASH 35
BYTE TOTAL_100 100
BYTE TOTAL_255 255
/* simstatus */
BYTE SIM_MO_STATUS 7
BYTE SIM_MT_STATUS_READ 1
/* command data length */
BYTE L_CMD_DATA_EMPTY 0x00

/* different sizes for EF(CBMIR) */
BYTE L_CBMIR_1 4
BYTE L_CBMIR_2 8
BYTE L_CBMIR_5 20
BYTE L_CBMIR_10 40
BYTE L_CBMIR_11 44

/* different sizes for EF(CBMIR) */
BYTE L_CBMI_1 2
BYTE L_CBMI_2 4
BYTE L_CBMI_5 10
BYTE L_CBMI_10 20
BYTE L_CBMI_11 22
BYTE L_CBMI_12 24
```

```
/*
Command:        %ACI
                set ACI mode
*/
STRING(C_MODE, "%ACI=1" )
BYTE LC_MODE 6

/*
Message:        OK
                successful operation
*/
STRING(M_OK, "OK" )
BYTE LM_OK 2

STRING(M_OK_nv, "0" )
BYTE LM_OK_nv 1

/*
Message:        NO CARRIER
                carrier lost
*/
STRING(M_NO_CARRIER, "NO CARRIER" )
BYTE LM_NO_CARRIER 10

STRING(M_NO_ANSWER, "NO ANSWER" )
BYTE LM_NO_ANSWER 9

/*
Message:        CONNECT
                successful data call connection
*/
STRING(M_CONNECT_9600, "CONNECT 9600" )
BYTE LM_CONNECT_9600 12
STRING(M_CONNECT, "CONNECT" )
BYTE LM_CONNECT 7

STRING(M_CONNECT_9600_nv, "15" )
BYTE LM_CONNECT_9600_nv 2

STRING(M_CLCC_state_active, "+CLCC: 1,1,0,0,0,\"03039094223\",129" )
BYTE LM_CLCC_state_active 34


STRING(M_CLCC_call_incoming, "+CLCC: 1,1,4,0,0,\"03039094223\",129" )
BYTE LM_CLCC_call_incoming 34
```

```
STRING(M_CLCC_call_waiting, "+CLCC: 2,1,5,0,0,\"03039094223\",129" )
BYTE LM_CLCC_call_waiting 34

/*
Message:        ERROR
                error result code
*/
STRING(M_ERROR, "ERROR" )
BYTE LM_ERROR 5
/*
Message:        BUSY
                busy result code
*/
STRING(M_BUSY, "BUSY" )
BYTE LM_BUSY 4
/*

Message:        +CME
                error result code
*/
STRING(M_ERR_PIN_REQ, "+CME ERROR: SIM PIN required" )
BYTE LM_ERR_PIN_REQ 28
STRING(M_ERR_WRONG_PWD, "+CME ERROR: incorrect password" )
BYTE LM_ERR_WRONG_PWD 30
STRING(M_ERR_SIM_FATAL, "+CME ERROR: SIM not inserted" )
BYTE LM_ERR_SIM_FATAL 28
STRING(M_ERR_SIM_INV, "+CME ERROR: SIM wrong" )
BYTE LM_ERR_SIM_INV 21
STRING(M_ERR_SIM_BLCK, "+CME ERROR: SIM PUK required" )
BYTE LM_ERR_SIM_BLCK 28
STRING(M_ERR_SIM_FAIL, "+CME ERROR: SIM failure" )
BYTE LM_ERR_SIM_FAIL 23
STRING(M_ERR_NO_NTW_SRV, "+CME ERROR: network not allowed - emergency calls only" )
BYTE LM_ERR_NO_NTW_SRV 54
STRING(M_ERR_OPERATION, "+CME ERROR: operation not allowed" )
BYTE LM_ERR_OPERATION 33

/*
Command:        S
                set S register
*/
STRING(C_S0_3, "ATS0=3" )
BYTE LC_S0_3 6
```

```
/*
Command:        +CFUN
                set phone functionality
*/
STRING(C_PLUS_CFUN_FULL, "AT+CFUN=1 " )
BYTE LC_PLUS_CFUN_FULL 9
/*
Command:        +CLAC
                List all available AT-Commands
*/

STRING(C_PLUS_CLAC, "AT+CLAC " )
BYTE LC_PLUS_CLAC 7

STRING(C_PLUS_CLAC_T, "AT+CLAC=?" )
BYTE LC_PLUS_CLAC_T 9

/*--- "+CSTA=?" (CSTA_T) ----*/
// Commqand:
STRING(C_CSTA_T, "AT+CSTA=?" )
BYTE LC_CSTA_T 10
// Message:
STRING(M_CSTA_T, "+CSTA : 129,145" )
BYTE LM_CSTA_T 14

/*--- "+CSTA?" (CSTA_Q) ----*/
// Commqand:
STRING(C_CSTA_Q, "AT+CSTA?" )
BYTE LC_CSTA_Q 9
// Message:
STRING(M_CSTA_Q0, "+CSTA : 145" )
STRING(M_CSTA_Q1, "+CSTA : 129" )
BYTE LM_CSTA_Q 10

/*--- "+CSTA=*" (CSTA_S) ----*/
// Commqand:
STRING(C_CSTA_S0, "AT+CSTA=145" )
STRING(C_CSTA_S1, "AT+CSTA=129" )
STRING(C_CSTA_S9, "AT+CSTA=255" )
BYTE LC_CSTA_S 11

/*--- "+CMOD=?" (CMOD_T) ---*/
// Commqand:
STRING(C_CMOD_T, "AT+CMOD=?" )
BYTE LC_CMOD_T 9
// Message:
STRING(M_CMOD_T, "+CMOD: (0-3)" )
BYTE LM_CMOD_T 12

/*--- "+CMOD=*" (CMOD_S) ---*/
// Commqand:
STRING(C_CMOD_S0, "AT+CMOD=0" )
STRING(C_CMOD_S1, "AT+CMOD=1" )
```

```
STRING(C_CMOD_S2, "AT+CMOD=2" )
STRING(C_CMOD_S3, "AT+CMOD=3" )
STRING(C_CMOD_S9, "AT+CMOD=4" )
BYTE LC_CMOD_S 9
```

/*--- "+CMOD?" (CMOD_Q) ----*/

```
//    Commqand:
STRING(C_CMOD_Q, "AT+CMOD?" )
BYTE LC_CMOD_Q 8
//    Message:
STRING(M_CMOD_Q0, "+CMOD: 0" )
STRING(M_CMOD_Q1, "+CMOD: 1" )
STRING(M_CMOD_Q2, "+CMOD: 2" )
STRING(M_CMOD_Q3, "+CMOD: 3" )
BYTE LM_CMOD_Q 8
```

/*---"Dail"—(D) */

```
//    Command:
STRING(C_D0, "ATD01234567;" )
STRING(C_D1, "ATD+4901234567;" )
BYTE LC_D0 12
BYTE LC_D1 15

//    Message:
STRING(M_D0, "+COLP: \"01234567\",129,,128" )
STRING(M_D1, "+COLP: \"4901234567\",145,,128" )
BYTE LM_D0 26
BYTE LM_D1 28
```

/*--- "+CHUP" (CHUP_S) —-*/

```
//    Commqand:
STRING(C_CHUP_S, "AT+CHUP" )
BYTE LC_CHUP_S 7
STRING(C_CHLD_S0, "AT+CHLD=" )
STRING(C_CHLD_S1, "AT+CHLD=1" )
BYTE LC_CHLD_S0 8
BYTE LC_CHLD_S1 9
```

/*--- "+CHLD=?" (CHLD_T) ----*/

```
//    Commqand:
STRING(C_CHLD_T, "AT+CHLD=?" )
BYTE LC_CHLD_T 9
//    Message:
STRING(M_CHLD_T, "+CHLD: (0,1,1x,2,2x,3,4)" )
BYTE LM_CHLD_T 24
```

/*--- "+CHLD?" (CHLD_Q) ----*/

```
//    Commqand:
STRING(C_CHLD_Q, "AT+CHLD?" )
BYTE LC_CHLD_Q 8

/*
Command:        +CEER
                extended error report
*/

STRING(C_PLUS_CEER, "AT+CEER" )

BYTE LC_PLUS_CEER 7
```

```
/*
Command:        +CMEE
                extended error report mode
*/

STRING(C_PLUS_CMEE_VERB, "AT+CMEE=2" )

BYTE LC_PLUS_CMEE_VERB 9

/*---"CME ERROR"—(verbose error result code) */
//  Message:
STRING(M_CME_ERR_INV_OPP, "+CME ERROR: operation not allowed" )
BYTE LM_CME_ERR_INV_OPP 33

STRING(M_CME_ERR_UNKN, "+CME ERROR: unknown" )
BYTE LM_CME_ERR_UNKN 19
STRING(M_CMS_ERR_UNKN, "+CMS ERROR: unknown error" )
BYTE LM_CMS_ERR_UNKN 25
STRING(M_CME_ERR_PIN2_REQ, "+CME ERROR: SIM PIN2 required" )
BYTE LM_CME_ERR_PIN2_REQ 29
STRING(M_CMS_ERR_INV_OPP,"+CMS ERROR: operation not allowed" )
BYTE LM_CMS_ERR_INV_OPP 33

/*
Command:        &F
                reset to defaults
*/

STRING(C_AND_F, "AT&F0" )

BYTE LC_AND_F 5

/*
Command:        Z
                reset to defaults
*/

STRING(C_Z, "ATZ " )
BYTE LC_Z 3

/*
Command:        +CPAS
                phone activity status
*/

STRING(C_PLUS_CPAS, "AT+CPAS " )
BYTE LC_PLUS_CPAS 7

STRING(C_PLUS_CPAS_test, "AT+CPAS=?" )
BYTE LC_PLUS_CPAS_test 9

/*
Message:        +CPAS
                phone activity status
*/

STRING(M_PLUS_CPAS_test, "+CPAS: (0-5)" )
BYTE LM_PLUS_CPAS_test 12
```

```
STRING(M_CPAS_STATE4, "+CPAS: 4" )
BYTE LM_CPAS_STATE4 8

/*
Command:        +CPIN
                enter PIN
*/
STRING(C_PLUS_CPIN_1234, "AT+CPIN=\"1234\"" )
BYTE LC_PLUS_CPIN_1234 14
STRING(C_PLUS_CPIN_QUERY, "AT+CPIN?")
BYTE LC_PLUS_CPIN_QUERY 8

/*
Message:        +CPIN
                enter PIN
*/
STRING(M_PLUS_CPIN_PIN1, "+CPIN: SIM PIN" )
BYTE LM_PLUS_CPIN_PIN1 14

/*
Command:        +CMOD
                mode selection
*/
STRING(C_PLUS_CMOD_FAX, "AT+CMOD=1" )
BYTE LC_PLUS_CMOD_FAX 9
STRING(C_PLUS_CMOD_ALT_DAT, "AT+CMOD=2" )
BYTE LC_PLUS_CMOD_ALT_DAT 9

/*
Command:        +CCWA
                Call waiting indication
*/
STRING(C_PLUS_CCWA_ON, "AT+CCWA=1" )
BYTE LC_PLUS_CCWA_ON 9

/*
Command:        D
                Dial a number
*/
STRING(C_D_DAT, "ATDT(030)39094444" )
BYTE LC_D_DAT 17
STRING(C_D_VOICE, "ATD03039094444;" )
BYTE LC_D_VOICE 15
STRING(C_D_VOICE_INT_A, "ATD004903039094444;" )
BYTE LC_D_VOICE_INT_A 19
STRING(C_D_VOICE_INT_B, "ATD+4903039094444;" )
BYTE LC_D_VOICE_INT_B 18
STRING(C_D_KSD_30, "ATD**00#" )
BYTE LC_D_KSD_30 8

STRING(C_D_EMERG, "ATD112;" )
BYTE LC_D_EMERG 7
STRING(C_D_MDF, "ATD" )
BYTE LC_D_MDF 3

/*
```

```
Command:        H
                Hang up call
*/
STRING(C_H, "ATH0" )
BYTE LC_H 4

/*
Command:        +CHUP
                Hang up call
*/
STRING(C_PLUS_CHUP, "AT+CHUP" )
BYTE LC_PLUS_CHUP 7

/*
Command:        A
                accept call
*/
STRING(C_A, "ATA" )
BYTE LC_A 3

/*
Command:        +COPS
                operator selection
*/
STRING(C_PLUS_COPS_DREG, "AT+COPS=2" )
BYTE LC_PLUS_COPS_DREG 9
STRING(C_PLUS_COPS_REG, "AT+COPS=0,0" )
BYTE LC_PLUS_COPS_REG 11

STRING(C_PLUS_COPS_numREG, "AT+COPS=0,2" )
BYTE LC_PLUS_COPS_numREG 11

STRING(C_PLUS_COPS_QUE, "AT+COPS?" )
BYTE LC_PLUS_COPS_QUE 8
STRING(C_PLUS_COPS_TST, "AT+COPS=?" )
BYTE LC_PLUS_COPS_TST 9
STRING(C_PLUS_COPS_MAN_LNG, "AT+COPS=1,0,\"D-ZWEI PRIVAT\"" )

BYTE LC_PLUS_COPS_MAN_LNG 27
STRING(C_PLUS_COPS_MAN_SHRT, "AT+COPS=1,1,\"D-ZWEI\"" )

BYTE LC_PLUS_COPS_MAN_SHRT 20
STRING(C_PLUS_COPS_MAN_NUM, "AT+COPS=1,2,\"26202\"" )

BYTE LC_PLUS_COPS_MAN_NUM 19

/*
Command:        +CLCK
                facility lock
*/
STRING(C_PLUS_CLCK_FD_ENA, "AT+CLCK=\"FD\",1,\"1234\"" )
BYTE LC_PLUS_CLCK_FD_ENA 22
STRING(C_PLUS_CLCK_FD_DIS, "AT+CLCK=\"FD\",0,\"1234\"" )

BYTE LC_PLUS_CLCK_FD_DIS 22

STRING(C_PLUS_CLCK_FD_NOPIN, "AT+CLCK=\"FD\",1," )
BYTE LC_PLUS_CLCK_FD_NOPIN 18
```

```
STRING(C_PLUS_CLCK_FD_QUERY, "AT+CLCK=\"FD\",2" )

BYTE LC_PLUS_CLCK_FD_QUERY 14

STRING(C_PLUS_CLCK_SC_QUERY, "AT+CLCK=\"SC\",2" )

BYTE LC_PLUS_CLCK_SC_QUERY 14

STRING(C_PLUS_CLCK_AO_QUERY, "AT+CLCK=\"AO\",2" )

BYTE LC_PLUS_CLCK_AO_QUERY 14

STRING(C_PLUS_CLCK_BOIC_QUERY, "AT+CLCK=\"OI\",2" )
BYTE LC_PLUS_CLCK_BOIC_QUERY 14
STRING(C_PLUS_CLCK_BOICxHC_QUERY, "AT+CLCK=\"OX\",2" )
BYTE LC_PLUS_CLCK_BOICxHC_QUERY 14
STRING(C_PLUS_CLCK_BAIC_QUERY, "AT+CLCK=\"AI\",2" )
BYTE LC_PLUS_CLCK_BAIC_QUERY 14
STRING(C_PLUS_CLCK_BICR_QUERY, "AT+CLCK=\"IR\",2" )
BYTE LC_PLUS_CLCK_BICR_QUERY 14
STRING(C_PLUS_CLCK_BAOC_ACT, "AT+CLCK=\"AO\",1,\"1234\",7" )
BYTE LC_PLUS_CLCK_BAOC_ACT 23
STRING(C_PLUS_CLCK_BOIC_ACT, "AT+CLCK=\"OI\",1,\"1234\",7" )
BYTE LC_PLUS_CLCK_BOIC_ACT 23
STRING(C_PLUS_CLCK_BOICxHC_ACT, "AT+CLCK=\"OX\",1,\"1234\",7" )
BYTE LC_PLUS_CLCK_BOICxHC_ACT 23
STRING(C_PLUS_CLCK_BAIC_ACT, "AT+CLCK=\"AI\",1,\"1234\",7" )
BYTE LC_PLUS_CLCK_BAIC_ACT 23
STRING(C_PLUS_CLCK_BICR_ACT, "AT+CLCK=\"IR\",1,\"1234\",7" )
BYTE LC_PLUS_CLCK_BICR_ACT 23
STRING(C_PLUS_CLCK_ALLCB_DEACT, "AT+CLCK=\"AB\",0,\"1234\",7" )
BYTE LC_PLUS_CLCK_ALLCB_DEACT 23
STRING(C_PLUS_CLCK_ALLOUT_DEACT, "AT+CLCK=\"AG\",0,\"1234\",7" )
BYTE LC_PLUS_CLCK_ALLOUT_DEACT 23
STRING(C_PLUS_CLCK_ALLIN_DEACT, "AT+CLCK=\"AC\",0,\"1234\",7" )
BYTE LC_PLUS_CLCK_ALLIN_DEACT 23
STRING(C_PLUS_CLCK_BAOC_DEACT, "AT+CLCK=\"AO\",0,\"1234\",7" )
BYTE LC_PLUS_CLCK_BAOC_DEACT 23
STRING(C_PLUS_CLCK_BOIC_DEACT, "AT+CLCK=\"OI\",0,\"1234\",7" )
BYTE LC_PLUS_CLCK_BOIC_DEACT 23
STRING(C_PLUS_CLCK_BOICxHC_DEACT, "AT+CLCK=\"OX\",0,\"1234\",7" )
BYTE LC_PLUS_CLCK_BOICxHC_DEACT 23
STRING(C_PLUS_CLCK_BAIC_DEACT, "AT+CLCK=\"AI\",0,\"1234\",7" )
BYTE LC_PLUS_CLCK_BAIC_DEACT 23
STRING(C_PLUS_CLCK_BICR_DEACT, "AT+CLCK=\"IR\",0,\"1234\",7" )
BYTE LC_PLUS_CLCK_BICR_DEACT 23
STRING(C_PLUS_CLCK_PIN1_ACT, "AT+CLCK=\"SC\",1,\"1234\"" )
BYTE LC_PLUS_CLCK_PIN1_ACT 21
STRING(C_PLUS_CLCK_PIN1_DEACT, "AT+CLCK=\"SC\",0,\"1234\"" )
BYTE LC_PLUS_CLCK_PIN1_DEACT 21

/*
Message:        +CLCK
                faclility lock
*/
STRING(M_PLUS_CLCK_FD_ENA, "+CLCK: 1" )
BYTE LM_PLUS_CLCK_FD_ENA 8
STRING(M_PLUS_CLCK_FD_DIS, "+CLCK: 0" )
```

```
BYTE LM_PLUS_CLCK_FD_DIS 8

/*
Command:        +CPWD
                Change Password
*/
STRING(C_PLUS_CPWD_CBALL, "AT+CPWD=\"AB\",\"1234\",\"9876\"" )
BYTE LC_PLUS_CPWD_CBALL 26
STRING(C_PLUS_CPWD_PIN1, "AT+CPWD=\"SC\",\"1234\",\"9876\"" )
BYTE LC_PLUS_CPWD_PIN1 26
STRING(C_PLUS_CPWD_PIN2, "AT+CPWD=\"P2\",\"1234\",\"9876\"" )
BYTE LC_PLUS_CPWD_PIN2 26

/*
Command:        +CCFC
                Call Forwarding
*/
STRING(C_PLUS_CCFC_CFU_QUERY, "AT+CCFC=0,2" )
BYTE LC_PLUS_CCFC_CFU_QUERY 11
STRING(C_PLUS_CCFC_CFB_QUERY, "AT+CCFC=1,2" )
BYTE LC_PLUS_CCFC_CFB_QUERY 11
STRING(C_PLUS_CCFC_CFNRY_QUERY, "AT+CCFC=2,2" )
BYTE LC_PLUS_CCFC_CFNRY_QUERY 11
STRING(C_PLUS_CCFC_CFNRC_QUERY, "AT+CCFC=3,2" )
BYTE LC_PLUS_CCFC_CFNRC_QUERY 11
STRING(C_PLUS_CCFC_ALLCF_QUERY, "AT+CCFC=4,2" )
BYTE LC_PLUS_CCFC_ALLCF_QUERY 11
STRING(C_PLUS_CCFC_ALLCFC_QUERY, "AT+CCFC=5,2" )
BYTE LC_PLUS_CCFC_ALLCFC_QUERY 11
STRING(C_PLUS_CCFC_CFU_REG, "AT+CCFC=0,3,\"03039094223\",,7,\"123456\" " )
BYTE LC_PLUS_CCFC_CFU_REG 38
STRING(C_PLUS_CCFC_CFB_REG, "AT+CCFC=1,3,\"03039094223\",,7,\"123456\" " )
BYTE LC_PLUS_CCFC_CFB_REG 38
STRING(C_PLUS_CCFC_CFNRY_REG, "AT+CCFC=2,3,\"03039094223\",,7,\"123456\",,16 " )
BYTE LC_PLUS_CCFC_CFNRY_REG 42
STRING(C_PLUS_CCFC_CFNRC_REG, "AT+CCFC=3,3,\"03039094223\",,7,\"123456\" " )
BYTE LC_PLUS_CCFC_CFNRC_REG 38
STRING(C_PLUS_CCFC_ALLCF_REG, "AT+CCFC=4,3,\"03039094223\",,7,\"123456\" " )
BYTE LC_PLUS_CCFC_ALLCF_REG 38
STRING(C_PLUS_CCFC_ALLCFC_REG, "AT+CCFC=5,3,\"03039094223\",,7,\"123456\" " )
BYTE LC_PLUS_CCFC_ALLCFC_REG 38
STRING(C_PLUS_CCFC_CFU_ERS, "AT+CCFC=0,4" )
BYTE LC_PLUS_CCFC_CFU_ERS 11
STRING(C_PLUS_CCFC_CFB_ERS, "AT+CCFC=1,4" )
BYTE LC_PLUS_CCFC_CFB_ERS 11
STRING(C_PLUS_CCFC_CFNRY_ERS, "AT+CCFC=2,4" )
BYTE LC_PLUS_CCFC_CFNRY_ERS 11
STRING(C_PLUS_CCFC_CFNRC_ERS, "AT+CCFC=3,4" )
BYTE LC_PLUS_CCFC_CFNRC_ERS 11
STRING(C_PLUS_CCFC_ALLCF_ERS, "AT+CCFC=4,4" )
BYTE LC_PLUS_CCFC_ALLCF_ERS 11
STRING(C_PLUS_CCFC_ALLCFC_ERS, "AT+CCFC=5,4" )
BYTE LC_PLUS_CCFC_ALLCFC_ERS 11
STRING(C_PLUS_CCFC_CFU_ACT, "AT+CCFC=0,1" )
BYTE LC_PLUS_CCFC_CFU_ACT 11
STRING(C_PLUS_CCFC_CFB_ACT, "AT+CCFC=1,1" )
BYTE LC_PLUS_CCFC_CFB_ACT 11
```

```
STRING(C_PLUS_CCFC_CFNRY_ACT, "AT+CCFC=2,1" )
BYTE LC_PLUS_CCFC_CFNRY_ACT 11
STRING(C_PLUS_CCFC_CFNRC_ACT, "AT+CCFC=3,1" )
BYTE LC_PLUS_CCFC_CFNRC_ACT 11
STRING(C_PLUS_CCFC_ALLCF_ACT, "AT+CCFC=4,1" )
BYTE LC_PLUS_CCFC_ALLCF_ACT 11
STRING(C_PLUS_CCFC_ALLCFC_ACT, "AT+CCFC=5,1" )
BYTE LC_PLUS_CCFC_ALLCFC_ACT 11
STRING(C_PLUS_CCFC_CFU_DEACT, "AT+CCFC=0,0" )
BYTE LC_PLUS_CCFC_CFU_DEACT 11
STRING(C_PLUS_CCFC_CFB_DEACT, "AT+CCFC=1,0" )
BYTE LC_PLUS_CCFC_CFB_DEACT 11
STRING(C_PLUS_CCFC_CFNRY_DEACT, "AT+CCFC=2,0" )
BYTE LC_PLUS_CCFC_CFNRY_DEACT 11
STRING(C_PLUS_CCFC_CFNRC_DEACT, "AT+CCFC=3,0" )
BYTE LC_PLUS_CCFC_CFNRC_DEACT 11
STRING(C_PLUS_CCFC_ALLCF_DEACT, "AT+CCFC=4,0" )
BYTE LC_PLUS_CCFC_ALLCF_DEACT 11
STRING(C_PLUS_CCFC_ALLCFC_DEACT, "AT+CCFC=5,0" )
BYTE LC_PLUS_CCFC_ALLCFC_DEACT 11

/*
message:        +CCFC
                call forwarding presentation
*/
STRING(M_PLUS_CCFC_CFU_V, "\136+CCFC: 0,1" )
BYTE LM_PLUS_CCFC_CFU_V 10
STRING(M_PLUS_CCFC_CFU_F, "\136+CCFC: 0,4" )
BYTE LM_PLUS_CCFC_CFU_F 10
STRING(M_PLUS_CCFC_CFU_D, "\136+CCFC: 0,2" )
BYTE LM_PLUS_CCFC_CFU_D 10
STRING(M_PLUS_CCFC_CFB_V, "\136+CCFC: 1,1,\"493039094444\",145" )
BYTE LM_PLUS_CCFC_CFB_V 29
STRING(M_PLUS_CCFC_CFB_F, "\136+CCFC: 0,4" )
BYTE LM_PLUS_CCFC_CFB_F 10
STRING(M_PLUS_CCFC_CFB_D, "\136+CCFC: 1,2,\"03039094223\",129" )
BYTE LM_PLUS_CCFC_CFB_D 28
STRING(M_PLUS_CCFC_CFNRY_V, "\136+CCFC: 1,1,\"493039094444\",145,,,10" )
BYTE LM_PLUS_CCFC_CFNRY_V 34
STRING(M_PLUS_CCFC_CFNRY_F, "\136+CCFC: 1,4" )
BYTE LM_PLUS_CCFC_CFNRY_F 10
STRING(M_PLUS_CCFC_CFNRY_D, "\136+CCFC: 0,7" )
BYTE LM_PLUS_CCFC_CFNRY_D 10
STRING(M_PLUS_CCFC_CFNRC_VF, "\136+CCFC: 0,7" )
BYTE LM_PLUS_CCFC_CFNRC_VF 10
STRING(M_PLUS_CCFC_CFNRC_D, "\136+CCFC: 0,7" )
BYTE LM_PLUS_CCFC_CFNRC_D 10

/*
Command:        +CCWA
                Call waiting indication
*/
STRING(C_PLUS_CCWA_QUERY, "AT+CCWA=,2 " )
BYTE LC_PLUS_CCWA_QUERY 10
STRING(C_PLUS_CCWA_ACT_V, "AT+CCWA=,1,1 " )
BYTE LC_PLUS_CCWA_ACT_V 12
STRING(C_PLUS_CCWA_ACT_D, "AT+CCWA=,1,2 " )
BYTE LC_PLUS_CCWA_ACT_D 12
```

```
STRING(C_PLUS_CCWA_ACT_F, "AT+CCWA=,1,4 " )
BYTE LC_PLUS_CCWA_ACT_D 12

/*
message:        +CCWA
                call waiting presentation
*/
STRING(M_PLUS_CCWA, "\136+CCWA: \"03039094223\",129,1" )
BYTE LM_PLUS_CCWA 26
STRING(M_PLUS_CCWA_V, "\136+CCWA: 1,1" )
BYTE LM_PLUS_CCWA_V 10
STRING(M_PLUS_CCWA_D, "\136+CCWA: 1,2" )
BYTE LM_PLUS_CCWA_D 10
STRING(M_PLUS_CCWA_F, "\136+CCWA: 1,4" )
BYTE LM_PLUS_CCWA_F 10
STRING(M_PLUS_CCWA_VF, "\136+CCWA: 1,5" )
BYTE LM_PLUS_CCWA_VF 10

/*
Command:        +CUSD
                Unstructured Supplementary Service Data
*/
STRING(C_PLUS_CUSD_ON, "AT+CUSD=1" )
BYTE LC_PLUS_CUSD_ON 9
STRING(C_PLUS_CUSD_SEND, "AT+CUSD=1,\"ABCDEFGHIJKLMNOPQRSTUVWXYZ@$\",0" )
BYTE LC_PLUS_CUSD_SEND 42

/*
message:        +CUSD
                Unstructured Supplementary Service Data
*/
STRING(M_PLUS_CUSD_NTFY, "\136+CUSD: 0,\"abcdefghijklmnopqrstuvwxyz\",165" )
BYTE LM_PLUS_CUSD_NTFY 41
STRING(M_PLUS_CUSD_PROC_RES, "\136+CUSD: 0,\"abcdefghijklmnopqrstuvwxyz\",165" )
BYTE LM_PLUS_CUSD_PROC_RES 41
STRING(M_PLUS_CUSD_DAT_RES, "\136+CUSD: 0,\"abcdefghijklmnopqrstuvwxyz\",0" )
BYTE LM_PLUS_CUSD_DAT_RES 39
STRING(M_PLUS_CUSD_REQ, "\136+CUSD: 1,\"abcdefghijklmnopqrstuvwxyz\",165" )
BYTE LM_PLUS_CUSD_REQ 41

/*
Command:        +CSSN
                Supplementary Service Notifications
*/
STRING(C_PLUS_CSSN_ON, "AT+CSSN=1,1 " )
BYTE LC_PLUS_CSSN_ON 11
STRING(C_PLUS_CSSN_QUERY, "AT+CSSN? " )
BYTE LC_PLUS_CSSN_QUERY 8

/*
message:        +CSSN
                Supplementary Service Notifications
*/
STRING(M_PLUS_CSSI_CFU, "\136+CSSI: 0")
BYTE LM_PLUS_CSSI_CFU 8
STRING(M_PLUS_CSSI_CW, "\136+CSSI: 3")
BYTE LM_PLUS_CSSI_CW 8
```

```
STRING(M_PLUS_CSSI_CUG, "\136+CSSI: 4,5")
BYTE LM_PLUS_CSSI_CUG 10
STRING(M_PLUS_CSSI_CLIR, "\136+CSSI: 7")
BYTE LM_PLUS_CSSI_CLIR 8
STRING(M_PLUS_CSSU_HLD, "\136+CSSU: 2")
BYTE LM_PLUS_CSSU_HLD 8
STRING(M_PLUS_CSSU_MPTY, "\136+CSSU: 4")
BYTE LM_PLUS_CSSU_MPTY 8
STRING(M_PLUS_CSSU_ECT_ALRT, "\136+CSSU: 7,,\"03039094223\",129,\"123456\",128")
BYTE LM_PLUS_CSSU_ECT_ALRT 40
STRING(M_PLUS_CSSU_CHK, "\136+CSSU: 6" )
BYTE LM_PLUS_CSSU_CHK 8
```

/*--- "+CBST=?" (CBST_T) ----*/

```
//    Commqand:
STRING(C_CBST_T, "AT+CBST=?" )
BYTE LC_CBST_T 10
//    Message:
STRING(M_CBST_T, "+CBST: (0-7,12,14,34,36,38,39,43,65,66,68,70,71,75),(0),(0-3)" )
BYTE LM_CBST_T 61
```

/*--- "+CBST?" (CBST_Q) ----*/

```
//    Commqand:
STRING(C_CBST_Q, "AT+CBST?" )
BYTE LC_CBST_Q 9
//    Message:
STRING(M_CBST_Q00, "+CBST: 0,0,1" )  //autobauding only in non-transarent mode
STRING(M_CBST_Q01, "+CBST: 1,0,0" )
STRING(M_CBST_Q02, "+CBST: 1,0,1" )
STRING(M_CBST_Q03, "+CBST: 2,0,0" )
STRING(M_CBST_Q04, "+CBST: 2,0,1" )
STRING(M_CBST_Q05, "+CBST: 3,0,0" )
STRING(M_CBST_Q06, "+CBST: 3,0,1" )
STRING(M_CBST_Q07, "+CBST: 4,0,0" )
STRING(M_CBST_Q08, "+CBST: 4,0,1" )
STRING(M_CBST_Q09, "+CBST: 5,0,0" )
STRING(M_CBST_Q10, "+CBST: 5,0,1" )
STRING(M_CBST_Q11, "+CBST: 6,0,0" )
STRING(M_CBST_Q12, "+CBST: 6,0,1" )
STRING(M_CBST_Q13, "+CBST: 7,0,0" )
STRING(M_CBST_Q14, "+CBST: 7,0,1" )
STRING(M_CBST_Q15, "+CBST: 12,0,0" )
STRING(M_CBST_Q16, "+CBST: 12,0,1" )
STRING(M_CBST_Q17, "+CBST: 14,0,0" )
STRING(M_CBST_Q18, "+CBST: 14,0,1" )
STRING(M_CBST_Q19, "+CBST: 34,0,0" )
STRING(M_CBST_Q20, "+CBST: 34,0,1" )
STRING(M_CBST_Q21, "+CBST: 36,0,0" )
STRING(M_CBST_Q22, "+CBST: 36,0,1" )
STRING(M_CBST_Q23, "+CBST: 38,0,0" )
STRING(M_CBST_Q24, "+CBST: 38,0,1" )
STRING(M_CBST_Q25, "+CBST: 39,0,0" )
STRING(M_CBST_Q26, "+CBST: 39,0,1" )
STRING(M_CBST_Q27, "+CBST: 43,0,0" )
STRING(M_CBST_Q28, "+CBST: 43,0,1" )
STRING(M_CBST_Q29, "+CBST: 65,0,0" )
STRING(M_CBST_Q30, "+CBST: 65,0,1" )
STRING(M_CBST_Q31, "+CBST: 66,0,0" )
```

```
STRING(M_CBST_Q32, "+CBST: 66,0,1" )
STRING(M_CBST_Q33, "+CBST: 68,0,0" )
STRING(M_CBST_Q34, "+CBST: 68,0,1" )
STRING(M_CBST_Q35, "+CBST: 70,0,0" )
STRING(M_CBST_Q36, "+CBST: 70,0,1" )
STRING(M_CBST_Q37, "+CBST: 71,0,0" )
STRING(M_CBST_Q38, "+CBST: 71,0,1" )
STRING(M_CBST_Q39, "+CBST: 75,0,0" )
STRING(M_CBST_Q40, "+CBST: 75,0,1" )
BYTE LM_CBST_Q0 12
BYTE LM_CBST_Q1 13                    //for M_CSTA_Q > 14

/*--- "+CBST=*" (CBST_S) ----*/
//  Commqand
STRING(C_CBST_S00, "AT+CBST=0,0,1" )      //autobauding only in non-transarent mode
STRING(C_CBST_S01, "AT+CBST=1,0,0" )
STRING(C_CBST_S02, "AT+CBST=1,0,1" )
STRING(C_CBST_S03, "AT+CBST=2,0,0" )
STRING(C_CBST_S04, "AT+CBST=2,0,1" )
STRING(C_CBST_S05, "AT+CBST=3,0,0" )
STRING(C_CBST_S06, "AT+CBST=3,0,1" )
STRING(C_CBST_S07, "AT+CBST=4,0,0" )
STRING(C_CBST_S08, "AT+CBST=4,0,1" )
STRING(C_CBST_S09, "AT+CBST=5,0,0" )
STRING(C_CBST_S10, "AT+CBST=5,0,1" )
STRING(C_CBST_S11, "AT+CBST=6,0,0" )
STRING(C_CBST_S12, "AT+CBST=6,0,1" )
STRING(C_CBST_S13, "AT+CBST=7,0,0" )      //standard settings
STRING(C_CBST_S14, "AT+CBST=7,0,1" )
STRING(C_CBST_S15, "AT+CBST=12,0,0" )
STRING(C_CBST_S16, "AT+CBST=12,0,1" )
STRING(C_CBST_S17, "AT+CBST=14,0,0" )
STRING(C_CBST_S18, "AT+CBST=14,0,1" )
STRING(C_CBST_S19, "AT+CBST=34,0,0" )
STRING(C_CBST_S20, "AT+CBST=34,0,1" )
STRING(C_CBST_S21, "AT+CBST=36,0,0" )
STRING(C_CBST_S22, "AT+CBST=36,0,1" )
STRING(C_CBST_S23, "AT+CBST=38,0,0" )
STRING(C_CBST_S24, "AT+CBST=38,0,1" )
STRING(C_CBST_S25, "AT+CBST=39,0,0" )
STRING(C_CBST_S26, "AT+CBST=39,0,1" )
STRING(C_CBST_S27, "AT+CBST=43,0,0" )
STRING(C_CBST_S28, "AT+CBST=43,0,1" )
STRING(C_CBST_S29, "AT+CBST=65,0,0" )
STRING(C_CBST_S30, "AT+CBST=65,0,1" )
STRING(C_CBST_S31, "AT+CBST=66,0,0" )
STRING(C_CBST_S32, "AT+CBST=66,0,1" )
STRING(C_CBST_S33, "AT+CBST=68,0,0" )
STRING(C_CBST_S34, "AT+CBST=68,0,1" )
STRING(C_CBST_S35, "AT+CBST=70,0,0" )
STRING(C_CBST_S36, "AT+CBST=70,0,1" )
STRING(C_CBST_S37, "AT+CBST=71,0,0" )
STRING(C_CBST_S38, "AT+CBST=71,0,1" )
STRING(C_CBST_S39, "AT+CBST=75,0,0" )
STRING(C_CBST_S40, "AT+CBST=75,0,1" )
STRING(C_CBST_S99, "AT+CBST=0,0,0" )
BYTE LC_CBST_S0 13
BYTE LC_CBST_S1 14
```

```
STRING(C_PLUS_CBST_14400_ASY_BTP, "AT+CBST=43,0,2" )
BYTE LC_PLUS_CBST_14400_ASY_BTP 14
```

/*--- "+CRLP=?" (CRLP_T) ----*/

```
// Commqand:
STRING(C_CRLP_T, "AT+CRLP=?" )
BYTE LC_CRLP_T 10
// Message:
STRING(M_CRLP_T, "+CRLP: (0-61),(0-61),(39-255),(1-255)" )
BYTE LM_CRLP_T 37
```

/*--- "+CRLP?" (CRLP_Q) ----*/

```
// Commqand:
STRING(C_CRLP_Q, "AT+CRLP?" )
BYTE LC_CRLP_Q 9
// Message:
STRING(M_CRLP_Q0, "+CRLP: 61,61,48,6" )
STRING(M_CRLP_Q1, "+CRLP: 0,61,48,6" )
STRING(M_CRLP_Q2, "+CRLP: 48,61,48,6" )
STRING(M_CRLP_Q3, "+CRLP: 48,0,48,6" )
STRING(M_CRLP_Q4, "+CRLP: 48,49,48,6" )
STRING(M_CRLP_Q5, "+CRLP: 48,49,39,6" )
STRING(M_CRLP_Q6, "+CRLP: 48,49,250,6" )
STRING(M_CRLP_Q7, "+CRLP: 48,49,250,1" )
STRING(M_CRLP_Q8, "+CRLP: 48,49,250,200" )
BYTE LM_CRLP_Q0 17
BYTE LM_CRLP_Q1 16
BYTE LM_CRLP_Q2 17
BYTE LM_CRLP_Q3 16
BYTE LM_CRLP_Q4 17
BYTE LM_CRLP_Q5 17
BYTE LM_CRLP_Q6 18
BYTE LM_CRLP_Q7 18
BYTE LM_CRLP_Q8 20
```

/*--- "+CRLP=..." (CRLP_S) ----*/

```
// Commqand:
STRING(C_CRLP_S0, "AT+CRLP=0" )
STRING(C_CRLP_S1, "AT+CRLP=48" )
STRING(C_CRLP_S2, "AT+CRLP=48,0" )
STRING(C_CRLP_S3, "AT+CRLP=48,49" )
STRING(C_CRLP_S4, "AT+CRLP=48,49,39" )
STRING(C_CRLP_S5, "AT+CRLP=48,49,250" )
STRING(C_CRLP_S6, "AT+CRLP=48,49,250,1" )
STRING(C_CRLP_S7, "AT+CRLP=48,49,250,200" )
STRING(C_CRLP_S10, "AT+CRLP=64" )
STRING(C_CRLP_S11, "AT+CRLP=48,64" )
STRING(C_CRLP_S12, "AT+CRLP=48,48,30" )
STRING(C_CRLP_S13, "AT+CRLP=48,48,256" )
STRING(C_CRLP_S14, "AT+CRLP=48,48,48,0" )
STRING(C_CRLP_S15, "AT+CRLP=48,48,48,256" )
BYTE LC_CRLP_S0 10
BYTE LC_CRLP_S1 11
BYTE LC_CRLP_S2 13
BYTE LC_CRLP_S3 14
BYTE LC_CRLP_S4 17
BYTE LC_CRLP_S5 18
BYTE LC_CRLP_S6 20
```

```
BYTE LC_CRLP_S7 22
BYTE LC_CRLP_S10 11
BYTE LC_CRLP_S11 14
BYTE LC_CRLP_S12 17
BYTE LC_CRLP_S13 18
BYTE LC_CRLP_S14 19
BYTE LC_CRLP_S15 21
```

/*--- "+CR=?" (CR_T) ----*/

```
// Commqand:
STRING(C_CR_T, "AT+CR=?" )
BYTE LC_CR_T 8
// Message:
STRING(M_CR_T, "+CR: (0,1)" )
BYTE LM_CR_T 10
```

/*--- "+CR?" (CR_Q) ----*/

```
// Commqand:
STRING(C_CR_Q, "AT+CR?" )
BYTE LC_CR_Q 7
// Message:
STRING(M_CR_Q0, "+CR: 0" )
STRING(M_CR_Q1, "+CR: 1" )
BYTE LM_CR_Q 6
```

/*--- "+CR=*" (CR_S) ----*/

```
// Commqand:
STRING(C_CR_S0, "AT+CR=0" )
STRING(C_CR_S1, "AT+CR=1" )
STRING(C_CR_S9, "AT+CR=2" )
BYTE LC_CR_S 7
```

/*--- "+CRC=?" (CRC_T) ----*/

```
// Commqand:
STRING(C_CRC_T, "AT+CRC=?" )
BYTE LC_CRC_T 9
// Message:
STRING(M_CRC_T, "+CRC: (0,1)" )
BYTE LM_CRC_T 11
```

/*--- "+CRC?" (CRC_Q) ----*/

```
// Commqand:
STRING(C_CRC_Q, "AT+CRC?" )
BYTE LC_CRC_Q 8
// Message:
STRING(M_CRC_Q0, "+CRC: 0" )
STRING(M_CRC_Q1, "+CRC: 1" )
BYTE LM_CRC_Q 7
```

/*--- "+CRC=*" (CRC_S) ----*/

```
// Commqand:
STRING(C_CRC_S0, "AT+CRC=0" )
STRING(C_CRC_S1, "AT+CRC=1" )
STRING(C_CRC_S9, "AT+CRC=2" )
BYTE LC_CRC_S 8
```

/*--- "+CCUG=?" (CCUG_T) ----*/

```
// Commqand:
```

```
STRING(C_CCUG_T, "AT+CCUG=?" )
BYTE LC_CCUG_T 10
// Message:
STRING(M_CCUG_T, "+CCUG: (0,1),(0-10),(0-3)" )
BYTE LM_CCUG_T 25
```

/*--- "+CCUG?" (CCUG_Q) ----*/

```
// Commqand:
STRING(C_CCUG_Q, "AT+CCUG?" )
BYTE LC_CCUG_Q 9
// Message:
STRING(M_CCUG_Q00, "+CCUG: 0,0,0" )
STRING(M_CCUG_Q01, "+CCUG: 0,1,0" )
STRING(M_CCUG_Q02, "+CCUG: 0,2,0" )
STRING(M_CCUG_Q03, "+CCUG: 0,3,0" )
STRING(M_CCUG_Q04, "+CCUG: 0,4,0" )
STRING(M_CCUG_Q05, "+CCUG: 0,5,0" )
STRING(M_CCUG_Q06, "+CCUG: 0,6,0" )
STRING(M_CCUG_Q07, "+CCUG: 0,7,0" )
STRING(M_CCUG_Q08, "+CCUG: 0,8,0" )
STRING(M_CCUG_Q09, "+CCUG: 0,9,0" )
STRING(M_CCUG_Q10, "+CCUG: 0,10,0" )
STRING(M_CCUG_Q11, "+CCUG: 1,0,0" )
STRING(M_CCUG_Q12, "+CCUG: 1,1,0" )
STRING(M_CCUG_Q13, "+CCUG: 1,2,0" )
STRING(M_CCUG_Q14, "+CCUG: 1,3,0" )
STRING(M_CCUG_Q15, "+CCUG: 1,4,0" )
STRING(M_CCUG_Q16, "+CCUG: 1,5,0" )
STRING(M_CCUG_Q17, "+CCUG: 1,6,0" )
STRING(M_CCUG_Q18, "+CCUG: 1,7,0" )
STRING(M_CCUG_Q19, "+CCUG: 1,8,0" )
STRING(M_CCUG_Q20, "+CCUG: 1,9,0" )
STRING(M_CCUG_Q21, "+CCUG: 1,10,0" )
STRING(M_CCUG_Q22, "+CCUG: 0,0,1" )
STRING(M_CCUG_Q23, "+CCUG: 0,1,1" )
STRING(M_CCUG_Q24, "+CCUG: 0,2,1" )
STRING(M_CCUG_Q25, "+CCUG: 0,3,1" )
STRING(M_CCUG_Q26, "+CCUG: 0,4,1" )
STRING(M_CCUG_Q27, "+CCUG: 0,5,1" )
STRING(M_CCUG_Q28, "+CCUG: 0,6,1" )
STRING(M_CCUG_Q29, "+CCUG: 0,7,1" )
STRING(M_CCUG_Q30, "+CCUG: 0,8,1" )
STRING(M_CCUG_Q31, "+CCUG: 0,9,1" )
STRING(M_CCUG_Q32, "+CCUG: 0,10,1" )
STRING(M_CCUG_Q33, "+CCUG: 1,0,1" )
STRING(M_CCUG_Q34, "+CCUG: 1,1,1" )
STRING(M_CCUG_Q35, "+CCUG: 1,2,1" )
STRING(M_CCUG_Q36, "+CCUG: 1,3,1" )
STRING(M_CCUG_Q37, "+CCUG: 1,4,1" )
STRING(M_CCUG_Q38, "+CCUG: 1,5,1" )
STRING(M_CCUG_Q39, "+CCUG: 1,6,1" )
STRING(M_CCUG_Q40, "+CCUG: 1,7,1" )
STRING(M_CCUG_Q41, "+CCUG: 1,8,1" )
STRING(M_CCUG_Q42, "+CCUG: 1,9,1" )
STRING(M_CCUG_Q43, "+CCUG: 1,10,1" )
STRING(M_CCUG_Q44, "+CCUG: 0,0,2" )
STRING(M_CCUG_Q45, "+CCUG: 0,1,2" )
STRING(M_CCUG_Q46, "+CCUG: 0,2,2" )
```

```
STRING(M_CCUG_Q47, "+CCUG: 0,3,2" )
STRING(M_CCUG_Q48, "+CCUG: 0,4,2" )
STRING(M_CCUG_Q49, "+CCUG: 0,5,2" )
STRING(M_CCUG_Q50, "+CCUG: 0,6,2" )
STRING(M_CCUG_Q51, "+CCUG: 0,7,2" )
STRING(M_CCUG_Q52, "+CCUG: 0,8,2" )
STRING(M_CCUG_Q53, "+CCUG: 0,9,2" )
STRING(M_CCUG_Q54, "+CCUG: 0,10,2" )
STRING(M_CCUG_Q55, "+CCUG: 1,0,2" )
STRING(M_CCUG_Q56, "+CCUG: 1,1,2" )
STRING(M_CCUG_Q57, "+CCUG: 1,2,2" )
STRING(M_CCUG_Q58, "+CCUG: 1,3,2" )
STRING(M_CCUG_Q59, "+CCUG: 1,4,2" )
STRING(M_CCUG_Q60, "+CCUG: 1,5,2" )
STRING(M_CCUG_Q61, "+CCUG: 1,6,2" )
STRING(M_CCUG_Q62, "+CCUG: 1,7,2" )
STRING(M_CCUG_Q63, "+CCUG: 1,8,2" )
STRING(M_CCUG_Q64, "+CCUG: 1,9,2" )
STRING(M_CCUG_Q65, "+CCUG: 1,10,2" )
STRING(M_CCUG_Q66, "+CCUG: 0,0,3" )
STRING(M_CCUG_Q67, "+CCUG: 0,1,3" )
STRING(M_CCUG_Q68, "+CCUG: 0,2,3" )
STRING(M_CCUG_Q69, "+CCUG: 0,3,3" )
STRING(M_CCUG_Q70, "+CCUG: 0,4,3" )
STRING(M_CCUG_Q71, "+CCUG: 0,5,3" )
STRING(M_CCUG_Q72, "+CCUG: 0,6,3" )
STRING(M_CCUG_Q73, "+CCUG: 0,7,3" )
STRING(M_CCUG_Q74, "+CCUG: 0,8,3" )
STRING(M_CCUG_Q75, "+CCUG: 0,9,3" )
STRING(M_CCUG_Q76, "+CCUG: 0,10,3" )
STRING(M_CCUG_Q77, "+CCUG: 1,0,3" )
STRING(M_CCUG_Q78, "+CCUG: 1,1,3" )
STRING(M_CCUG_Q79, "+CCUG: 1,2,3" )
STRING(M_CCUG_Q80, "+CCUG: 1,3,3" )
STRING(M_CCUG_Q81, "+CCUG: 1,4,3" )
STRING(M_CCUG_Q82, "+CCUG: 1,5,3" )
STRING(M_CCUG_Q83, "+CCUG: 1,6,3" )
STRING(M_CCUG_Q84, "+CCUG: 1,7,3" )
STRING(M_CCUG_Q85, "+CCUG: 1,8,3" )
STRING(M_CCUG_Q86, "+CCUG: 1,9,3" )
STRING(M_CCUG_Q87, "+CCUG: 1,10,3" )
BYTE LM_CCUG_Q0 12
BYTE LM_CCUG_Q1 13 //only for S10, S21, 32, 43, 54, 65, 76, 87
```

/*--- "+CCUG=*" (CCUG_S) ----*/

// Commqand:

```
STRING(C_CCUG_S00, "AT+CCUG=0,0,0" )
STRING(C_CCUG_S01, "AT+CCUG=0,1,0" )
STRING(C_CCUG_S02, "AT+CCUG=0,2,0" )
STRING(C_CCUG_S03, "AT+CCUG=0,3,0" )
STRING(C_CCUG_S04, "AT+CCUG=0,4,0" )
STRING(C_CCUG_S05, "AT+CCUG=0,5,0" )
STRING(C_CCUG_S06, "AT+CCUG=0,6,0" )
STRING(C_CCUG_S07, "AT+CCUG=0,7,0" )
STRING(C_CCUG_S08, "AT+CCUG=0,8,0" )
STRING(C_CCUG_S09, "AT+CCUG=0,9,0" )
STRING(C_CCUG_S10, "AT+CCUG=0,10,0" )
STRING(C_CCUG_S11, "AT+CCUG=1,0,0" )
```

```
STRING(C_CCUG_S12, "AT+CCUG=1,1,0" )
STRING(C_CCUG_S13, "AT+CCUG=1,2,0" )
STRING(C_CCUG_S14, "AT+CCUG=1,3,0" )
STRING(C_CCUG_S15, "AT+CCUG=1,4,0" )
STRING(C_CCUG_S16, "AT+CCUG=1,5,0" )
STRING(C_CCUG_S17, "AT+CCUG=1,6,0" )
STRING(C_CCUG_S18, "AT+CCUG=1,7,0" )
STRING(C_CCUG_S19, "AT+CCUG=1,8,0" )
STRING(C_CCUG_S20, "AT+CCUG=1,9,0" )
STRING(C_CCUG_S21, "AT+CCUG=1,10,0" )
STRING(C_CCUG_S22, "AT+CCUG=0,0,1" )
STRING(C_CCUG_S23, "AT+CCUG=0,1,1" )
STRING(C_CCUG_S24, "AT+CCUG=0,2,1" )
STRING(C_CCUG_S25, "AT+CCUG=0,3,1" )
STRING(C_CCUG_S26, "AT+CCUG=0,4,1" )
STRING(C_CCUG_S27, "AT+CCUG=0,5,1" )
STRING(C_CCUG_S28, "AT+CCUG=0,6,1" )
STRING(C_CCUG_S29, "AT+CCUG=0,7,1" )
STRING(C_CCUG_S30, "AT+CCUG=0,8,1" )
STRING(C_CCUG_S31, "AT+CCUG=0,9,1" )
STRING(C_CCUG_S32, "AT+CCUG=0,10,1" )
STRING(C_CCUG_S33, "AT+CCUG=1,0,1" )
STRING(C_CCUG_S34, "AT+CCUG=1,1,1" )
STRING(C_CCUG_S35, "AT+CCUG=1,2,1" )
STRING(C_CCUG_S36, "AT+CCUG=1,3,1" )
STRING(C_CCUG_S37, "AT+CCUG=1,4,1" )
STRING(C_CCUG_S38, "AT+CCUG=1,5,1" )
STRING(C_CCUG_S39, "AT+CCUG=1,6,1" )
STRING(C_CCUG_S40, "AT+CCUG=1,7,1" )
STRING(C_CCUG_S41, "AT+CCUG=1,8,1" )
STRING(C_CCUG_S42, "AT+CCUG=1,9,1" )
STRING(C_CCUG_S43, "AT+CCUG=1,10,1" )
STRING(C_CCUG_S44, "AT+CCUG=0,0,2" )
STRING(C_CCUG_S45, "AT+CCUG=0,1,2" )
STRING(C_CCUG_S46, "AT+CCUG=0,2,2" )
STRING(C_CCUG_S47, "AT+CCUG=0,3,2" )
STRING(C_CCUG_S48, "AT+CCUG=0,4,2" )
STRING(C_CCUG_S49, "AT+CCUG=0,5,2" )
STRING(C_CCUG_S50, "AT+CCUG=0,6,2" )
STRING(C_CCUG_S51, "AT+CCUG=0,7,2" )
STRING(C_CCUG_S52, "AT+CCUG=0,8,2" )
STRING(C_CCUG_S53, "AT+CCUG=0,9,2" )
STRING(C_CCUG_S54, "AT+CCUG=0,10,2" )
STRING(C_CCUG_S55, "AT+CCUG=1,0,2" )
STRING(C_CCUG_S56, "AT+CCUG=1,1,2" )
STRING(C_CCUG_S57, "AT+CCUG=1,2,2" )
STRING(C_CCUG_S58, "AT+CCUG=1,3,2" )
STRING(C_CCUG_S59, "AT+CCUG=1,4,2" )
STRING(C_CCUG_S60, "AT+CCUG=1,5,2" )
STRING(C_CCUG_S61, "AT+CCUG=1,6,2" )
STRING(C_CCUG_S62, "AT+CCUG=1,7,2" )
STRING(C_CCUG_S63, "AT+CCUG=1,8,2" )
STRING(C_CCUG_S64, "AT+CCUG=1,9,2" )
STRING(C_CCUG_S65, "AT+CCUG=1,10,2" )
STRING(C_CCUG_S66, "AT+CCUG=0,0,3" )
STRING(C_CCUG_S67, "AT+CCUG=0,1,3" )
STRING(C_CCUG_S68, "AT+CCUG=0,2,3" )
STRING(C_CCUG_S69, "AT+CCUG=0,3,3" )
```

```
STRING(C_CCUG_S70, "AT+CCUG=0,4,3" )
STRING(C_CCUG_S71, "AT+CCUG=0,5,3" )
STRING(C_CCUG_S72, "AT+CCUG=0,6,3" )
STRING(C_CCUG_S73, "AT+CCUG=0,7,3" )
STRING(C_CCUG_S74, "AT+CCUG=0,8,3" )
STRING(C_CCUG_S75, "AT+CCUG=0,9,3" )
STRING(C_CCUG_S76, "AT+CCUG=0,10,3" )
STRING(C_CCUG_S77, "AT+CCUG=1,0,3" )
STRING(C_CCUG_S78, "AT+CCUG=1,1,3" )
STRING(C_CCUG_S79, "AT+CCUG=1,2,3" )
STRING(C_CCUG_S80, "AT+CCUG=1,3,3" )
STRING(C_CCUG_S81, "AT+CCUG=1,4,3" )
STRING(C_CCUG_S82, "AT+CCUG=1,5,3" )
STRING(C_CCUG_S83, "AT+CCUG=1,6,3" )
STRING(C_CCUG_S84, "AT+CCUG=1,7,3" )
STRING(C_CCUG_S85, "AT+CCUG=1,8,3" )
STRING(C_CCUG_S86, "AT+CCUG=1,9,3" )
STRING(C_CCUG_S87, "AT+CCUG=1,10,3" )
STRING(C_CCUG_S97, "AT+CCUG=2,0,0" )
STRING(C_CCUG_S98, "AT+CCUG=0,11,0" )
STRING(C_CCUG_S99, "AT+CCUG=0,0,4" )
BYTE LC_CCUG_S0 14
BYTE LC_CCUG_S1 15   //only for S10, S21, S32, S43, S54, S65, S76, S87, S98
```

/*--- "+CTFR=?"(CTFR_T) ,"+CTFR?"(CTFR_Q) ----*/

```
//    Commqand:
STRING(C_CTFR_T, "AT+CTFR=?" )
BYTE LC_CTFR_T 10
STRING(C_CTFR_Q, "AT+CTFR?" )
BYTE LC_CTFR_Q 9
```

/*--- "+CTFR=..."(CTFR_S) ----*/

```
//    Commqand:
STRING(C_CTFR_S, "AT+CTFR=\"01234567\"" )
BYTE LC_CTFR_S 23
```

/*--- "+CLCC=?" (CLCC_T) ----*/

```
//    Commqand:
STRING(C_CLCC_T, "AT+CLCC=?" )
BYTE LC_CLCC_T 10
```

/*--- "+CLCC?" (CLCC_Q) ----*/

```
//    Commqand:
STRING(C_PLUS_CLCC, "AT+CLCC " )
BYTE LC_PLUS_CLCC 7
```

/*--- "+CAOC=?" (CAOC_T) ----*/

```
//    Commqand:
STRING(C_CAOC_T, "AT+CAOC=?" )
BYTE LC_CAOC_T 10
//    Message:
STRING(M_CAOC_T, "+CAOC: (0-2)" )
BYTE LM_CAOC_T 12
```

/*--- "+CAOC?" (CAOC_Q) ----*/

```
//    Commqand:
STRING(C_CAOC_Q, "AT+CAOC?" )
BYTE LC_CAOC_Q 9
```

```
// Message:
STRING(M_CAOC_Q0, "+CAOC: 0" )
STRING(M_CAOC_Q1, "+CAOC: 1" )
STRING(M_CAOC_Q2, "+CAOC: 2" )
BYTE LM_CAOC_Q 8

STRING(M_CAOC_CCM, "+CAOC: \"000000\"" )
BYTE LM_CAOC_CCM 15
```

/*--- "+CAOC=*" (CAOC_S) ----*/

```
// Commqand:
STRING(C_CAOC_S0, "AT+CAOC=0" )
STRING(C_CAOC_S1, "AT+CAOC=1" )
STRING(C_CAOC_S2, "AT+CAOC=2" )
STRING(C_CAOC_S9, "AT+CAOC=4" )
BYTE LC_CAOC_S 10
```

/*--- "+CEER" (CEER_T) ----*/

```
// Commqand:
STRING(C_CEER_T, "AT+CEER=?" )
BYTE LC_CEER_T 10
```

/*--- "+CEER" (CEER_Q) ----*/

```
// Commqand:
STRING(C_CEER_Q, "AT+CEER?" )
BYTE LC_CEER_Q 9
```

/*--- "+CEER" (CEER_S) ----*/

```
// Commqand:
STRING(C_CEER_S, "AT+CEER" )
BYTE LC_CEER_S 8
// Message:
STRING(M_CEER_NO_ERR, "+CEER: no error" )
STRING(M_CEER_BEAR_SERV_NOT_AVAIL, "+CEER: bearer service not available" )
STRING(M_CEER_NO_TRANS_ID_AVAIL, "+CEER: no TI available" )
STRING(M_CEER_T303, "+CEER: timer 303 expiry" )
STRING(M_CEER_ESTAB_FAIL, "+CEER: establishment failure" )
STRING(M_CEER_NOT_PRES, "+CEER: not present" )
STRING(M_CEER_USR_BUSY, "+CEER: user busy" )
STRING(M_CEER_ALRT_NO_ANSW,"+CEER: user alerting, no answer")
STRING(M_CEER_UNASSIGNED,"+CEER: unassigned number")
STRING(M_CEER_NO_ROUTE,"+CEER: no route to destination")
STRING(M_CEER_NO_USR_RESP,"+CEER: no user responding")
STRING(M_CEER_DEST_OOO,"+CEER: destination out of order")
STRING(M_CEER_INV_FORMAT,"+CEER: invalid number format")
BYTE LM_CEER_NO_ERR 15
BYTE LM_CEER_BEAR_SERV_NOT_AVAIL 35
BYTE LM_CEER_NO_TRANS_ID_AVAIL 22
BYTE LM_CEER_T303 23
BYTE LM_CEER_ESTAB_FAIL 28
BYTE LM_CEER_NOT_PRES 19
BYTE LM_CEER_USR_BUSY 16
BYTE LM_CEER_ALRT_NO_ANSW 31
BYTE LM_CEER_UNASSIGNED 24
BYTE LM_CEER_NO_ROUTE 30
BYTE LM_CEER_NO_USR_RESP 25
BYTE LM_CEER_DEST_OOO 31
BYTE LM_CEER_INV_FORMAT 28
```

/*--- "+CACM=?" (CACM_T) -----*/
// Commqand:
```
STRING(C_CACM_T, "AT+CACM=?" )
BYTE LC_CACM_T 10
```

/*--- "+CACM?" (CACM_Q) -----*/
// Commqand:
```
STRING(C_CACM_Q, "AT+CACM?" )
BYTE LC_CACM_Q 9
```
// Message:
```
STRING(M_CACM_Q, "+CACM: \"0\"" )
BYTE LM_CACM_Q 10

STRING(M_CACM_Q1, "+CACM: \"000000\"" )
BYTE LM_CACM_Q1 15
```

/*--- "+CACM=\"12345\"" (CACM_T) -----*/
// Commqand:
```
STRING(C_CACM_S, "AT+CACM=\"12345\"" )
BYTE LC_CACM_S 16
```

/*---"CPBS=?"—(CPBS_T) */
// Command:
```
STRING(C_CPBS_T, "AT+CPBS=?" )
BYTE LC_CPBS_T 10
```
// Message:
```
STRING(M_CPBS_T, "+CPBS: (\"EN\",\"BD\",\"FD\",\"LD\",\"LR\",\"AD\",\"SD\",\"LM\",\"AF\")" )
BYTE LM_CPBS_T 53
```

/*---"CPBS="—(CPBS_S) */
// Command:
```
STRING(C_CPBS_EN, "AT+CPBS=\"EN\"" )
STRING(C_CPBS_BD, "AT+CPBS=\"BD\"" )
STRING(C_CPBS_FD, "AT+CPBS=\"FD\"" )
STRING(C_CPBS_LD, "AT+CPBS=\"LD\"" )
STRING(C_CPBS_LR, "AT+CPBS=\"LR\"" )
STRING(C_CPBS_AD, "AT+CPBS=\"AD\"" )
STRING(C_CPBS_SD, "AT+CPBS=\"SD\"" )
STRING(C_CPBS_LM, "AT+CPBS=\"LM\"" )
STRING(C_CPBS_AF, "AT+CPBS=\"AF\"" )
STRING(C_CPBS_SM, "AT+CPBS=\"SM\"" )
STRING(C_CPBS_AA, "AT+CPBS=\"AA\"" )
STRING(C_CPBS_XX, "AT+CPBS=\"XX\"" )
BYTE LC_CPBS_S 13
```

/*---"CPBS?"—(CPBS_Q) */
// Command:
```
STRING(C_CPBS_Q, "AT+CPBS?" )
BYTE LC_CPBS_Q 9
```
// Message:
```
STRING(M_CPBS_EN, "+CPBS: \"EN\",3,4" )
STRING(M_CPBS_BD, "+CPBS: \"BD\",1,2" )
STRING(M_CPBS_FD, "+CPBS: \"FD\",2,4" )
STRING(M_CPBS_LD, "+CPBS: \"LD\",0,10" )
STRING(M_CPBS_LD1, "+CPBS: \"LD\",1,10" )
STRING(M_CPBS_LR, "+CPBS: \"LR\",0,10" )
STRING(M_CPBS_AD, "+CPBS: \"AD\",2,4" )
```

```
STRING(M_CPBS_SD, "+CPBS: \"SD\",1,1" )
STRING(M_CPBS_LM, "+CPBS: \"LM\",0,10" )
STRING(M_CPBS_AF, "+CPBS: \"AF\",2,4" )
BYTE LM_CPBS_EN 15
BYTE LM_CPBS_BD 15
BYTE LM_CPBS_FD 15
BYTE LM_CPBS_LD 16
BYTE LM_CPBS_LD1 16
BYTE LM_CPBS_LR 16
BYTE LM_CPBS_AD 15
BYTE LM_CPBS_SD 15
BYTE LM_CPBS_LM 16
BYTE LM_CPBS_AF 15
```

/*---"CPBR=?"—(CPBR_T) */

```
// Command:
STRING(C_CPBR_T, "AT+CPBR=?" )
BYTE LC_CPBR_T 10
// Message: ADN_Length = 34
STRING(M_CPBR_T_EN1, "+CPBR: (1-4),20,0" )
STRING(M_CPBR_T_LD1, "+CPBR: (1-10),20,0" )
STRING(M_CPBR_T_LR1, "+CPBR: (1-10),20,0" )
STRING(M_CPBR_T_AD1, "+CPBR: (1-4),20,20" )
STRING(M_CPBR_T_LM1, "+CPBR: (1-10),20,0" )
STRING(M_CPBR_T_AF1, "+CPBR: (1-4),20,20" )
STRING(M_CPBR_T_FD1, "+CPBR: (1-4),20,20" )
BYTE LM_CPBR_T_EN1 17
BYTE LM_CPBR_T_LD1 18
BYTE LM_CPBR_T_LR1 18
BYTE LM_CPBR_T_AD1 18
BYTE LM_CPBR_T_LM1 18
BYTE LM_CPBR_T_AF1 18
BYTE LM_CPBR_T_FD1 18
// Message: ADN_Length = 38
STRING(M_CPBR_T_AD2, "+CPBR: (1-4),20,20" )
STRING(M_CPBR_T_AF2, "+CPBR: (1-4),20,20" )
BYTE LM_CPBR_T_AD2 18
BYTE LM_CPBR_T_AF2 18
// Message: ADN_Length = 54
STRING(M_CPBR_T_AD3, "+CPBR: (1-4),20,20" )
STRING(M_CPBR_T_AF3, "+CPBR: (1-4),20,20" )
BYTE LM_CPBR_T_AD3 18
BYTE LM_CPBR_T_AF3 18
// Message: ADN_Length = 94
STRING(M_CPBR_T_AD4, "+CPBR: (1-4),20,20" )
STRING(M_CPBR_T_AF4, "+CPBR: (1-4),20,20" )
BYTE LM_CPBR_T_AD4 18
BYTE LM_CPBR_T_AF4 18
```

/*---"CPBR?"—(CPBR_Q) */

```
// Command:
STRING(C_CPBR_Q, "AT+CPBR?" )
BYTE LC_CPBR_Q 9
```

/*---"CPBR=<n>"—(CPBR_S) */

```
// Command:
STRING(C_CPBR_S0, "AT+CPBR=1" )
STRING(C_CPBR_S1, "AT+CPBR=2" )
```

```
STRING(C_CPBR_S2, "AT+CPBR=3" )
STRING(C_CPBR_S3, "AT+CPBR=7" )
BYTE LC_CPBR_S 10

STRING(C_CPBR_LDS0, "AT+CPBR=1" )
BYTE LC_CPBR_LDS0 10
STRING(M_CPBR_LD, "+CPBR: 1,\"03076903367\",129,\"toto\"" )
BYTE LM_CPBR_LD 42

STRING(M_CPBR_LD1, "+CPBR: 1,\"03039094336\",129,\"\"" )
BYTE LM_CPBR_LD1 42
STRING(M_CPBR_LD2, "+CPBR: 1,\" 03076903367\",129,\"\"" )
BYTE LM_CPBR_LD2 32

// Message:      (ADN_Alpha_length = 20)
STRING(M_CPBR_AD1, "+CPBR: 1,\"00491239876543\",129,\"Heier, Max\"" )
STRING(M_CPBR_AD2, "+CPBR: 2,\"9123456789\",161,\"Hans Egon\"" )
BYTE LM_CPBR_AD1 42
BYTE LM_CPBR_AD2 37
// Message:      (ADN_Alpha_length > 20)
STRING(M_CPBR_AD10, "+CPBR: 1,\"3444601*9123456789\",194,\"ABCDEFGHIJABCDEFGHIJ\"" )
//STRING(M_CPBR_AD10, "+CPBR: 1,\"9123456789\",161,\"ABCDEFGHIJABCDEFGHIJ\"" )
//STRING(M_CPBR_AD11, "+CPBR: 2,\"9123456789\",161,\"abcdefghijabcdefghij\"" )
STRING(M_CPBR_AD11, "+CPBR: 2,\"3646601*9123456789\",226,\"abcdefghijabcdefghij\"" )
BYTE LM_CPBR_AD10 56

// Message:      (FDN_Alpha_length = 20)
STRING(M_CPBR_FD1, "+CPBR: 1,\"00491239876543\",129,\"Heier, Max\"" )
STRING(M_CPBR_FD2, "+CPBR: 2,\"9123456789\",161,\"Hans Egon\"" )
STRING(M_CPBR_FD3, "+CPBR: 3,\"03076903367\",129,\"toto\"" )

BYTE LM_CPBR_FD1 42
BYTE LM_CPBR_FD2 37
BYTE LM_CPBR_FD3 33

// Message:      (SDN_Alpha_length = 20)
STRING(M_CPBR_SD, "+CPBR: 1,\"003076903367\",129,\"Heier, Max\"" )
BYTE LM_CPBR_SD 40

STRING(M_CPBR_BD, "+CPBR: 1,\"003076903367\",129,\"Heier, Max\"" )
BYTE LM_CPBR_BD 40

/*---"CPBF=?"—(CPBF_T) */
// Command:
STRING(C_CPBF_T, "AT+CPBF=?" )
BYTE LC_CPBF_T 10
// Message:
STRING(M_CPBF_T, "+CPBF: 20,20" )
BYTE LM_CPBF_T 12

/*---"CPBF?"—(CPBF_Q) */
// Command:
STRING(C_CPBF_Q, "AT+CPBF?" )
BYTE LC_CPBF_Q 9

/*---"CPBF="..."—(CPBF_S) */
// Command:
STRING(C_CPBF_S0, "AT+CPBF=\"H\"" )
```

```
STRING(C_CPBF_S1, "AT+CPBF=\"Hans\"" )
STRING(C_CPBF_S2, "AT+CPBF=\"Heier\"" )
STRING(C_CPBF_S3, "AT+CPBF=\"Max\"" )
STRING(C_CPBF_S4, "AT+CPBF=\"XXX\"" )
STRING(C_CPBF_S5, "AT+CPBF=\"0123\"" )
STRING(C_CPBF_S6, "AT+CPBF=2" )
BYTE LC_CPBF_S0 12
BYTE LC_CPBF_S1 15
BYTE LC_CPBF_S2 16
BYTE LC_CPBF_S3 14
BYTE LC_CPBF_S4 14
BYTE LC_CPBF_S5 15
BYTE LC_CPBF_S6 10
// Message:
STRING(M_CPBF_S0, "+CPBF: 1,\"00491239876543\",129,\"Heier, Max\"" )
STRING(M_CPBF_S1, "+CPBF: 2,\"9123456789\",161,\"Hans Egon\"" )
BYTE LM_CPBF_S0 42
BYTE LM_CPBF_S1 37

/*---"CPBW=?"—(CPBW_T) */
// Command:
STRING(C_CPBW_T, "AT+CPBW=,\"03076903367\",129,\"toto\"" )
BYTE LC_CPBW_T 33

/*---"CMGF?" */
STRING(C_CMGF_QUERY, "AT+CMGF?")
BYTE LC_CMGF_QUERY 8

/*---"CMGF=.."*/
STRING(C_CMGF_SET_TXT, "AT+CMGF=1")
BYTE LC_CMGF_SET_TXT 9

STRING(C_CMGF_SET_PDU, "AT+CMGF=0")
BYTE LC_CMGF_SET_PDU 9

/* message: CMGF */
STRING(M_CMGF_QUERY_TXT, "\136+CMGF: 1")
BYTE LM_CMGF_QUERY_TXT 8

/* message: CMGF */
STRING(M_CMGF_QUERY_PDU, "\136+CMGF: 0")
BYTE LM_CMGF_QUERY_PDU 8

/*Command -"CSCA" */
STRING(C_CSCA_BOTH_CORRECT, "AT+CSCA=\"12345\"")
BYTE LC_CSCA_BOTH_CORRECT 15
STRING(C_CSCA_QUERY, "AT+CSCA?")
BYTE LC_CSCA_QUERY 8

STRING(C_PLUS_CSCA_DEF, "AT+CSCA=\"017211963852\"")
BYTE LC_PLUS_CSCA_DEF 22

STRING(C_CSCA_ALT, "AT+CSCA=\"963214785\"")
BYTE LC_CSCA_ALT 19
STRING(C_CSCA_MAX_NUM_LEN, "AT+CSCA=\"12345678901234567890 1\"")
BYTE LC_CSCA_MAX_NUM_LEN 31

STRING(M_CSCA_QUERY, "\136+CSCA: \"12345\",129")
```

```
BYTE LM_CSCA_QUERY 18
STRING(M_CSCA_QUERY_DEF, "\136+CSCA: \"\",128")
BYTE LM_CSCA_QUERY_DEF 13
STRING(M_CSCA_QUERY1_SMSP, "\136+CSCA: \"987654321\",129")
BYTE LM_CSCA_QUERY1_SMSP 22
STRING(M_CSCA_QUERY2_SMSP, "\136+CSCA: \"4930390940\",145")
BYTE LM_CSCA_QUERY2_SMSP 23

/*Command -"CSAS" */
STRING(C_CSAS_TEST, "AT+CSAS=?")
BYTE LC_CSAS_TEST 9

/* message: CSAS */
STRING(M_CSAS_TEST_PCM, "\136+CSAS: (0-1)")
BYTE LM_CSAS_TEST_PCM 12

/*---"+CSMS"—(CSMS_T) */
// Command:

STRING(C_CSMS_T, "AT+CSMS=?" )
BYTE LC_CSMS_T 10
// Message:
STRING(M_CSMS_T, "+CSMS: (0,1)" )
BYTE LM_CSMS_T 12

/* command: CSAS */
STRING(C_CSAS_1, "AT+CSAS=0")
STRING(C_CSAS_2, "AT+CSAS=1")
STRING(C_CSAS_3, "AT+CSAS=2")
BYTE LC_CSAS 9

BYTE LM_CSAS_TEST_SMSP 12
STRING(M_CSAS_TEST_SMSP_1, "\136+CSAS: (0-0)")
BYTE LM_CSAS_TEST_SMSP_1 12
STRING(M_CSAS_TEST_SMSP_2, "\136+CSAS: (0-1)")
STRING(M_CSAS_TEST_SMSP_3, "\136+CSAS: (0-2)")
STRING(M_CSAS_TEST_SMSP_5, "\136+CSAS: (0-4)")

/*---"+CSMS"—(CSMS_S) */
STRING(C_PLUS_CSMS_FULL, "AT+CSMS=1" )
BYTE LC_PLUS_CSMS_FULL 9
STRING(C_CSMS_PHASE_2, "AT+CSMS=0")
BYTE LC_CSMS_PHASE_2 9
/* message: CSMS */
STRING(M_CSMS_PHASE_2, "\136+CSMS: 1,1,1")
BYTE LM_CSMS_PHASE_2 12

/*---"+CSMS"—(CSMS_Q) */
STRING(C_CSMS_QUERY, "AT+CSMS?")
BYTE LC_CSMS_QUERY 8
STRING(M_CSMS_QUERY, "\136+CSMS: 0,1,1,1")
BYTE LM_CSMS_QUERY 14

/*---"+CPMS"—(CPMS_Q) */
STRING(C_CPMS_Quarry, "AT+CPMS?")
BYTE LC_CPMS_Quarry 8
/* message: CPMS */
STRING(C_CPMS_SET_SM_ME_SM, "AT+CPMS= \"SM\",\"ME\",\"SM\"")
BYTE LC_CPMS_SET_SM_ME_SM 23
```

```
STRING(M_CPMS_SET_SM_ME_SM, "\136+CPMS: 0,255,0,100,0,255")
BYTE LM_CPMS_SET_SM_ME_SM 24
STRING(M_CPMS_SET_SM_ME_SM_Querry, "\136+CPMS: \"SM\",0,255,\"ME\",0,100,\"SM\",0,255")
BYTE LM_CPMS_SET_SM_ME_SM_Querry 39
```

/*---"+CSMS"—(CSMS_S) */

```
STRING(C_CPMS_SET_SM_SM_SM, "AT+CPMS= \"SM\",\"SM\",\"SM\"")
BYTE LC_CPMS_SET_SM_SM_SM 23
STRING(C_CPMS_SET_ME_ME_ME, "AT+CPMS= \"ME\",\"ME\",\"ME\"")
BYTE LC_CPMS_SET_ME_ME_ME 23
STRING(C_PLUS_CPMS_SM3X_DEF, "+CPMS: 0,10,0,10,0,10")
BYTE LC_PLUS_CPMS_SM3X_DEF 21

STRING(M_CPMS_SET_SM_SM_SM, "\136+CPMS: 0,255,0,255,0,255")
BYTE LM_CPMS_SET_SM_SM_SM 24
STRING(M_CPMS_SET_SM_SM_SM_Querry, "\136+CPMS: \"SM\",0,255,\"SM\",0,255,\"SM\",0,255")
BYTE LM_CPMS_SET_SM_SM_SM_Querry 39
STRING(M_CPMS_SET_ME_ME_ME_Querry, "\136+CPMS: \"ME\",0,100,\"ME\",0,100,\"ME\",0,100")
BYTE LM_CPMS_SET_ME_ME_ME_Querry 39
STRING(M_CPMS_SET_ME_ME_ME, "\136+CPMS: 0,100,0,100,0,100")
BYTE LM_CPMS_SET_ME_ME_ME 24
```

/*---Command "+CSMP"—(CSMP_S) */

```
STRING(C_CSMP_ALL_CORRECT, "AT+CSMP=29,\"98/01/07,12:34:56+04\",64,0")
BYTE LC_CSMP_ALL_CORRECT 38
STRING(C_PLUS_CSMP_DEF, "AT+CSMP=17,167,0,0")
BYTE LC_PLUS_CSMP_DEF 18
STRING(C_PLUS_CSMP_SPEC1, "AT+CSMP=29,\"98/01/07,12:34:56+04\",64,0")
BYTE LC_PLUS_CSMP_SPEC1 38
STRING(C_CSMP_DCS_8_BIT, "AT+CSMP=,,,244")
BYTE LC_CSMP_DCS_8_BIT 14
STRING(C_CSMP_CORRECT, "AT+CSMP=29,\"98/01/07,12:34:56+04\",71,0")
BYTE LC_CSMP_CORRECT 38
```

/*---Command "+CSMP"—(CSMP_Q) */

```
STRING(C_CSMP_QUERY, "AT+CSMP?")
BYTE LC_CSMP_QUERY 8
STRING(M_CSMP_QUERY_DEF, "\136+CSMP: 17,167,0,0")
BYTE LM_CSMP_QUERY_DEF 17
STRING(M_CSMP_QUERY_SMSP_CMPL, "\136+CSMP: 17,57,64,242")
BYTE LM_CSMP_QUERY_SMSP_CMPL 19
STRING(M_CSMP_QUERY_SMSP_WO_PID, "\136+CSMP: 17,57,0,242")
BYTE LM_CSMP_QUERY_SMSP_WO_PID 18
STRING(M_CSMP_QUERY_SMSP_WO_DCS, "\136+CSMP: 17,57,64,0")
BYTE LM_CSMP_QUERY_SMSP_WO_DCS 17
STRING(M_CSMP_QUERY_SMSP_WO_VPREL, "\136+CSMP: 1,,64,242")
BYTE LM_CSMP_QUERY_SMSP_WO_VPREL 16
STRING(M_CSMP_QUERY, "\136+CSMP: 29,\"98/01/07,12:34:56+04\",64,0")
STRING(M_CSMP_QUERY_CORRECT, "\136+CSMP: 29,\"98/01/07,12:34:56+04\",71,0")
BYTE LM_CSMP_QUERY 37
STRING(M_CSMP_QUERY_SMSP_CMPL_MOD, "\136+CSMP: 21,57,64,242")
```

/*---Command "+CRES"—(CRES_S) */

```
STRING(C_CRES_1, "AT+CRES=0")
STRING(C_CRES_2, "AT+CRES=1")
STRING(C_CRES_3, "AT+CRES=2")
BYTE LC_CRES 9

/*
```

```
Command:        +CNMI
                new message indication to TE
*/
STRING(C_PLUS_CNMI_CMTI, "AT+CNMI=1,1,0,0,0" )
BYTE LC_PLUS_CNMI_CMTI 17
```

/*---"+CNMI"—(CNMI_T) */

```
// Command:
STRING(C_CNMI_T, "AT+CNMI=?" )
BYTE LC_CNMI_T 10
// Message:
STRING(M_CNMI_T, "+CNMI: (0-2),(0-3),(0,2),(0,1),(0,1)" )
BYTE LM_CNMI_T 36
```

/*---"+CNMI"—(CNMI_Q) */

```
// Command:
STRING(C_CNMI_Q, "AT+CNMI?" )
BYTE LC_CNMI_Q 9
// Message:
STRING(M_CNMI_Q, "+CNMI: 0,0,0,0,0" )
STRING(M_CNMI_Q1, "+CNMI: 1,0,0,0,0" )
STRING(M_CNMI_Q2, "+CNMI: 2,0,0,0,0" )
STRING(M_CNMI_Q3, "+CNMI: 0,1,0,0,0" )
STRING(M_CNMI_Q4, "+CNMI: 0,2,0,0,0" )
STRING(M_CNMI_Q5, "+CNMI: 0,3,0,0,0" )
STRING(M_CNMI_Q6, "+CNMI: 0,0,2,0,0" )
STRING(M_CNMI_Q7, "+CNMI: 0,0,0,1,0" )
STRING(M_CNMI_Q8, "+CNMI: 0,0,0,0,1" )
BYTE LM_CNMI_Q 16
```

/*---"+CNMI"—(CNMI_S) */

```
// Command:
STRING(C_CNMI_S0, "AT+CNMI=0,0,0,0,0" )
STRING(C_CNMI_S1, "AT+CNMI=1,0,0,0,0" )
STRING(C_CNMI_S2, "AT+CNMI=2,0,0,0,0" )
STRING(C_CNMI_S3, "AT+CNMI=0,1,0,0,0" )
STRING(C_CNMI_S4, "AT+CNMI=0,2,0,0,0" )
STRING(C_CNMI_S5, "AT+CNMI=0,3,0,0,0" )
STRING(C_CNMI_S6, "AT+CNMI=0,0,2,0,0" )
STRING(C_CNMI_S7, "AT+CNMI=0,0,0,1,0" )
STRING(C_CNMI_S8, "AT+CNMI=0,0,0,0,1" )
STRING(C_CNMI_S10, "AT+CNMI=3,0,0,0,0" )
STRING(C_CNMI_S11, "AT+CNMI=0,4,0,0,0" )
STRING(C_CNMI_S12, "AT+CNMI=0,0,1,0,0" )
STRING(C_CNMI_S13, "AT+CNMI=0,0,3,0,0" )
STRING(C_CNMI_S14, "AT+CNMI=0,0,0,2,0" )
STRING(C_CNMI_S15, "AT+CNMI=0,0,0,0,2" )
BYTE LC_CNMI_S 18

STRING(C_CNMI_ON, "AT+CNMI=1,2,2,1,0")
BYTE LC_CNMI_ON 17
STRING(C_CNMI_ONLY_CBM, "AT+CNMI=2,,2")
BYTE LC_CNMI_ONLY_CBM 17
```

/*---"+CMGL"—(CMGL_T) */

```
// Command:
STRING(C_CMGL_T, "AT+CMGL=?" )
```

```
BYTE LC_CMGL_T 10
// Message:
STRING(M_CMGL_T, "+CMGL: \"REC UNREAD\", \"REC READ\", \"STO UNSENT\", \"STO SENT\", \"ALL\"" )
BYTE LM_CMGL_T 64
```

/*---"+CMGL"—(CMGL_Q) */

```
// Command:
STRING(C_CMGL_Q, "AT+CMGL?" )
BYTE LC_CMGL_Q 10
```

/*---"+CMGL"—(CMGL_S) */

```
// Command:
STRING(C_CMGL_S0, "AT+CMGL" )
STRING(C_CMGL_S1, "AT+CMGL=0" )
STRING(C_CMGL_S2, "AT+CMGL=1" )
STRING(C_CMGL_S3, "AT+CMGL=2" )
STRING(C_CMGL_S4, "AT+CMGL=3" )
STRING(C_CMGL_S5, "AT+CMGL=4" )
STRING(C_CMGL_S9, "AT+CMGL=5" )
BYTE LC_CMGL_S0 9
BYTE LC_CMGL_S1 10
// Message:
STRING(M_CMGL_S00, "+CMGL:" )
BYTE LM_CMGL_S0
```

/*---"+CSDH"—(CSDH_T) */

```
// Command:
STRING(C_CSDH_T, "AT+CSDH=?" )
BYTE LC_CSDH_T 10
// Message:
STRING(M_CSDH_T, "+CSDH: (0,1)" )
BYTE LM_CSDH_T 12
```

/*---"+CSDH"—(CSDH_Q) */

```
// Command:
STRING(C_CSDH_Q, "AT+CSDH?" )
BYTE LC_CSDH_Q 10
// Message:
STRING(M_CSDH_Q0, "+CSDH: 0" )
STRING(M_CSDH_Q1, "+CSDH: 1" )
BYTE LM_CSDH_Q 8
```

/*---"+CSDH"—(CSDH_S) */

```
// Command:
STRING(C_CSDH_S0, "AT+CSDH=0" )
STRING(C_CSDH_S1, "AT+CSDH=1" )
STRING(C_CSDH_S9, "AT+CSDH=2" )
BYTE LC_CSDH_S 10
```

/*---"+CMSS"—(CMSS_S) */

```
STRING(C_CMSS_SIM_2, "AT+CMSS=2")
BYTE LC_CMSS_SIM_2 9

/* message: CMSS */
STRING(M_CMSS_MSG_REF_2, "\136+CMSS: 2")
BYTE LM_CMSS_MSG_REF_2 8
```

/*---"+CMGW"—(CMGW_S) */

```
STRING(C_CMGW_WRITING, "AT+CMGW=\"654321\",,\"REC UNREAD\"")
BYTE LC_CMGW_WRITING 30
STRING(C_CMGW_S_NO_STAT_NO_VP, "AT+CMGW=18")
BYTE LC_CMGW_S_NO_STAT_NO_VP 10
STRING(C_CMGW_S_NO_STAT_VP_REL, "AT+CMGW=19")
BYTE LC_CMGW_S_NO_STAT_VP_REL 10
STRING(C_CMGW_S_NO_STAT_VP_ABS, "AT+CMGW=25")
BYTE LC_CMGW_S_NO_STAT_VP_ABS 10
STRING(C_CMGW_S_STO_UNSENT_NO_VP, "AT+CMGW=18,\"STO UNSENT\"")
BYTE LC_CMGW_S_STO_UNSENT_NO_VP 23
STRING(C_CMGW_WRITE_DEF, "AT+CMGW=\"654321\"")
BYTE LC_CMGW_WRITE_DEF 16
STRING(C_CMGW_WRITE_SCA_DEF, "AT+CMGW=\"654321\",,\"12345\"")
BYTE LC_CMGW_WRITE_SCA_DEF 26
STRING(C_CMGW_WRITE_SCA_NORPL, "AT+CMGW=\"654321\",,\"12345\",,0")
BYTE LC_CMGW_WRITE_SCA_NORPL 29
STRING(C_CMGW_WRITE_SCA_ISRPL, "AT+CMGW=\"654321\",,\"12345\",,1")
BYTE LC_CMGW_WRITE_SCA_ISRPL 29
STRING(C_CMGW_WRITE_DA_DEF, "AT+CMGW=\"030654321\"")
BYTE LC_CMGW_WRITE_DA_DEF 19

STRING(C_CMGW_test, "AT+CMGW=?")
BYTE LC_CMGW_test 9

/* command: CMGW */
STRING(C_CMGW_ABCDEFGHI, "ABCDEFGHI")
BYTE LC_CMGW_ABCDEFGHI 9
/* message: CMGW */
STRING(M_CMGW_REC_NUM_2, "\136+CMGW: 2")
BYTE LM_CMGW_REC_NUM_2 8
STRING(M_CMGW_REC_NUM_1, "\136+CMGW: 1")
BYTE LM_CMGW_REC_NUM_1 8
STRING(M_CMGW_REC_NUM_3, "\136+CMGW: 3")
BYTE LM_CMGW_REC_NUM_3 8

STRING(M_EDIT, "\136> ")
BYTE LM_EDIT 2

STRING(M_PROMPT, "\136\r\n> ")
BYTE LM_PROMPT 4
STRING(M_CMGW_MSG_REF_1, "\136+CMGW: 1")
BYTE LM_CMGW_MSG_REF_1 8
STRING(M_CMT_PDU_STO_SENT_IN,"04812143F5010005818967F540F20941E19058341E9149")
BYTE LM_CMT_PDU_STO_SENT_IN 0x46
STRING(M_CMT_PDU_STO_SENT_REL_IN, "04812143F5110005818967F540F2230941E19058341E9149")
BYTE LM_CMT_PDU_STO_SENT_REL_IN 48
STRING(M_CMT_PDU_STO_SENT_ABS_IN, "04812143F5190005818967F540F2891070214365400941E19058341E9149")
BYTE LM_CMT_PDU_STO_SENT_ABS_IN 60
```

/*---"+CMGD"—(CMGD_D) */

```
STRING(C_CMGD_SIM_2, "AT+CMGD=2")
BYTE LC_CMGD_SIM_2 9
```

/*---"+CMGS"—(CMGS_S) */

```
STRING(C_CMGS_SEND_DEF, "AT+CMGS=\"654321\"")
BYTE LC_CMGS_SEND_DEF 16
STRING(C_CMGS_SEND_SCA_DEF, "AT+CMGS=\"654321\",,\"12345\"")
```

```
BYTE LC_CMGS_SEND_SCA_DEF 25
STRING(C_CMGS_SEND_SCA_NORPL, "AT+CMGS=\"654321\",,\"12345\",,0")
BYTE LC_CMGS_SEND_SCA_NORPL 28
STRING(C_CMGS_SEND_SCA_ISRPL, "AT+CMGS=\"654321\",,\"12345\",,1")
BYTE LC_CMGS_SEND_SCA_ISRPL 28
STRING(C_CMGS_SEND_DA_DEF, "AT+CMGS=\"030654321\"")
BYTE LC_CMGS_SEND_DA_DEF 19
STRING(C_CMGS_SENDING, "AT+CMGS=\"654321\"")
BYTE LC_CMGS_SENDING 16
STRING(C_CMGS_SPECIAL_SIGNS,
"\044\100\025\200\201\202\204\205\206\212\215\216\217\377\260\224\225\227\231\232\234\235\245")
BYTE LC_CMGS_SPECIAL_SIGNS 23
STRING(C_CMGS_HEX_SPECIAL_SIGNS, "00010203040506070809FFFeFdFcfbfaf00012345678")
BYTE LC_CMGS_HEX_SPECIAL_SIGNS 44
STRING(C_CMGS_SENDING_NO_VP, "AT+CMGS=18")
BYTE LC_CMGS_SENDING_NO_VP 10
STRING(M_CMT_PDU_SENT_NO_SCA_IN,"00010005818967F540F20941E19058341E9149")
BYTE LM_CMT_PDU_SENT_NO_SCA_IN 0x38
STRING(C_CMGS_SENDING_VP_REL, "AT+CMGS=19")
BYTE LC_CMGS_SENDING_VP_REL 10
STRING(C_CMGS_SENDING_VP_ABS, "AT+CMGS=25")
BYTE LC_CMGS_SENDING_VP_ABS 10
STRING(C_CMGS_INVALID, "AT+CMGS=AB")
BYTE LC_CMGS_INVALID 10
```

/*---"+CMGS"—(CMGS_T) */

```
STRING(C_CMGS_test, "AT+CMGS=?")
BYTE LC_CMGS_test 9

/* command: CMGS */
STRING(C_CMGS_ABCDEFGHI, "ABCDEFGHI")
BYTE LC_CMGS_ABCDEFGHI 9

/*message: CMGS */
STRING(M_CMGS_MSG_REF_1, "\136+CMGS: 1")
BYTE LM_CMGS_MSG_REF_1 8
STRING(M_CMGS_MSG_REF_2, "\136+CMGS: 2")
BYTE LM_CMGS_MSG_REF_2 8
STRING(M_CMGS_MSG_REF_3, "\136+CMGS: 3")
BYTE LM_CMGS_MSG_REF_3 8
STRING(M_CMT_PDU_SENT_NO_SCA_REL_IN, "00110005818967F540F2230941E19058341E9149")
BYTE LM_CMT_PDU_SENT_NO_SCA_REL_IN 40
STRING(M_CMT_PDU_SENT_NO_SCA_ABS_IN,
"00190005818967F540F2891070214365400941E19058341E9149")
BYTE LM_CMT_PDU_SENT_NO_SCA_ABS_IN 52
```

/*---"+CSCS"—(CSCS_S) */

```
STRING(C_CSCS_PCCP437, "AT+CSCS=\"PCCP437\"")
BYTE LC_CSCS_PCCP437 17
STRING(C_CSCS_HEX, "AT+CSCS=\"HEX\"")
BYTE LC_CSCS_HEX 13
```

/*---"+CMGC"—(CMGC_S) */

```
STRING(C_CMGC_INVALID, "AT+CMGC=AB")
BYTE LC_CMGC_INVALID 10
STRING(C_CMGC_SENDING, "AT+CMGC=2,3,64,2,\"654321\"")
BYTE LC_CMGC_SENDING 25
```

```
STRING(C_CMGC_NO_TEXT, "")
BYTE LC_CMGC_NO_TEXT 0
STRING(C_CMGC_SENDING_PDU_NN, "AT+CMGC=8")
BYTE LC_CMGC_SENDING_PDU_NN 9
STRING(C_CMGC_PDU_NN_IN, "04812143F50200400302000000")
BYTE LC_CMGC_PDU_NN_IN 26
STRING(C_CMGC_SENDING_PDU_NC, "AT+CMGC=13")
BYTE LC_CMGC_SENDING_PDU_NC 10
STRING(C_CMGC_PDU_NC_IN, "04812143F5020040030200000051234567890")
BYTE LC_CMGC_PDU_NC_IN 36
STRING(C_CMGC_SENDING_PDU_DN, "AT+CMGC=11")
BYTE LC_CMGC_SENDING_PDU_DN 10
STRING(C_CMGC_PDU_DN_IN, "04812143F5020040030205818967F500")
BYTE LC_CMGC_PDU_DN_IN 32
STRING(C_CMGC_SENDING_PDU_DC, "AT+CMGC=16")
BYTE LC_CMGC_SENDING_PDU_DC 10
STRING(C_CMGC_PDU_DC_IN, "04812143F5020040030205818967F5051234567890")
BYTE LC_CMGC_PDU_DC_IN 42

/*---"+CMGC"—( CMGC_T) */
STRING(C_CMGC_test, "AT+CMGC=?")
BYTE LC_CMGC_test 9

/*---"+CMGR"—( CMGR_T) */
STRING(C_CMGR_QUERY, "AT+CMGR=?")
BYTE LC_CMGR_QUERY 9

/* message: CMGC */
STRING(M_CMGC_MSG_REF_2, "\136+CMGC: 2")
BYTE LM_CMGC_MSG_REF_2 8
/*---"+CMGR"—( CMGR_T) */
STRING(C_CMGR_SIM_1, "AT+CMGR=1" )
BYTE LC_CMGR_SIM_1 9
STRING(C_CMGR_SIM_2, "AT+CMGR=2")
BYTE LC_CMGR_SIM_2 9
STRING(C_CMGR_SIM_3, "AT+CMGR=3")
BYTE LC_CMGR_SIM_3 9
STRING(C_CMGR_SIM_5, "AT+CMGR=5")
BYTE LC_CMGR_SIM_5 9
STRING(C_CMGR_SIM_9, "AT+CMGR=9")
BYTE LC_CMGR_SIM_9 9
STRING(C_CMGR_SIM_25, "AT+CMGR=25")
BYTE LC_CMGR_SIM_25 10
STRING(C_PLUS_CMGR_REC1_NORM, "AT+CMGR=1,0" )
BYTE LC_PLUS_CMGR_REC1_NORM 11
STRING(C_PLUS_CMGR_REC1_PREV, "AT+CMGR=1,1" )
BYTE LC_PLUS_CMGR_REC1_PREV 11
STRING(C_PLUS_CMGR_REC1_CHG, "AT+CMGR=1,2" )
BYTE LC_PLUS_CMGR_REC1_CHG 11
STRING(C_PLUS_CMGR_REC1_ERR, "AT+CMGR=1,11" )
BYTE LC_PLUS_CMGR_REC1_ERR 12

STRING(C_CMGR_INVALID, "AT+CMGR=AB")
BYTE LC_CMGR_INVALID 10

STRING(M_CMGR_ENTRY_25_PDU, "\136+CMGR: \"STO UNSENT\",,18")
```

```
BYTE LM_CMGR_ENTRY_25_PDU 23
STRING(M_CMGR_ENTRY_09_PDU, "\136+CMGR: \"STO SENT\",,18")
BYTE LM_CMGR_ENTRY_09_PDU 21
STRING(M_CMGR_ENTRY_05_PDU, "\136+CMGR: \"REC UNREAD\",,24")
BYTE LM_CMGR_ENTRY_05_PDU 23
STRING(M_CMGR_ENTRY_03_PDU, "\136+CMGR: \"REC READ\",,24")
BYTE LM_CMGR_ENTRY_03_PDU 21

STRING(M_CMGR_SIM_2, "\136+CMGR: \"STO UNSENT\",\"98765\",,129,1,64,242,,\"12345\",129,9")
BYTE LM_CMGR_SIM_2 56
STRING(M_CMT_PDU_STO_SENT_REL, "\13604812143F511AA05818967F540F2230941E19058341E9149")
BYTE LM_CMT_PDU_STO_SENT_REL 48
STRING(M_CMT_PDU_REC_READ, "\13604812143F504068189674540008910702143654009 41E19058341E9149")
BYTE LM_CMT_PDU_REC_READ 0x3A
STRING(M_CMT_PDU_STO_UNSENT_REL, "\13604812143F511FF05818967F540F2230941E19058341E9149")
BYTE LM_CMT_PDU_STO_UNSENT_REL 48

/*
Indication:     +CMTI
                indicate record number of new MT-SM
*/
STRING(C_PLUS_CMTI_SIM_REC1, "+CMTI: \"SM\",1")
BYTE LC_PLUS_CMTI_SIM_REC1 13

/*---"+CSCB"—(CSCB_T) */
// Command:
STRING(C_CSCB_T, "AT+CSCB=?" )
BYTE LC_CSCB_T 10
// Message:
STRING(M_CSCB_T, "+CSCB: (0,1)" )
BYTE LM_CSCB_T 12

/*---"+CSCB"—(CSCB_Q) */
// Command:
STRING(C_CSCB_Q, "AT+CSCB?" )
BYTE LC_CSCB_Q 9
// Message:
STRING(M_CSCB_Q0, "+CSCB: 0,\"\",\"\"" )
STRING(M_CSCB_Q1, "+CSCB: 0,\"0-20\",\"0-20\"" )
STRING(M_CSCB_Q2, "+CSCB: 0,\"0,2,5\",\"0-20\"" )
STRING(M_CSCB_Q3, "+CSCB: 1,\"\",\"\"" )
STRING(M_CSCB_Q4, "+CSCB: 1,\"0-20\",\"0-20\"" )
BYTE LM_CSCB_Q0 14
BYTE LM_CSCB_Q1 22
BYTE LM_CSCB_Q2 23
STRING(M_CSCB_TEST_ACC, "\136+CSCB: (0)")
BYTE LM_CSCB_TEST_ACC 10
STRING(M_CSCB_QUERY_1V, "\136+CSCB: 0,\"17\",\"\"")
BYTE LM_CSCB_QUERY_1V 16
STRING(M_CSCB_QUERY_1R, "\136+CSCB: 0,\"1-41\",\"\"")
BYTE LM_CSCB_QUERY_1R 18
STRING(M_CSCB_QUERY_2R, "\136+CSCB: 0,\"1-41,288-863\",\"\"")
BYTE LM_CSCB_QUERY_2R 26
STRING(M_CSCB_QUERY_5R, "\136+CSCB: 0,\"1-41,48,81,288-863,100-149\",\"\"")
BYTE LM_CSCB_QUERY_5R 40
STRING(M_CSCB_QUERY_10R, "\136+CSCB: 0,\"1-41,48,81,288-863,100-149,1025,1280-1535,1999,4095-8191,32768-32771\",\"\"")
BYTE LM_CSCB_QUERY_10R 82
```

```
STRING(M_CSCB_QUERY_2V, "\136+CSCB: 0,\"25,2000\",\"\"")
BYTE LM_CSCB_QUERY_2V 21
STRING(M_CSCB_QUERY_DEF, "\136+CSCB: 0,\"\",\"\"")
BYTE LM_CSCB_QUERY_DEF 14
STRING(M_CSCB_QUERY_1R_2V, "\136+CSCB: 0,\"1-41,25,2000\",\"\"")
BYTE LM_CSCB_QUERY_1R_2V 26
STRING(M_CSCB_QUERY_2R_2V, "\136+CSCB: 0,\"1-41,288-863,25,2000\",\"\"")
BYTE LM_CSCB_QUERY_2R_2V 34
STRING(M_CSCB_QUERY_5R_2V, "\136+CSCB: 0,\"1-41,48,81,288-863,100-149,25,2000\",\"\"")
BYTE LM_CSCB_QUERY_5R_2V 48
STRING(C_CSCB_ACCEPT_MIDS_ON, "AT+CSCB=0,\"3,7,11-13,14,15,16,17,18-20\",\"0,1,2,3,4-5,7,8,9-11\"")
BYTE LC_CSCB_ACCEPT_MIDS_ON 62
STRING(M_CSCB_QUERY, "\136+CSCB: 0,\"3,7,11-13,14,15,16,17,18-20\",\"0,1,2,3,4-5,7,8,9-11\"")
BYTE LM_CSCB_QUERY 61
STRING(M_CSCB_QUERY_SIM, "\136+CSCB: 0,\"3,7,11-13,14,15,16,17,18,19,20\",\"0,1,2,3,4-5,7,8,9-11\"")
BYTE LM_CSCB_QUERY_SIM 64
STRING(M_CSCB_QUERY_SGL4, "\136+CSCB: 0,\"3,7,13,1005\",\"\"")
BYTE LM_CSCB_QUERY_SGL4 25
```

/*---"+CSCB"—(CSCB_S) */

// Command:

```
STRING(C_CSCB_IGNORE_ALL,"AT+CSCB=1,\"\",\"\"")
BYTE LC_CSCB_IGNORE_ALL 15
STRING(C_CSCB_SETTING,
"AT+CSCB=1,\"1-23,456,789-12345,61234-61235,9,10,11,12,13,14\",\"1-23,456,789-12345,61234-61235,9,10,11,12,13,14\"")
BYTE LC_CSCB_SETTING 109
STRING(C_CSCB_ACCEPT_MID_SGL4, "AT+CSCB=0,\"3,7,13,1005\"")
BYTE LC_CSCB_ACCEPT_MID_SGL4 23
STRING(C_CSCB_ACCEPT_MID_SGL7, "AT+CSCB=0,\"5,9,131-134,1005\"")
BYTE LC_CSCB_ACCEPT_MID_SGL7 28

STRING(C_CSCB_S0, "AT+CSCB=0,\"0-20\",\"0-20\"" )
STRING(C_CSCB_S1, "AT+CSCB=0,\"0,2,5\",\"0-20\"" )
STRING(C_CSCB_S2, "AT+CSCB=1" )
STRING(C_CSCB_S3, "AT+CSCB=1,\"0-20\",\"0-20\"" )
STRING(C_CSCB_S4, "AT+CSCB: 2" )
STRING(C_CSCB_S5, "AT+CSCB: 0,\"0-30\",\"20-50\"" )
BYTE LC_CSCB_S0 24
BYTE LC_CSCB_S1 25
BYTE LC_CSCB_S2 10

/*
Command:        %NRG
                network registration
*/
STRING(C_PLUS_NRG_FULL_AUTO, "AT%NRG=0,0 " )
BYTE LC_PLUS_NRG_FULL_AUTO 10
STRING(C_PLUS_NRG_FULL_MAN, "AT%NRG=1,0,1,\"D1\" " )

BYTE LC_PLUS_NRG_FULL_MAN 17
STRING(C_PLUS_NRG_LIM, "AT%NRG=,1 " )

BYTE LC_PLUS_NRG_LIM 9
STRING(C_PLUS_NRG_NO, "AT%NRG=,2 " )

BYTE LC_PLUS_NRG_NO 9
STRING(C_PLUS_NRG_SET_AUTO, "AT%NRG=0,3 " )
```

```
BYTE LC_PLUS_NRG_SET_AUTO 10
STRING(C_PLUS_NRG_SET_MAN, "AT%NRG=1,3 " )

BYTE LC_PLUS_NRG_SET_MAN 10
STRING(C_PLUS_NRG_QUERY, "AT%NRG? " )
BYTE LC_PLUS_NRG_QUERY 7

/* message: CMTI */
STRING(M_CMTI_SM_01, "\136+CMTI: \"SM\",1")
BYTE LM_CMTI 13
STRING(M_CMT_ABCDEFGHI, "\136ABCDEFGHI")
BYTE LM_CMT_ABCDEFGHI 9

/*---"+CREG"—(CREG_T) */
//   Command:
STRING(C_CREG_T, "AT+CREG=?" )
BYTE LC_CREG_T 10
//   Message:
STRING(M_CREG_T, "+CREG: (0,1)" )
BYTE LM_CREG_T 12

/*---"+CREG"—(CREG_Q) */
//   Command:
STRING(C_CREG_Q, "AT+CREG?" )
BYTE LC_CREG_Q 9
//   Message:
STRING(M_CREG_Q0, "+CREG: 0,0" )
STRING(M_CREG_Q1, "+CREG: 1,0" )
BYTE LM_CREG_Q 10

/*---"+CREG"—(CREG_S) */
//   Command:
STRING(C_CREG_S0, "AT+CREG=0" )
STRING(C_CREG_S1, "AT+CREG=1" )
STRING(C_CREG_S9, "AT+CREG=2" )
BYTE LC_CREG_S 10

/*---"+COPN"—(COPN_T) */
//   Command:
STRING(C_COPN_T, "AT+COPN=?" )
BYTE LC_COPN_T 10

/*
Message:        %NRG
                network registration
*/

STRING(M_PLUS_NRG_AUTO_FULL_LONG_D1, "%NRG: 0,0,0,0,\"D1-TELEKOM\"" )
BYTE LM_PLUS_NRG_AUTO_FULL_LONG_D1 26
STRING(M_PLUS_NRG_MAN_FULL_SHORT_D1, "%NRG: 0,0,1,0,\"D1\"" )

BYTE LM_PLUS_NRG_MAN_FULL_SHORT_D1 18
STRING(M_PLUS_NRG_AUTO_LIM_SHORT_NONE, "%NRG: 0,1,,1" )

BYTE LM_PLUS_NRG_AUTO_LIM_SHORT_NONE 12
STRING(M_PLUS_NRG_AUTO_NO_LONG_NONE, "%NRG: 0,2,,2" )

BYTE LM_PLUS_NRG_AUTO_NO_LONG_NONE 12

/*
Message:        +COPS
```

```
                    operator selection
*/
STRING(M_PLUS_COPS_LST, "+COPS: (1,\"D1-TELEKOM\",\"D1\",\"26201\"),(1,\"D-ZWEI PRIVAT\",\"D-ZWEI\",\"26202\"),(1,\"E-Plus\",\"E-Plus\",\"26203\")" )
BYTE LM_PLUS_COPS_LST 103

/*
Command:            +COLP
                    Calling line presentation mode
*/
STRING(C_PLUS_COLP_ON, "AT+COLP=1 " )
BYTE LC_PLUS_COLP_ON 9

/*
Command:            +CLIP
                    Calling line presentation mode
*/
STRING(C_PLUS_CLIP_QUERY, "AT+CLIP? " )
BYTE LC_PLUS_CLIP_QUERY 8

/*
Message:            +CLIP
                    Calling line presentation mode
*/
STRING(M_PLUS_CLIP_PROV, "\136+CLIP: 0,1" )
BYTE LM_PLUS_CLIP_PROV 10

/*
Command:            +CLIR
                    Calling line restriction mode
*/
STRING(C_PLUS_CLIR_SUP, "AT+CLIR=2 " )
BYTE LC_PLUS_CLIR_SUP 9

STRING(C_PLUS_CLIR_QUERY, "AT+CLIR? " )
BYTE LC_PLUS_CLIR_QUERY 8

STRING(C_PLUS_CLIR_Read, "AT+CLIR=? " )
BYTE LC_PLUS_CLIR_Read 9

STRING(C_CLIR_COLP_S, "AT+CLIR=2;+COLP=1" )
BYTE LC_CLIR_COLP_S 18
/*
Massage:            +CLIR
                    Calling line restriction mode
*/
STRING(M_PLUS_CLIR_Read,"+CLIR: (0,1,2)" )
BYTE LM_PLUS_CLIR_Read 14

STRING(M_PLUS_CLIR_PVTMAL, "\136+CLIR: 0,4" )
BYTE LM_PLUS_CLIR_PVTMAL 10

/*
Command:            +CHLD
                    Call on hold
*/
```

```
STRING(C_PLUS_CHLD_0, "AT+CHLD=0 " )
BYTE LC_PLUS_CHLD_0 9
STRING(C_PLUS_CHLD_1, "AT+CHLD=1 " )
BYTE LC_PLUS_CHLD_1 9
STRING(C_PLUS_CHLD_2, "AT+CHLD=2 " )
BYTE LC_PLUS_CHLD_2 9
STRING(C_PLUS_CHLD_21, "AT+CHLD=21 " )
BYTE LC_PLUS_CHLD_21 10
STRING(C_PLUS_CHLD_12, "AT+CHLD=12 " )
BYTE LC_PLUS_CHLD_12 10
STRING(C_PLUS_CHLD_3, "AT+CHLD=3 " )
BYTE LC_PLUS_CHLD_3 9
STRING(C_PLUS_CHLD_4, "AT+CHLD=4 " )
BYTE LC_PLUS_CHLD_4 9
STRING(C_PLUS_CHLD_5, "AT+CHLD=5 " )
BYTE LC_PLUS_CHLD_5 9

/*--- "+CHUP" (CHUP_T) ---*/
//    Commqand:
STRING(C_CHUP_T, "AT+CHUP=?" )
BYTE LC_CHUP_T 10
STRING(C_CHUP_Q, "AT+CHUP?" )
BYTE LC_CHUP_Q 9

/*
Command:        +FHS
                query FAX hangup status
*/
STRING(C_PLUS_FHS, "AT+FHS? " )
BYTE LC_PLUS_FHS 7

/*
Command:        +FCLASS
                FAX class
*/
STRING(C_PLUS_FCLASS_0, "AT+FCLASS=0" )
BYTE LC_PLUS_FCLASS_0 11

/*
Command:        +VTS
                send DTMF
*/
STRING(C_PLUS_VTS_1, "AT+VTS=1,0" )
BYTE LC_PLUS_VTS_1 10
STRING(C_PLUS_VTS_A, "AT+VTS=a" )
BYTE LC_PLUS_VTS_A 8
STRING(C_PLUS_VTS_STAR, "AT+VTS=*" )
BYTE LC_PLUS_VTS_STAR 8
STRING(C_PLUS_VTS_HASH, "AT+VTS=#" )
BYTE LC_PLUS_VTS_HASH 8

/*
message:        +COLP
                calling line presentation
*/
```

```
STRING(M_PLUS_COLP_NUM, "+COLP: \"03039094223\",129" )
BYTE LM_PLUS_COLP_NUM 24
STRING(M_PLUS_COLP_EMERG, "+COLP: \"112\",129" )
BYTE LM_PLUS_COLP_EMERG 16
STRING(M_PLUS_COLP_NUM_2, "+COLP: \"03039094444\",129" )
BYTE LM_PLUS_COLP_NUM_2 24

/*
message:        +COPS
                operator selection
*/
STRING(M_PLUS_COPS_AUT_LNG_26201, "+COPS: 0,0,\"D1-TELEKOM\"" )
BYTE LM_PLUS_COPS_AUT_LNG_26201 23

STRING(M_PLUS_COPS_AUT_NUM_26201, "+COPS: 0,2,\"26201\"" )
BYTE LM_PLUS_COPS_AUT_NUM_26201 18

STRING(M_PLUS_COPS_AUT_LNG_55555, "+COPS: 0,0,\"ZWANZIG TELEKOM @COM\"" )
BYTE LM_PLUS_COPS_AUT_LNG_55555 33

/*
message:        +CLAC
                List all AT-commands
*/
STRING(M_CLAC1, "AT+COPS" )

BYTE LM_CLAC1 7

STRING(M_CLAC2, "AT+CPOL" )

BYTE LM_CLAC2 7

STRING(M_CLAC3, "AT+COPN" )

BYTE LM_CLAC3 7

STRING(M_CLAC4, "AT+CFUN" )

BYTE LM_CLAC4 7

STRING(M_CLAC5, "AT+CPIN" )

BYTE LM_CLAC5 7

/*
message:        +CREG
                network registration
*/
STRING(M_PLUS_CREG_NO, "AT+CREG: 0" )
BYTE LM_PLUS_CREG_NO 10
/*
Command:        +CSNS
                single numbering scheme
*/
STRING(C_PLUS_CSNS_VAF_V, "AT+CSNS=5 " )
BYTE LC_PLUS_CSNS_VAF_V 9
STRING(C_PLUS_CSNS_VFD, "AT+CSNS=7 " )

BYTE LC_PLUS_CSNS_VFD 9
STRING(C_PLUS_CSNS_QUERY, "AT+CSNS? " )

BYTE LC_PLUS_CSNS_QUERY 8
```

```
/*
Message:        +CSNS
                single numbering scheme
*/
STRING(M_PLUS_CSNS_0, "+CSNS: 0" )
BYTE LM_PLUS_CSNS_0 8
STRING(M_PLUS_CSNS_5, "+CSNS: 5" )
BYTE LM_PLUS_CSNS_5 8

/*
Command:        +COPN
                read operator names
*/
STRING(C_PLUS_COPN, "AT+COPN" )
BYTE LC_PLUS_COPN 7

/*
Command:        +CPOL
                Preferred operator list
*/
STRING(C_PLUS_CPOL_FRMT_LONG, "AT+CPOL=,0" )
BYTE LC_PLUS_CPOL_FRMT_LONG 10
STRING(C_PLUS_CPOL_FRMT_SHRT, "AT+CPOL=,1" )
BYTE LC_PLUS_CPOL_FRMT_SHRT 10
STRING(C_PLUS_CPOL_FRMT_NUM, "AT+CPOL=,2" )
BYTE LC_PLUS_CPOL_FRMT_NUM 10
STRING(C_PLUS_CPOL_Q, "AT+CPOL?" )
BYTE LC_PLUS_CPOL_Q 8
STRING(C_PLUS_CPOL_T, "AT+CPOL=?" )
BYTE LC_PLUS_CPOL_T 9
STRING(C_PLUS_CPOL_DEL_1, "AT+CPOL=1" )
BYTE LC_PLUS_CPOL_DEL_1 9
STRING(C_PLUS_CPOL_DEL_2, "AT+CPOL=2" )
BYTE LC_PLUS_CPOL_DEL_2 9
STRING(C_PLUS_CPOL_OVR_3, "AT+CPOL=5,2,\"28401\"" )
BYTE LC_PLUS_CPOL_OVR_3 23
STRING(C_PLUS_CPOL_NEW_3, "AT+CPOL=,2,\"28401\"" )
BYTE LC_PLUS_CPOL_NEW_3 18
STRING(C_PLUS_CPOL_INS_3, "AT+CPOL=3,2,\"28401\"" )
BYTE LC_PLUS_CPOL_INS_3 19
STRING(C_PLUS_CPOL_INS_1, "AT+CPOL=1,2,\"28401\"" )
BYTE LC_PLUS_CPOL_INS_1 19
STRING(C_PLUS_CPOL_CHG, "AT+CPOL=1" )
BYTE LC_PLUS_CPOL_CHG 9

/*
Message:        +CPOL
                Preferred operator list
*/
STRING(M_PLUS_CPOL_T, "+CPOL: (1-9),(0-2)" )
BYTE LM_PLUS_CPOL_T 18
STRING(M_PLUS_CPOL_PLMN1_NUM, "+CPOL: 2,2,\"26201\"" )
BYTE LM_PLUS_CPOL_PLMN1_NUM 18
STRING(M_PLUS_CPOL_PLMN1_LNG, "+CPOL: 2,0,\"D1-TELEKOM\"" )
```

```
BYTE LM_PLUS_CPOL_PLMN1_LNG 23
STRING(M_PLUS_CPOL_PLMN1_SHRT, "+CPOL: 2,1,\"D1\"" )
BYTE LM_PLUS_CPOL_PLMN1_SHRT 15
STRING(M_PLUS_CPOL_PLMN1_CMP, "+CPOL: 1,0,\"D1-TELEKOM\"" )
BYTE LM_PLUS_CPOL_PLMN1_CMP 23
STRING(M_PLUS_CPOL_PLMN1_CHG, "+CPOL: 5,0,\"D1-TELEKOM\"" )
BYTE LM_PLUS_CPOL_PLMN1_CHG 23
STRING(M_PLUS_CPOL_PLMN1_INS, "+CPOL: 2,0,\"D1-TELEKOM\"" )
BYTE LM_PLUS_CPOL_PLMN1_INS 23
STRING(M_PLUS_CPOL_PLMN2_NUM, "+CPOL: 3,2,\"26202\"" )
BYTE LM_PLUS_CPOL_PLMN2_NUM 18
STRING(M_PLUS_CPOL_PLMN2_LNG, "+CPOL: 3,0,\"D-ZWEI PRIVAT\"" )
BYTE LM_PLUS_CPOL_PLMN2_LNG 26
STRING(M_PLUS_CPOL_PLMN2_SHRT, "+CPOL: 3,1,\"D-ZWEI\"" )
BYTE LM_PLUS_CPOL_PLMN2_SHRT 19
STRING(M_PLUS_CPOL_PLMN2_CMP, "+CPOL: 2,0,\"D-ZWEI PRIVAT\"" )
BYTE LM_PLUS_CPOL_PLMN2_CMP 26
STRING(M_PLUS_CPOL_PLMN2_DLT, "+CPOL: 1,0,\"D-ZWEI PRIVAT\"" )
BYTE LM_PLUS_CPOL_PLMN2_DLT 26
STRING(M_PLUS_CPOL_PLMN2_INS, "+CPOL: 3,0,\"D-ZWEI PRIVAT\"" )
BYTE LM_PLUS_CPOL_PLMN2_INS 26
STRING(M_PLUS_CPOL_PLMN3_NUM, "+CPOL: 5,2,\"26203\"" )
BYTE LM_PLUS_CPOL_PLMN3_NUM 18
STRING(M_PLUS_CPOL_PLMN3_LNG, "+CPOL: 5,0,\"E-Plus\"" )
BYTE LM_PLUS_CPOL_PLMN3_LNG 19
STRING(M_PLUS_CPOL_PLMN3_SHRT, "+CPOL: 5,1,\"E-Plus\"" )
BYTE LM_PLUS_CPOL_PLMN3_SHRT 19
STRING(M_PLUS_CPOL_PLMN3_CMP, "+CPOL: 3,0,\"E-Plus\"" )
BYTE LM_PLUS_CPOL_PLMN3_CMP 19
STRING(M_PLUS_CPOL_PLMN3_DLT, "+CPOL: 2,0,\"E-Plus\"" )
BYTE LM_PLUS_CPOL_PLMN3_DLT 19
STRING(M_PLUS_CPOL_PLMN3_INS, "+CPOL: 4,0,\"E-Plus\"" )
BYTE LM_PLUS_CPOL_PLMN3_INS 19
STRING(M_PLUS_CPOL_PLMN4_NUM, "+CPOL: 6,2,\"26207\"" )
BYTE LM_PLUS_CPOL_PLMN4_NUM 18
STRING (M_PLUS_CPOL_PLMN4_LNG, "+CPOL: 6,0,\"D Interkom\"" )
BYTE LM_PLUS_CPOL_PLMN4_LNG 23
STRING(M_PLUS_CPOL_PLMN4_SHRT, "+CPOL: 6,1,\"Ik\"" )
BYTE LM_PLUS_CPOL_PLMN4_SHRT 15
STRING(M_PLUS_CPOL_PLMN4_CMP, "+CPOL: 4,0,\"D Interkom\"" )
BYTE LM_PLUS_CPOL_PLMN4_CMP 23
STRING(M_PLUS_CPOL_PLMN4_DLT, "+CPOL: 3,0,\"D Interkom\"" )
BYTE LM_PLUS_CPOL_PLMN4_DLT 23
STRING(M_PLUS_CPOL_PLMN4_INS, "+CPOL: 5,0,\"D Interkom\"" )
BYTE LM_PLUS_CPOL_PLMN4_INS 23
STRING(M_PLUS_CPOL_PLMN5_NUM, "+CPOL: 8,2,\"23433\"" )
BYTE LM_PLUS_CPOL_PLMN5_NUM 18
STRING(M_PLUS_CPOL_PLMN5_LNG, "+CPOL: 8,0,\"ORANGE\"" )
BYTE LM_PLUS_CPOL_PLMN5_LNG 19
STRING(M_PLUS_CPOL_PLMN5_SHRT, "+CPOL: 8,1,\"ORANGE\"" )
BYTE LM_PLUS_CPOL_PLMN5_SHRT 19
STRING(M_PLUS_CPOL_PLMN5_CMP, "+CPOL: 5,0,\"ORANGE\"" )
BYTE LM_PLUS_CPOL_PLMN5_CMP 19
STRING(M_PLUS_CPOL_PLMN5_DLT, "+CPOL: 4,0,\"ORANGE\"" )
BYTE LM_PLUS_CPOL_PLMN5_DLT 19
STRING(M_PLUS_CPOL_PLMN5_INS, "+CPOL: 6,0,\"ORANGE\"" )
BYTE LM_PLUS_CPOL_PLMN5_INS 19
STRING(M_PLUS_CPOL_PLMN5_CHG, "+CPOL: 1,0,\"ORANGE\"" )
```

```
BYTE LM_PLUS_CPOL_PLMN5_CHG 19
STRING(M_PLUS_CPOL_PLMN_OVR_LNG, "+CPOL: 5,0,\"CITRON GSM BG\"" )
BYTE LM_PLUS_CPOL_PLMN_OVR_LNG 26
STRING(M_PLUS_CPOL_PLMN_OVR_NUM, "+CPOL: 5,2,\"28401\"" )
BYTE LM_PLUS_CPOL_PLMN_OVR_NUM 18
STRING(M_PLUS_CPOL_PLMN_NEW_LNG, "+CPOL: 1,0,\"M-TEL GSM BG\"" )
BYTE LM_PLUS_CPOL_PLMN_NEW_LNG 25
STRING(M_PLUS_CPOL_PLMN_NEW_NUM, "+CPOL: 1,2,\"28401\"" )
BYTE LM_PLUS_CPOL_PLMN_NEW_NUM 18
STRING(M_PLUS_CPOL_PLMN_NEW_CMP, "+CPOL: 6,0,\"M-TEL GSM BG\"" )
BYTE LM_PLUS_CPOL_PLMN_NEW_CMP 25
STRING(M_PLUS_CPOL_PLMN_INS_LNG, "+CPOL: 3,0,\"M-TEL GSM BG\"" )
BYTE LM_PLUS_CPOL_PLMN_INS_LNG 25
STRING(M_PLUS_CPOL_PLMN_INS_1_LNG, "+CPOL: 1,0,\"M-TEL GSM BG\"" )
BYTE LM_PLUS_CPOL_PLMN_INS_1_LNG 25

/*
Message:        +CRSM
                restricted SIM access
*/
STRING(C_PLUS_CRSM_EFecc, "AT+CRSM=176,28599,0,0,12" )
BYTE LC_PLUS_CRSM_EFecc 24
STRING(M_PLUS_CRSM_EFecc, "+CRSM: 144,0,11F2FF99F9FF214365FFFFFF" )
BYTE LM_PLUS_CRSM_EFecc 37
STRING(C_PLUS_CRSM_EFadn, "AT+CRSM=178,28474,1,5,20" )
BYTE LC_PLUS_CRSM_EFadn 24
STRING(M_PLUS_CRSM_EFadn, "+CRSM: 144,0,0123456789ABCDEF0123456789ABCDEF01234567" )
BYTE LM_PLUS_CRSM_EFadn 53
STRING(C_PLUS_CRSM_EFacm, "AT+CRSM=214,28473,0,0,3,123456" )
BYTE LC_PLUS_CRSM_EFacm 30
STRING(M_PLUS_CRSM_EFacm, "+CRSM: 144,0" )
BYTE LM_PLUS_CRSM_EFacm 12
STRING(C_PLUS_CRSM_EFsms, "AT+CRSM=220,28476,1,5,10,12345678901234567890" )
BYTE LC_PLUS_CRSM_EFsms 45
STRING(M_PLUS_CRSM_EFsms, "+CRSM: 144,0" )
BYTE LM_PLUS_CRSM_EFsms 12
STRING(C_PLUS_CRSM_GetRes, "AT+CRSM=192,28475" )
BYTE LC_PLUS_CRSM_GetRes 17
STRING(M_PLUS_CRSM_GetRes, "+CRSM: 144,0,12345678901234567890" )
BYTE LM_PLUS_CRSM_GetRes 33
STRING(C_PLUS_CRSM_Stat, "AT+CRSM=242" )
BYTE LC_PLUS_CRSM_Stat 17
STRING(M_PLUS_CRSM_Stat, "+CRSM: 146,144" )
BYTE LM_PLUS_CRSM_Stat 14
STRING(M_PLUS_CRSM_PIN, "+CRSM: 152,4" )
BYTE LM_PLUS_CRSM_PIN 12
STRING(M_PLUS_CRSM_FATAL, "+CRSM: 111,0" )
BYTE LM_PLUS_CRSM_FATAL 12
STRING(M_PLUS_CRSM_INV, "+CRSM: 152,64" )
BYTE LM_PLUS_CRSM_INV 13

/*
message:        RING
                alerting
*/
STRING(M_RING, "RING" )
BYTE LM_RING 4
```

```
/*
message:        +FHS
                FAX hangup status code
*/
STRING(M_PLUS_FHS_11, "+FHS:11" )
BYTE LM_PLUS_FHS_11 7

/*
Command:        %CCBS
                Call completion to busy subscriber
*/
STRING(C_PERCENT_CCBS_ENA, "AT%CCBS=1" )
BYTE LC_PERCENT_CCBS_ENA 9

/*
message:        %CCBS
                CCBS indications
*/
STRING(M_PERCENT_CCBS_PSSBL, "%CCBS: 1" )
BYTE LM_PERCENT_CCBS_PSSBL 8
STRING(M_PERCENT_CCBS_PSSBL_TMO, "%CCBS: 0" )
BYTE LM_PERCENT_CCBS_PSSBL_TMO 8
STRING(M_PERCENT_CCBS_REG_V, "%CCBS: 2,1,\"493039094223\",145,,,1" )
BYTE LM_PERCENT_CCBS_REG_V 33
STRING(M_PERCENT_CCBS_RECALL, "%CCBS: 3,1,\"493039094444\",145,,,1,3" )
BYTE LM_PERCENT_CCBS_RECALL 35
STRING(M_PERCENT_CCBS_RCL_TMO, "%CCBS: 4" )
BYTE LM_PERCENT_CCBS_RCL_TMO 8

/*Command:      misc
*/
STRING(C_PLUS_MISC, "ATE0Q0V1X4S0=0S2=2=43" )
BYTE LC_PLUS_MISC 21

/*Test Command
*/
STRING(C_PERCENT_TEST_0, "AT%test=0" )

BYTE LC_PERCENT_TEST_0 9
STRING(C_PERCENT_TEST_2, "AT%test=2" )

BYTE LC_PERCENT_TEST_2 9
STRING(C_PERCENT_TEST_5, "AT%test=5" )

BYTE LC_PERCENT_TEST_5 9
STRING(C_PERCENT_TEST_6, "AT%test=6" )

BYTE LC_PERCENT_TEST_6 9
STRING(C_PERCENT_TEST_30, "AT%test=30,860E,\"0102030405060708090a0b0c0d0e0f\"" )

BYTE LC_PERCENT_TEST_30 48

/*Test Command/Message: SIM
*/
STRING(C_ACT, "%test=\"sim\",\"act\" " )
STRING(C_SYNC, "%test=\"sim\",\"sync\" " )
STRING(C_VRFY, "%test=\"sim\",\"vrfy pin=1234 type=1\" " )
```

```
STRING(M_ACT_CRD_BLK, "test: sim activated ec=0011"  )
STRING(M_ACT_INV_CRD, "test: sim activated ec=0013"  )
STRING(M_ACT_FTL_ERR, "test: sim activated ec=FFFF"  )
STRING(M_INS, "test: sim inserted" )
STRING(M_SYNC, "test: sim synchronized"  )
STRING(M_VRFD, "test: pin verified"  )

/*Test Command/Message: MM
*/
STRING(C_REG, "%test=\"mm\",\"reg\" ")
STRING(M_REG,"test: registered")
STRING(C_REGMD_AUTO, "%test=\"mm\",\"mode=0\" " )
STRING(C_REGMD_MAN, "%test=\"mm\",\"mode=1\" " )

STRING(C_PERCENT_TEST_FD_TST, "AT%test=10" )
BYTE LC_PERCENT_TEST_FD_TST 10
STRING(C_PERCENT_TEST_FAX_DATA, "AT%test=12,1,\"12AB34CD56EF78\"" )
BYTE LC_PERCENT_TEST_FAX_DATA 31
STRING(C_PERCENT_TEST_FAX_DLE, "AT%test=13,113" )
BYTE LC_PERCENT_TEST_FAX_DLE 14
STRING(C_PERCENT_TEST_FAX_SIM, "AT%test=20" )
BYTE LC_PERCENT_TEST_FAX_SIM 10


/* chipcard identification field */
BEGINARRAY (F_ICC, 10)    0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x07, 0x08, 0x09, 0x00
ENDARRAY

/* mobile country code field */
BEGINARRAY (F_MCC_NONE, 3) 0x0f, 0x0f, 0x0f
ENDARRAY

BEGINARRAY (F_MCC_000, 3) 0x00, 0x00, 0x00
ENDARRAY

BEGINARRAY (F_MCC_123, 3) 0x01, 0x02, 0x03
ENDARRAY

BEGINARRAY (F_MCC_262, 3) 0x02, 0x06, 0x02
ENDARRAY

BEGINARRAY (F_MCC_555, 3) 0x05, 0x05, 0x05
ENDARRAY

BEGINARRAY (F_FRB_PLMN_LST, 7) 0x00, 0x00, 0x00, 0x01, 0x00, 0x00, 0x00
ENDARRAY

BEGINARRAY (F_RXL_PLMN_LST, 7) 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
ENDARRAY

/* SIM Service Table with Nr. 4 */
```

```
BEGINARRAY (F_SIM_SRV_4, 10) 0xC0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
ENDARRAY

/* SIM Service Table with Nr. 4, SMSP */
BEGINARRAY (F_SIM_SRV_4_12, 10) 0xC0, 0x00, 0xC0, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
ENDARRAY

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

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

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

/* EF(CBMIR), 1 entry, 1 range */
BEGINARRAY (CBMIR_1E_1R, L_CBMIR_1)
0x00, 0x01, 0x00, 0x29
ENDARRAY

/* EF(CBMIR), 2 entries, 1 range */
BEGINARRAY (CBMIR_2E_1R2, L_CBMIR_2)
0xFF, 0xFF, 0xFF, 0xFF,
0x00, 0x01, 0x00, 0x29
ENDARRAY

/* EF(CBMIR), 2 entries, 2 ranges */
BEGINARRAY (CBMIR_2E_2R, L_CBMIR_2)
0x00, 0x01, 0x00, 0x29,
0x01, 0x20, 0x03, 0x5F
ENDARRAY

/* mobile network code field */
BEGINARRAY (F_MNC_NONE, 2) 0x0f, 0x0f
ENDARRAY

BEGINARRAY (F_MNC_45, 2) 0x04, 0x05
ENDARRAY

BEGINARRAY (F_MNC_00, 2) 0x00, 0x00
ENDARRAY

BEGINARRAY (F_MNC_01, 2) 0x00, 0x01
ENDARRAY

BEGINARRAY (F_MNC_02, 2) 0x00, 0x02
ENDARRAY

BEGINARRAY (F_MNC_03, 2) 0x00, 0x03
ENDARRAY

BEGINARRAY (F_MNC_55, 2) 0x05, 0x05
ENDARRAY
```

```
BEGINARRAY (SIM_STATUS_DEF, 10) /*128,*/ 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
ENDARRAY

BEGINARRAY (ME_STATUS_DEF, 10) /*128,*/ 0, 0, 0, 0, 0, 0, 0, 0, 0, 0
ENDARRAY

BEGINARRAY(A_DEST_ADDR_030654321, 9)
        0x00,0x03,0x00,0x06,0x05,0x04,0x03,0x02,0x01
ENDARRAY

BEGIN_PSTRUCT("dest_addr", DA_030654321)
                SET_COMP("ntype",TON_UNKNOWN)
                SET_COMP("nplan", NPI_ISDN_TEL_NUMB_PLAN)
                SET_COMP("no_bcd", NUM_9)
                SET_COMP("bcd", A_DEST_ADDR_030654321)
ENDSTRUCT


/* EF(CBMIR), 1 entry, 1 value */
BEGINARRAY (CBMIR_1E_1V, L_CBMIR_1)
0x00, 0x11, 0x00, 0x11
ENDARRAY

BEGINARRAY (SMSP_CORRECT_ALPHA_ID_R, L_SMSP_ALPHA_ID)
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xF1,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0x04, 0x81, 0x21, 0x43, 0xF5, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0x47,
0x00,
0xFF
ENDARRAY

/* SMS parameters with minimum length, without SCA */
BEGINARRAY (SMSP_WO_SCA, L_SMSP_MIN)
0xE2,
0x05, 0x81, 0x21, 0x43, 0xF5, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0x06, 0x81, 0x89, 0x67, 0x45, 0x23, 0xF1, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0x40,
0xF2,
0x39
ENDARRAY

/* SMS parameters with minimum length, without DA, PID */
BEGINARRAY (SMSP_WO_DA_PID, L_SMSP_MIN)
0xE5,
0x05, 0x81, 0x21, 0x43, 0xF5, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0x06, 0x81, 0x89, 0x67, 0x45, 0x23, 0xF1, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF,
0xF2,
0x39
ENDARRAY

/* SMS parameters with minimum length, without DA, DCS */
BEGINARRAY (SMSP_WO_DA_DCS, L_SMSP_MIN)
0xE9,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0x06, 0x81, 0x89, 0x67, 0x45, 0x23, 0xF1, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
```

```
0x40,
0xFF,
0x39
ENDARRAY

/* SMS parameters with minimum length, without DA, VP-REL */
BEGINARRAY (SMSP_WO_DA_VPREL, L_SMSP_MIN)
0xF1,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0x06, 0x81, 0x89, 0x67, 0x45, 0x23, 0xF1, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0x40,
0xF2,
0x39
ENDARRAY

/* EF(CBMIR), example writing */
BEGINARRAY (CBMIR_ON_U, L_CBMIR_5+1) 256,
0x00, 0x03, 0x00, 0x03,
0x00, 0x07, 0x00, 0x07,
0x00, 0x0B, 0x00, 0x0D,
0x00, 0x0E, 0x00, 0x0E,
0x00, 0x0F, 0x00, 0x0F
ENDARRAY

/* EF(CBMI), example writing */
BEGINARRAY (CBMI_ON_U, L_CBMI_10+1) 256,
0x00, 0x10,
0x00, 0x11,
0x00, 0x12,
0x00, 0x13,
0x00, 0x14,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF
ENDARRAY

/* EF(CBMIR), 1 entry, empty */
BEGINARRAY (CBMIR_DEF, L_CBMIR_1)
0xFF, 0xFF, 0xFF, 0xFF
ENDARRAY

/* EF(CBMIR), 2 entries, 1 range */
BEGINARRAY (CBMIR_2E_1R1, L_CBMIR_2)
0x00, 0x01, 0x00, 0x29,
0xFF, 0xFF, 0xFF, 0xFF
ENDARRAY

/* SMS parameters with minimum length, without DA, VP-REL */
BEGINARRAY (SMSP_CORRECT_R, L_SMSP_MIN)
0xF1,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0x04, 0x81, 0x21, 0x43, 0xF5, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0x47,
0x00,
0xFF
ENDARRAY
```

```
/* EF(CBMIR), example reading */
BEGINARRAY (CBMIR_ON_R, L_CBMIR_5)
0x00, 0x03, 0x00, 0x03,
0x00, 0x07, 0x00, 0x07,
0x00, 0x0B, 0x00, 0x0D,
0x00, 0x0E, 0x00, 0x0E,
0x00, 0x0F, 0x00, 0x0F
ENDARRAY

/* EF(CBMI), example reading */
BEGINARRAY (CBMI_ON_R, L_CBMI_10)
0x00, 0x10,
0x00, 0x11,
0x00, 0x12,
0x00, 0x13,
0x00, 0x14,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF
ENDARRAY

BEGINARRAY (CBM_MIDS_ON_SIM, 41) 20,
0x03, 0x00, 0x03, 0x00,
0x07, 0x00, 0x07, 0x00,
0x0B, 0x00, 0x0D, 0x00,
0x0E, 0x00, 0x0E, 0x00,
0x0F, 0x00, 0x0F, 0x00,
0x10, 0x00, 0x10, 0x00,
0x11, 0x00, 0x11, 0x00,
0x12, 0x00, 0x12, 0x00,
0x13, 0x00, 0x13, 0x00,
0x14, 0x00, 0x14, 0x00
ENDARRAY

BEGINARRAY (CBM_MID_SGL4, 41) 20,
0x03, 0x00, 0x03, 0x00,
0x07, 0x00, 0x07, 0x00,
0x0D, 0x00, 0x0D, 0x00,
0xED, 0x03, 0xED, 0x03,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF
ENDARRAY

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

```
0xFF
ENDARRAY

BEGINARRAY (CBMI_SGL4_U, L_CBMI_10+1) 256,
0x00, 0x03,
0x00, 0x07,
0x00, 0x0D,
0x03, 0xED,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF
ENDARRAY

BEGINARRAY (CBM_MID_SGL7, 41) 20,
0x05, 0x00, 0x05, 0x00,
0x09, 0x00, 0x09, 0x00,
0x83, 0x00, 0x86, 0x00,
0xED, 0x03, 0xED, 0x03,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF
ENDARRAY

BEGINARRAY (CBMI_SGL7_U, L_CBMI_10+1) 256,
0x00, 0x05,
0x00, 0x09,
0x00, 0x83,
0x00, 0x84,
0x00, 0x85,
0x00, 0x86,
0x03, 0xED,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF
ENDARRAY

BEGINARRAY (CBMI_SGL4_R, L_CBMI_10)
0x00, 0x03,
0x00, 0x07,
0x00, 0x0D,
0x03, 0xED,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF
ENDARRAY

/*---------------------------------------- fields ---------------------------------------------------- */
/* --- barear capability info, speech only ----*/
BEGIN_PSTRUCT("bcpara", BC_PARA_SPEECH)
```

```
                SET_COMP ("rate", UR_NOT_PRES)
                SET_COMP ("bearer_serv", BEARER_SERV_SPEECH)
                SET_COMP ("conn_elem", CONN_ELEM_NOT_PRES)
                SET_COMP ("stop_bits", STOP_1_BIT)
                SET_COMP ("data_bits", DATA_8_BIT)
                SET_COMP ("parity", PARITY_NONE)
                SET_COMP ("flow_control", NO_FLOW_CONTROL)
                SET_COMP ("modem_type", MT_NONE)
ENDSTRUCT

/* --- barear capability info, no service ----*/
BEGIN_PSTRUCT ("bcpara2", BC_PARA_NO_SERVICE)
                SET_COMP ("rate",           UR_NOT_PRES)
                SET_COMP ("bearer_serv",    BEARER_SERV_NOT_PRES)
                SET_COMP ("conn_elem",      CONN_ELEM_NOT_PRES)
                SET_COMP ("stop_bits",      STOP_1_BIT)
                SET_COMP ("data_bits",      DATA_8_BIT)
                SET_COMP ("parity",         PARITY_NONE)
                SET_COMP ("flow_control",   NO_FLOW_CONTROL)
                SET_COMP ("modem_type",     MT_NONE)
ENDSTRUCT

/* current PIN */
BEGINARRAY (F_CUR_PIN, 8)
0x08, 0x31, 0x32, 0x33, 0x34, 0xFF, 0xFF, 0xFF, 0xFF
ENDARRAY

/* new PIN */
BEGINARRAY (F_NEW_PIN, 8)
0x08, 0x39, 0x38, 0x37, 0x36, 0xFF, 0xFF, 0xFF, 0xFF
ENDARRAY

BEGINARRAY (EC_CODES, 16)       0x11, 0xF2, 0xFF,
                                0x99, 0xF9, 0xFF,
                                0xFF,0xFF,0xFF,0xFF,0xFF,
                                0xFF,0xFF,0xFF,0xFF
ENDARRAY

BEGINARRAY (NO_PREF_LANG, 5)
                0xFF,0xFF,0xFF,0xFF,0xFF
ENDARRAY

BEGINARRAY (IMSI_FIELD_DATA, 9)
                0x02,0x21,0x30,0xFF,0xFF,0xFF,0xFF,0xFF,0xFF
ENDARRAY

BEGINARRAY (SIM_SERV_ADN_BDN, 10)
                0xCF,           //      1100 1111
                0x3C,           //      0011 1100
                0x3C,           //      0011 1100
                0x03,           //      0000 0011
                0xFF,           //      1111 1111
                0x00,           //      0000 0000
                0xC0,           //      1100 0000
                0x30,           //      0011 0000
                0x00,           //      0000 0000
                0x00            //      0000 0000
ENDARRAY
```

```
BEGINARRAY (SIM_SERV_FDN, 10)
        0xEF,           //      1110 1111
        0x3C,           //      0011 1100
        0x3C,           //      0011 1100
        0x03,           //      0000 0011
        0xF3,           //      1111 0011
        0x00,           //      0000 0000
        0x30,           //      1100 0000
        0x00,           //      0000 0000
        0x00,           //      0000 0000
        0x00            //      0000 0000
ENDARRAY

BEGINARRAY (PREF_PLMN_DATA, 96)
      0x21, 0xF3, 0x89,    0x89, 0xF7, 0x21 ,    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, 0xFF, 0xFF,
      0xFF, 0xFF, 0xFF ,   0xFF, 0xFF, 0xFF,     0xFF, 0xFF, 0xFF ,    0xFF, 0xFF, 0xFF,
      0xFF, 0xFF, 0xFF ,   0xFF, 0xFF, 0xFF,     0xFF, 0xFF, 0xFF ,    0xFF, 0xFF, 0xFF,
      0xFF, 0xFF, 0xFF ,   0xFF, 0xFF, 0xFF,     0xFF, 0xFF, 0xFF ,    0xFF, 0xFF, 0xFF
ENDARRAY

// ADN entries , length of alpha idenitfier = 20
//      "00 49 123 9876543",129,"Heier, Max"
BEGINARRAY (DATA_ADN34_1, 33)
     0x48, 0x65, 0x69, 0x65, 0x72, 0x2C, 0x20, 0x4D, 0x61, 0x78,
     0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,0xFF,
     0x08,
     0x81,
     0x00, 0x94, 0x21, 0x93, 0x78, 0x56, 0x34, 0xFF, 0xFF, 0xFF,
     0xFF,
     0xFF
ENDARRAY

//      "9123 456789",161,"Hans Egon"
BEGINARRAY (DATA_ADN34_2, 33)
     0x48, 0x61, 0x6E, 0x73, 0x20, 0x45, 0x67, 0x6F, 0x6E,
     0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,0xFF,
     0x06,
     0xA1,
     0x19, 0x32, 0x54, 0x76, 0x98, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
     0xFF,
     0xFF
ENDARRAY

//      empty entry
BEGINARRAY (DATA_EMPTY_ADN34, 33)
     0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
     0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
     0x00,
     0xFF,
     0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
     0xFF,
     0xFF
ENDARRAY
```

```
// BDN entries , length of alpha idenitfier = 20
//          "30 76 90 33 67",129,"Heier, Max"
BEGINARRAY (DATA_BDN, 34)
        0x48, 0x65, 0x69, 0x65, 0x72, 0x2C, 0x20, 0x4D, 0x61, 0x78,
        0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,0xFF,
        0x08,
        0x81,
        0x00, 0x03, 0x67, 0x09, 0x33, 0x76, 0xFF, 0xFF, 0xFF, 0xFF,
        0xFF,
        0xFF
ENDARRAY

//          empty entry
BEGINARRAY (DATA_EMPTY_BDN, 34)
        0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
        0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
        0x00,
        0xFF,
        0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
        0xFF,
        0xFF
ENDARRAY

BEGINARRAY (DATA_SDN, 34)
        0x48, 0x65, 0x69, 0x65, 0x72, 0x2C, 0x20, 0x4D, 0x61, 0x78,
        0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,0xFF,
        0x08,
        0x81,
        0x00, 0x03, 0x67, 0x09, 0x33, 0x76, 0xFF, 0xFF, 0xFF, 0xFF,
        0xFF,
        0xFF
ENDARRAY

// ADN entryies , length of alpha idenitfier = 24
BEGINARRAY (DATA_ADN38_1, 37)
        0x41, 0x42, 0x43, 0x44, 0x45, 0x46, 0x47, 0x48, 0x49, 0x4A,
        0x41, 0x42, 0x43, 0x44, 0x45, 0x46, 0x47, 0x48, 0x49, 0x4A,
        0x41, 0x42, 0x43,0x44,
        0x06,
        0xA1,
        0x19, 0x32, 0x54, 0x76, 0x98, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
        0xFF,
        0xFF
ENDARRAY

BEGINARRAY (DATA_ADN38_2, 37)
        0x61, 0x62, 0x63, 0x64, 0x65, 0x66, 0x67, 0x68, 0x69, 0x6A,
        0x61, 0x62, 0x63, 0x64, 0x65, 0x66, 0x67, 0x68, 0x69, 0x6A,
        0x61, 0x62, 0x63,0x64,
        0x06,
        0xA1,
        0x19, 0x32, 0x54, 0x76, 0x98, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
        0xFF,
        0xFF
ENDARRAY

BEGINARRAY (DATA_EMPTY_ADN38, 37)
```

```
        0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
        0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
        0xFF, 0xFF, 0xFF,0xFF,
        0x00,
        0xFF,
        0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
        0xFF,
        0xFF
ENDARRAY

// ADN entries , length of alpha idenitfier = 40
BEGINARRAY (DATA_ADN54_1, 53)
        0x41, 0x42, 0x43, 0x44, 0x45, 0x46, 0x47, 0x48, 0x49, 0x4A,
        0x41, 0x42, 0x43, 0x44, 0x45, 0x46, 0x47, 0x48, 0x49, 0x4A,
        0x41, 0x42, 0x43, 0x44, 0x45, 0x46, 0x47, 0x48, 0x49, 0x4A,
        0x41, 0x42, 0x43, 0x44, 0x45, 0x46, 0x47, 0x48, 0x49, 0x4A,
        0x06,
        0xA1,
        0x19, 0x32, 0x54, 0x76, 0x98, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
        0xFF,
        0xFF
ENDARRAY

BEGINARRAY (DATA_ADN54_2, 53)
        0x61, 0x62, 0x63, 0x64, 0x65, 0x66, 0x67, 0x68, 0x69, 0x6A,
        0x61, 0x62, 0x63, 0x64, 0x65, 0x66, 0x67, 0x68, 0x69, 0x6A,
        0x61, 0x62, 0x63, 0x64, 0x65, 0x66, 0x67, 0x68, 0x69, 0x6A,
        0x61, 0x62, 0x63, 0x64, 0x65, 0x66, 0x67, 0x68, 0x69, 0x6A,
        0x06,
        0xA1,
        0x19, 0x32, 0x54, 0x76, 0x98, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
        0xFF,
        0xFF
ENDARRAY

BEGINARRAY (DATA_EMPTY_ADN54, 53)
        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,
        0x00,
        0xFF,
        0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
        0xFF,
        0xFF
ENDARRAY

// ADN entries , length of alpha idenitfier = 80
BEGINARRAY (DATA_ADN94_1, 93)
        0x41, 0x42, 0x43, 0x44, 0x45, 0x46, 0x47, 0x48, 0x49, 0x4A,
        0x41, 0x42, 0x43, 0x44, 0x45, 0x46, 0x47, 0x48, 0x49, 0x4A,
        0x41, 0x42, 0x43, 0x44, 0x45, 0x46, 0x47, 0x48, 0x49, 0x4A,
        0x41, 0x42, 0x43, 0x44, 0x45, 0x46, 0x47, 0x48, 0x49, 0x4A,
        0x41, 0x42, 0x43, 0x44, 0x45, 0x46, 0x47, 0x48, 0x49, 0x4A,
        0x41, 0x42, 0x43, 0x44, 0x45, 0x46, 0x47, 0x48, 0x49, 0x4A,
        0x41, 0x42, 0x43, 0x44, 0x45, 0x46, 0x47, 0x48, 0x49, 0x4A,
        0x41, 0x42, 0x43, 0x44, 0x45, 0x46, 0x47, 0x48, 0x49, 0x4A,
        0x06,
```

```
	0xA1,
	0x19, 0x32, 0x54, 0x76, 0x98, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
	0xFF,
	0xFF
ENDARRAY

BEGINARRAY (DATA_ADN94_2, 93)
	0x61, 0x62, 0x63, 0x64, 0x65, 0x66, 0x67, 0x68, 0x69, 0x6A,
	0x61, 0x62, 0x63, 0x64, 0x65, 0x66, 0x67, 0x68, 0x69, 0x6A,
	0x61, 0x62, 0x63, 0x64, 0x65, 0x66, 0x67, 0x68, 0x69, 0x6A,
	0x61, 0x62, 0x63, 0x64, 0x65, 0x66, 0x67, 0x68, 0x69, 0x6A,
	0x61, 0x62, 0x63, 0x64, 0x65, 0x66, 0x67, 0x68, 0x69, 0x6A,
	0x61, 0x62, 0x63, 0x64, 0x65, 0x66, 0x67, 0x68, 0x69, 0x6A,
	0x61, 0x62, 0x63, 0x64, 0x65, 0x66, 0x67, 0x68, 0x69, 0x6A,
	0x61, 0x62, 0x63, 0x64, 0x65, 0x66, 0x67, 0x68, 0x69, 0x6A,
	0x06,
	0xA1,
	0x19, 0x32, 0x54, 0x76, 0x98, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
	0xFF,
	0xFF
ENDARRAY

BEGINARRAY (DATA_EMPTY_ADN94, 93)
	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, 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,
	0x00,
	0xFF,
	0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
	0xFF,
	0xFF
ENDARRAY

// FDN entries , length of alpha idenitfier = 20
//	"00 49 123 9876543",129,"Heier, Max"
BEGINARRAY (DATA_FDN_1, 34)
	0x48, 0x65, 0x69, 0x65, 0x72, 0x2C, 0x20, 0x4D, 0x61, 0x78,
	0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,0xFF,
	0x08,
	0x81,
	0x00, 0x94, 0x21, 0x93, 0x78, 0x56, 0x34, 0xFF, 0xFF, 0xFF,
	0xFF,
	0xFF
ENDARRAY

//	"9123 456789",161,"Hans Egon"
BEGINARRAY (DATA_FDN_2, 34)
	0x48, 0x61, 0x6E, 0x73, 0x20, 0x45, 0x67, 0x6F, 0x6E,
	0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,0xFF,
	0x06,
	0xA1,
	0x19, 0x32, 0x54, 0x76, 0x98, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
	0xFF,
```

```
        0xFF
ENDARRAY

//      empty entry
BEGINARRAY (DATA_EMPTY_FDN, 34)
        0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
        0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
        0x00,
        0xFF,
        0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
        0xFF,
        0xFF
ENDARRAY

BEGINARRAY(A_SC_ADDR_017211963852, 12)
        0x00, 0x01, 0x07, 0x02, 0x01, 0x01, 0x09, 0x06, 0x03, 0x08, 0x05, 0x02
ENDARRAY

BEGIN_PSTRUCT("sc_addr", SA_017211963852)
        SET_COMP ("ntype", NPI_UNKNOW)
        SET_COMP ("nplan", NPI_ISDN_TEL_NUMB_PLAN)
        SET_COMP ("no_bcd", NUM_12)
        SET_COMP ("bcd", A_SC_ADDR_017211963852)
ENDSTRUCT

/* empty list of CB message identifier ranges */
BEGINARRAY (CBM_MID_DEF, 41) 20,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF
ENDARRAY

/* empty list of CB data coding scheme ranges */
BEGINARRAY (CBM_DCS_DEF, 21) 20,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF
ENDARRAY

/* list of CB message identifier ranges */
BEGINARRAY (CBM_MID_1R_2V, 41) 20,
0x01, 0x00, 0x29, 0x00,
0x19, 0x00, 0x19, 0x00,
0xD0, 0x07, 0xD0, 0x07,
```

```
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF
ENDARRAY

/* list of CB message identifier ranges */
BEGINARRAY (CBM_MID_2R_2V, 41) 20,
0x01, 0x00, 0x29, 0x00,
0x20, 0x01, 0x5F, 0x03,
0x19, 0x00, 0x19, 0x00,
0xD0, 0x07, 0xD0, 0x07,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF
ENDARRAY

/* list of CB message identifier ranges */
BEGINARRAY (CBM_MID_5R_2V, 41) 20,
0x01, 0x00, 0x29, 0x00,
0x30, 0x00, 0x30, 0x00,
0x51, 0x00, 0x51, 0x00,
0x20, 0x01, 0x5F, 0x03,
0x64, 0x00, 0x95, 0x00,
0x19, 0x00, 0x19, 0x00,
0xD0, 0x07, 0xD0, 0x07,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF
ENDARRAY

/* list of CB data coding scheme ranges */
BEGINARRAY (CBM_DCS_ON, 21) 20,
0x00, 0x00,
0x01, 0x01,
0x02, 0x02,
0x03, 0x03,
0x04, 0x05,
0x07, 0x07,
0x08, 0x08,
0x09, 0x0B,
0xFF, 0xFF,
0xFF, 0xFF
ENDARRAY
```

/* SIM EF(SMSP) Responses */

```
/* SMS parameters with minimum length, empty */
BEGINARRAY (SMSP_EMPTY, L_SMSP_MIN)
0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF,
```

```
0xFF,
0xFF
ENDARRAY

/* SIM EF(SMSP) Requests */
BEGINARRAY (SMSP_CORRECT_U, L_SMSP_MIN+1) 256,
0xF1,
0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0x04, 0x81, 0x21, 0x43, 0xF5, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0x47,
0x00,
0xFF
ENDARRAY

/* SMS parameters with 7 Bytes alpha identifier, complete */
BEGINARRAY (SMSP_CMPL_ALPHA_ID, L_SMSP_ALPHA_ID+1)
0x41, 0x42, 0x43, 0x3C, 0x1E, 0x3E, 0xFF,
0xE0,
0x05, 0x81, 0x21, 0x43, 0xF5, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0x08, 0x81, 0x89, 0x67, 0x45, 0x23, 0xF1, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,   /* number of octets wrong, but shall work */
0x40,
0xF2,
0x39
ENDARRAY

/* SMS parameters with minimum length, complete */
BEGINARRAY (SMSP_CMPL, L_SMSP_MIN)
0xE0,
0x05, 0x81, 0x21, 0x43, 0xF5, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0x07, 0x91, 0x94, 0x03, 0x93, 0x90, 0x04, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0x40,
0xF2,
0x39
ENDARRAY

/* list of CB message identifier ranges */
BEGINARRAY (CBM_MID_1V, 41) 20,
0x11, 0x00, 0x11, 0x00,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF
ENDARRAY

/* list of CB message identifier ranges */
BEGINARRAY (CBM_MID_1R, 41) 20,
0x01, 0x00, 0x29, 0x00,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
```

```
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF
ENDARRAY

/* list of CB message identifier ranges */
BEGINARRAY (CBM_MID_2R, 41) 20,
0x01, 0x00, 0x29, 0x00,
0x20, 0x01, 0x5F, 0x03,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF
ENDARRAY

/* list of CB message identifier ranges */
BEGINARRAY (CBM_MID_5R, 41) 20,
0x01, 0x00, 0x29, 0x00,
0x30, 0x00, 0x30, 0x00,
0x51, 0x00, 0x51, 0x00,
0x20, 0x01, 0x5F, 0x03,
0x64, 0x00, 0x95, 0x00,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF
ENDARRAY

/* EF(CBMIR), 5 entries, 5 ranges */
BEGINARRAY (CBMIR_5E_5R, L_CBMIR_5)
0x00, 0x01, 0x00, 0x29,
0x00, 0x30, 0x00, 0x30,
0x00, 0x51, 0x00, 0x51,
0x01, 0x20, 0x03, 0x5F,
0x00, 0x64, 0x00, 0x95
ENDARRAY

/* EF(CBMI), 10 entries, 2 values */
BEGINARRAY (CBMI_10E_2V2, L_CBMI_10)
0x00, 0x19,
0xFF, 0xFF,
0x07, 0xD0,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF
ENDARRAY

/* EF(CBMIR), 10 entries, 10 ranges */
```

```
BEGINARRAY (CBMIR_10E_10R, L_CBMIR_10)
0x00, 0x01, 0x00, 0x29,
0x00, 0x30, 0x00, 0x30,
0x00, 0x51, 0x00, 0x51,
0x01, 0x20, 0x03, 0x5F,
0x00, 0x64, 0x00, 0x95,
0x04, 0x01, 0x04, 0x01,
0x05, 0x00, 0x05, 0xFF,
0x07, 0xCF, 0x07, 0xCF,
0x0F, 0xFF, 0x1F, 0xFF,
0x80, 0x00, 0x80, 0x03
ENDARRAY

/* EF(CBMI), 10 entries, 2 values */
BEGINARRAY (CBMI_10E_2V3, L_CBMI_10)
0xFF, 0xFF,
0x00, 0x19,
0xFF, 0xFF,
0xFF, 0xFF,
0x07, 0xD0,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF
ENDARRAY

/* EF(CBMI), 10 entries, 2 values */
BEGINARRAY (CBMI_10E_2V4, L_CBMI_10)
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0x00, 0x19,
0x07, 0xD0
ENDARRAY

/* EF(CBMIR), 11 entries, 10 ranges */
BEGINARRAY (CBMIR_11E_10R, L_CBMIR_11)
0x00, 0x01, 0x00, 0x29,
0x00, 0x30, 0x00, 0x30,
0x00, 0x51, 0x00, 0x51,
0x01, 0x20, 0x03, 0x5F,
0x00, 0x64, 0x00, 0x95,
0x04, 0x01, 0x04, 0x01,
0xFF, 0xFF, 0xFF, 0xFF,
0x05, 0x00, 0x05, 0xFF,
0x07, 0xCF, 0x07, 0xCF,
0x0F, 0xFF, 0x1F, 0xFF,
0x80, 0x00, 0x80, 0x03
ENDARRAY

/* EF(CBMI), 10 entries, 2 values */
```

```
BEGINARRAY (CBMI_10E_2V1, L_CBMI_10)
0x00, 0x19,
0x07, 0xD0,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF
ENDARRAY

/* EF(CBMIR), 11 entries, 11 ranges */
BEGINARRAY (CBMIR_11E_11R, L_CBMIR_11)
0x00, 0x01, 0x00, 0x29,
0x00, 0x30, 0x00, 0x30,
0x00, 0x51, 0x00, 0x51,
0x01, 0x20, 0x03, 0x5F,
0x00, 0x64, 0x00, 0x95,
0x04, 0x01, 0x04, 0x01,
0x05, 0x00, 0x05, 0xFF,
0x07, 0xCF, 0x07, 0xCF,
0x0F, 0xFF, 0x1F, 0xFF,
0x80, 0x00, 0x80, 0x03,
0xFF, 0xF0, 0xFF, 0xFE
ENDARRAY

/* list of CB message identifier ranges */
BEGINARRAY (CBM_MID_10R, 41) 20,
0x01, 0x00, 0x29, 0x00,
0x30, 0x00, 0x30, 0x00,
0x51, 0x00, 0x51, 0x00,
0x20, 0x01, 0x5F, 0x03,
0x64, 0x00, 0x95, 0x00,
0x01, 0x04, 0x01, 0x04,
0x00, 0x05, 0xFF, 0x05,
0xCF, 0x07, 0xCF, 0x07,
0xFF, 0x0F, 0xFF, 0x1F,
0x00, 0x80, 0x03, 0x80
ENDARRAY

/* EF(CBMI), 24 entries, empty */
BEGINARRAY (CBMI_12E, L_CBMI_12)
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF
ENDARRAY
```

```
BEGINARRAY (CBM_MID_2V, 41) 20,
0x19, 0x00, 0x19, 0x00,
0xD0, 0x07, 0xD0, 0x07,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF
ENDARRAY

/* example list of CB message identifier ranges */
BEGINARRAY (CBM_MIDS_ON, 41) 20,
0x03, 0x00, 0x03, 0x00,
0x07, 0x00, 0x07, 0x00,
0x0B, 0x00, 0x0D, 0x00,
0x0E, 0x00, 0x0E, 0x00,
0x0F, 0x00, 0x0F, 0x00,
0x10, 0x00, 0x10, 0x00,
0x11, 0x00, 0x11, 0x00,
0x12, 0x00, 0x14, 0x00,
0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF, 0xFF
ENDARRAY

/*-------------------------------------- arrays ---------------------------------------------- */
/* PIN 1234 array */
BEGINARRAY (A_PIN_1234,9) 0x08, 0x31, 0x32, 0x33, 0x34, 0xFF, 0xFF, 0xFF, 0xFF ENDARRAY
/* calling number array */
BEGINARRAY (A_CLG_NUM,11) 0x0, 0x3, 0x0, 0x3, 0x9, 0x0, 0x9, 0x4, 0x2, 0x2, 0x3 ENDARRAY
BYTE LA_CLG_NUM 11
/* calling emergency array */
BEGINARRAY (A_CLG_EMERG,3) 0x1, 0x1, 0x2 ENDARRAY
BYTE LA_CLG_EMERG 3
/* called number array */
BEGINARRAY (A_CLD_NUM,11) 0x0, 0x3, 0x0, 0x3, 0x9, 0x0, 0x9, 0x4, 0x4, 0x4, 0x4 ENDARRAY
BYTE LA_CLD_NUM 11
/* called emergency array */
BEGINARRAY (A_CLD_EMERG,3) 0x1, 0x1, 0x2 ENDARRAY
BYTE LA_CLD_EMERG 3
/* international called number array */
BEGINARRAY (A_CLD_NUM_INT,13) 0x4, 0x9, 0x0, 0x3, 0x0, 0x3, 0x9, 0x0, 0x9, 0x4, 0x4, 0x4, 0x4 ENDARRAY
BYTE LA_CLD_NUM_INT 13
/* EF PLMNsel field array */
BEGINARRAY (A_EF_PLMNSEL,30) 0xFF, 0xFF, 0xFF, 0x62, 0xF2, 0x10, 0x62, 0xF2, 0x20, 0xFF, 0xFF, 0xFF,
0x62, 0xF2, 0x30, 0x62, 0xF2, 0x70, 0xFF, 0xFF, 0xFF, 0x32, 0xF4, 0x33, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF
ENDARRAY
/* EF PLMNsel field array, deleted entry*/
BEGINARRAY (A_EF_PLMNSEL_DEL,27) 0x00, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0x62, 0xF2, 0x20, 0xFF,
0xFF, 0xFF, 0x62, 0xF2, 0x30, 0x62, 0xF2, 0x70, 0xFF, 0xFF, 0xFF, 0x32, 0xF4, 0x33, 0xFF, 0xFF, 0xFF
ENDARRAY
/* EF PLMNsel field array, deleted entry, compact*/
BEGINARRAY (A_EF_PLMNSEL_DEL_CMP,27) 0x00, 0x62, 0xF2, 0x20, 0x62, 0xF2, 0x30, 0x62, 0xF2, 0x70,
0x32, 0xF4, 0x33, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF
ENDARRAY
/* EF PLMNsel field array, inserted entry, compact*/
```

```
BEGINARRAY (A_EF_PLMNSEL_INS_CMP,27) 0x00, 0x62, 0xF2, 0x10, 0x62, 0xF2, 0x20, 0x82, 0xF4, 0x10, 0x62,
0xF2, 0x30, 0x62, 0xF2, 0x70, 0x32, 0xF4, 0x33, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF ENDARRAY
/* EF PLMNsel field array, inserted 1st entry, compact*/
BEGINARRAY (A_EF_PLMNSEL_INS_1_CMP,27) 0x00, 0x82, 0xF4, 0x10,0x62, 0xF2, 0x10, 0x62, 0xF2, 0x20,
0x62, 0xF2, 0x30, 0x62, 0xF2, 0x70, 0x32, 0xF4, 0x33, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF ENDARRAY
/* EF PLMNsel field array, append entry, compact*/
BEGINARRAY (A_EF_PLMNSEL_NEW_CMP,27) 0x00, 0x62, 0xF2, 0x10, 0x62, 0xF2, 0x20, 0x62, 0xF2, 0x30,
0x62, 0xF2, 0x70, 0x32, 0xF4, 0x33, 0x82, 0xF4, 0x10, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF ENDARRAY
/* EF PLMNsel field array, changed entries, compact*/
BEGINARRAY (A_EF_PLMNSEL_CHG_CMP,27) 0x00, 0x32, 0xF4, 0x33, 0x62, 0xF2, 0x20, 0x62, 0xF2, 0x30,
0x62, 0xF2, 0x70, 0x62, 0xF2, 0x10, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
0xFF, 0xFF, 0xFF ENDARRAY
/* EF PLMNsel field array, overwritten entry*/
BEGINARRAY (A_EF_PLMNSEL_OVR,27) 0x00, 0xFF, 0xFF, 0xFF, 0x62, 0xF2, 0x10, 0x62, 0xF2, 0x20, 0xFF,
0xFF, 0xFF, 0x82, 0xF4, 0x10, 0x62, 0xF2, 0x70, 0xFF, 0xFF, 0xFF, 0x32, 0xF4, 0x33, 0xFF, 0xFF, 0xFF
ENDARRAY
/* EF PLMNsel field array */
BEGINARRAY (A_EF_PLMNSEL_NEW,27) 0x00, 0x82, 0xF4, 0x10, 0x62, 0xF2, 0x10, 0x62, 0xF2, 0x20, 0xFF,
0xFF, 0xFF, 0x62, 0xF2, 0x30, 0x62, 0xF2, 0x70, 0xFF, 0xFF, 0xFF, 0x32, 0xF4, 0x33, 0xFF, 0xFF, 0xFF
ENDARRAY
/* EF ECC field array */
BEGINARRAY (A_ECC_FIELD,12) 0x11, 0xF2, 0xFF, 0x99, 0xF9, 0xFF, 0x21, 0x43, 0x65, 0xFF, 0xFF, 0xFF
ENDARRAY
/* EF ACM field array */
BEGINARRAY (A_ACM_FIELD,4) 0x00, 0x12, 0x34, 0x56 ENDARRAY
/* EF ADN record array */
BEGINARRAY (A_ADN_REC,20) 0x01, 0x23, 0x45, 0x67, 0x89, 0xAB, 0xCD, 0xEF, 0x01, 0x23, 0x45, 0x67, 0x89,
0xAB, 0xCD, 0xEF, 0x01, 0x23, 0x45, 0x67 ENDARRAY
/* EF SMS record array */
BEGINARRAY (A_SMS_REC,11) 0x00, 0x12, 0x34, 0x56, 0x78, 0x90, 0x12, 0x34, 0x56, 0x78, 0x90 ENDARRAY
/* get response data */
BEGINARRAY (A_RESP_DATA,10) 0x12, 0x34, 0x56, 0x78, 0x90, 0x12, 0x34, 0x56, 0x78, 0x90 ENDARRAY

/* interrogate CLCK BAOC FIE voice fax */
BEGINARRAY (A_FAC_CLCK_BAOC_IRGT_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02,
0x01, 0x0E, 0x30, 0x06, 0x04, 0x01, 0x92, 0x83, 0x01, 0x80 ENDARRAY

/*------------------------------------- arrays ------------------------------------------------------ */
BEGINARRAY (A_SS_VER_1,4) 0x00, 0x00, 0x00, 0x00 ENDARRAY
/* destination addresses */
BEGINARRAY (DA_98765, 8)
        0x00, 0x01, 0x05, 0x09, 0x08, 0x07, 0x06, 0x05
ENDARRAY
/* service center addresses */
BEGINARRAY(SA_12345, 8)
        0x00, 0x01, 0x05, 0x01, 0x02, 0x03, 0x04, 0x05
ENDARRAY
/* short messages */
BEGINARRAY (SMS_MO_CONTENT, 9)
        0x09, 0x41, 0xE1, 0x90, 0x58, 0x34, 0x1E, 0x91, 0x49
ENDARRAY
BEGINARRAY(DA_654321, 9)
        0x00,0x01,0x06,0x06,0x05,0x04,0x03,0x02,0x01
ENDARRAY
/* absolute validity periods */
```

```
BEGINARRAY(VP_A9801071234564, 13)
        0x09, 0x08, 0x00, 0x01, 0x00, 0x07, 0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x40
ENDARRAY
BEGINARRAY(SA_ALT, 12)
        0x00, 0x01, 0x09, 0x09, 0x06, 0x03, 0x02, 0x01, 0x04, 0x07, 0x08, 0x05
ENDARRAY
BEGINARRAY (NO_DA, 3)
        0x00, 0x00, 0x00
ENDARRAY
BEGINARRAY(WITH_CMD_DATA, 6)
        0x05, 0x12, 0x34, 0x56, 0x78, 0x90
ENDARRAY
BEGINARRAY (OA_987654, 9)
        0x00, 0x01, 0x06, 0x09, 0x08, 0x07, 0x06, 0x05, 0x04
ENDARRAY

/*---------------------------------------- SS facilities ---------------------------------------- */
/* invoke build MPTY FIE */
BEGINARRAY (A_FAC_BUILD_MPTY,12) 0x40, 0x00, 0x00, 0x00, 0xA1, 0x06, 0x02, 0x01, 0x00, 0x02, 0x01, 0x7C ENDARRAY

/* invoke split MPTY FIE */
BEGINARRAY (A_FAC_SPLIT_MPTY,12) 0x40, 0x00, 0x00, 0x00, 0xA1, 0x06, 0x02, 0x01, 0x01, 0x02, 0x01, 0x79 ENDARRAY

/* invoke hold MPTY FIE */
BEGINARRAY (A_FAC_HOLD_MPTY,12) 0x40, 0x00, 0x00, 0x00, 0xA1, 0x06, 0x02, 0x01, 0x01, 0x02, 0x01, 0x7B ENDARRAY

/* invoke hold MPTY FIE */
BEGINARRAY (A_FAC_HOLD_MPTY_2,12) 0x40, 0x00, 0x00, 0x00, 0xA1, 0x06, 0x02, 0x01, 0x03, 0x02, 0x01, 0x7B ENDARRAY

/* invoke retrieve MPTY FIE */
BEGINARRAY (A_FAC_RETRIEVE_MPTY,12) 0x40, 0x00, 0x00, 0x00, 0xA1, 0x06, 0x02, 0x01, 0x02, 0x02, 0x01, 0x7A
    ENDARRAY

/* invoke ECT FIE */
BEGINARRAY (A_FAC_ECT,12) 0x40, 0x00, 0x00, 0x00, 0xA1, 0x06, 0x02, 0x01, 0x00, 0x02, 0x01, 0x7E ENDARRAY

/* invoke CCBS FIE */
BEGINARRAY (A_FAC_CCBS,14) 0x50, 0x00, 0x00, 0x00, 0xA1, 0x08, 0x02, 0x01, 0x00, 0x02, 0x01, 0x77, 0x30,
0x00 ENDARRAY

/* invoke notify CCBS */
BEGINARRAY (A_FAC_NTFY_CCBS,36) 0x00, 0x01, 0x00, 0x00, 0xA1, 0x1E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x10,
0x30, 0x16, 0xB5, 0x11, 0x80, 0x01, 0x01, 0x81, 0x07, 0x91, 0x94, 0x03, 0x93, 0x90, 0x44, 0x44, 0x83, 0x03, 0x83,
0x01, 0x10, 0x96, 0x01, 0x03 ENDARRAY

/* empty FIE */
BEGINARRAY (A_FAC_EMPTY,4) 0x00, 0x00, 0x00, 0x00 ENDARRAY

/* result build MPTY FIE */
BEGINARRAY (A_FAC_BUILD_MPTY_RES,9) 0x28, 0x00, 0x00, 0x00, 0xA2, 0x03, 0x02, 0x01, 0x00
ENDARRAY

/* result split MPTY FIE */
BEGINARRAY (A_FAC_SPLIT_MPTY_RES,9) 0x28, 0x00, 0x00, 0x00, 0xA2, 0x03, 0x02, 0x01, 0x00 ENDARRAY

/* result hold MPTY FIE */
BEGINARRAY (A_FAC_HOLD_MPTY_RES,9) 0x28, 0x00, 0x00, 0x00, 0xA2, 0x03, 0x02, 0x01, 0x00 ENDARRAY
```

```
/* result retrieve MPTY FIE */
BEGINARRAY (A_FAC_RETRIEVE_MPTY_RES,9) 0x28, 0x00, 0x00, 0x00, 0xA2, 0x03, 0x02, 0x01, 0x00
ENDARRAY

/* result ECT FIE */
BEGINARRAY (A_FAC_ECT_RES,9) 0x28, 0x00, 0x00, 0x00, 0xA2, 0x03, 0x02, 0x01, 0x00 ENDARRAY

/* result CCBS FIE */
BEGINARRAY (A_FAC_CCBS_RES,35) 0xF8, 0x00, 0x00, 0x00, 0xA2, 0x1D, 0x02, 0x01, 0x00, 0x30, 0x18, 0x02,
0x01, 0x77, 0x30, 0x13, 0xA0, 0x11, 0x80, 0x01, 0x01, 0x81, 0x07, 0x91, 0x94, 0x03, 0x93, 0x90, 0x24, 0x32, 0x83,
0x03, 0x83, 0x01, 0x10 ENDARRAY

/* error CCBS FIE */
BEGINARRAY (A_FAC_CCBS_ERR,12) 0x40, 0x00, 0x00, 0x00, 0xA3, 0x06, 0x02, 0x01, 0x00, 0x02, 0x01, 0x15
ENDARRAY

/* advice of charge facility */
BEGINARRAY (A_FAC_AOC,43) 0xA1, 0x29, 0x02, 0x01, 0x00, 0x02, 0x01, 0x7D, 0x30, 0x7E, 0x80, 0x01, 0x72, 0xA1, 0x1A, 0x81,
0x01, 0x3C, 0x82, 0x02, 0x00, 0x8C, 0x83, 0x01, 0x64, 0x84, 0x02, 0x00, 0xFA, 0x85, 0x02, 0x00, 0x00, 0x86, 0x02, 0x00, 0x00,
0x87, 0x02, 0x02, 0x58, 0x00, 0x00 ENDARRAY

/* interrogate CLIP FIE */
BEGINARRAY (A_FAC_CLIP_IRGT,17) 0x68, 0x00, 0x00, 0x00, 0xA1, 0x0B, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0E,
0x30, 0x03, 0x04, 0x01, 0x11 ENDARRAY
/* interrogate CLIR FIE */
BEGINARRAY (A_FAC_CLIR_IRGT,17) 0x68, 0x00, 0x00, 0x00, 0xA1, 0x0B, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0E,
0x30, 0x03, 0x04, 0x01, 0x12 ENDARRAY
/* SS version */
BEGINARRAY (A_SS_VER_2,4) 0x01, 0x00, 0x00, 0x00 ENDARRAY

/* interrogate result CLIP provisioned FIE */
BEGINARRAY (A_FAC_CLIP_IRGT_RES_PROV,17) 0x68, 0x00, 0x00, 0x00, 0xA2, 0x0B, 0x02, 0x01, 0x00, 0x30,
0x06, 0x02, 0x01, 0x0E, 0x80, 0x01, 0x05 ENDARRAY
/* interrogate result CLIR provisioned temp allowed FIE */

BEGINARRAY (A_FAC_CLIR_IRGT_RES_PVTMAL,22) 0x90, 0x00, 0x00, 0x00, 0xA2, 0x10, 0x02, 0x01, 0x00,
0x30, 0x0B, 0x02, 0x01, 0x0E, 0xA4, 0x06, 0x04, 0x01, 0x05, 0x0A, 0x01, 0x02 ENDARRAY

/*------------------------------------- arrays ------------------------------------------------------ */
/* --- phone number "01234567"---*/
BEGINARRAY (PHN_NUM0, 8)
        0x00, 0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x07
ENDARRAY
/* --- phone number "4901234567"---*/
BEGINARRAY (PHN_NUM1, 10)
        0x04, 0x09, 0x00, 0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x07
ENDARRAY
/* --- empty phone number ---*/
BEGINARRAY (EMPTY_PHN_NUM, 1)
        0x00
ENDARRAY
/* short messages data */
BEGINARRAY(D_SM7_SPECIAL_SIGNS, SMS_MSG_LEN)
        0x02, 0xC0, 0x37, 0xE1, 0x2F, 0xEC, 0xFF, 0x0F, 0xC2, 0x61, 0xEB, 0xE0, 0x23, 0x0C,
        0x5C, 0x6F, 0x60, 0xD0, 0x05, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
```

```
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
ENDARRAY

/* short messages data */
BEGINARRAY(D_SM7_ABCDEFGHI, SMS_MSG_LEN)
        0x41, 0xE1, 0x90, 0x58, 0x34, 0x1E, 0x91, 0x49, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
ENDARRAY
BEGINARRAY(D_SM8_HEX_SPECIAL_SIGNS, SMS_MSG_LEN)
        0x00, 0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x07, 0x08, 0x09, 0xFF, 0xFE, 0xFD, 0xFC,
        0xFB, 0xFA, 0xF0, 0x00, 0x12, 0x34, 0x56, 0x78, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
ENDARRAY
/* short messages data */
BEGINARRAY(D_CMD_DATA_EMPTY, SMS_CMD_LEN)
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
        0x00, 0x00, 0x00
ENDARRAY

/*--------------------------------------- Call barring SS ----------------------------------------------- */

/* interrogate CLCK BAOC FIE data */
BEGINARRAY (A_FAC_CLCK_BAOC_IRGT_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02,
0x01, 0x0E, 0x30, 0x06, 0x04, 0x01, 0x92, 0x82, 0x01, 0x00 ENDARRAY

/* interrogate CLCK BOIC FIE voice fax */
BEGINARRAY (A_FAC_CLCK_BOIC_IRGT_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02,
0x01, 0x0E, 0x30, 0x06, 0x04, 0x01, 0x93, 0x83, 0x01, 0x80 ENDARRAY
```

/* interrogate CLCK BOIC FIE data */
BEGINARRAY (A_FAC_CLCK_BOIC_IRGT_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0E, 0x30, 0x06, 0x04, 0x01, 0x93, 0x82, 0x01, 0x00 ENDARRAY

/* interrogate CLCK BAOC ex HC FIE voice fax */
BEGINARRAY (A_FAC_CLCK_BOICxHC_IRGT_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0E, 0x30, 0x06, 0x04, 0x01, 0x94, 0x83, 0x01, 0x80 ENDARRAY

/* interrogate CLCK BOIC ex HC FIE data */
BEGINARRAY (A_FAC_CLCK_BOICxHC_IRGT_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0E, 0x30, 0x06, 0x04, 0x01, 0x94, 0x82, 0x01, 0x00 ENDARRAY

/* interrogate CLCK BAIC FIE voice fax */
BEGINARRAY (A_FAC_CLCK_BAIC_IRGT_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0E, 0x30, 0x06, 0x04, 0x01, 0x9A, 0x83, 0x01, 0x80 ENDARRAY

/* interrogate CLCK BAIC FIE data */
BEGINARRAY (A_FAC_CLCK_BAIC_IRGT_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0E, 0x30, 0x06, 0x04, 0x01, 0x9A, 0x82, 0x01, 0x00 ENDARRAY

/* interrogate CLCK BICR FIE voice fax */
BEGINARRAY (A_FAC_CLCK_BICR_IRGT_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0E, 0x30, 0x06, 0x04, 0x01, 0x9B, 0x83, 0x01, 0x80 ENDARRAY

/* interrogate CLCK BICR FIE data */
BEGINARRAY (A_FAC_CLCK_BICR_IRGT_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0E, 0x30, 0x06, 0x04, 0x01, 0x9B, 0x82, 0x01, 0x00 ENDARRAY

/* activate CLCK BAOC Voice/Fax FIE */
BEGINARRAY (A_FAC_CLCK_BAOC_ACT_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0C, 0x30, 0x06, 0x04, 0x01, 0x92, 0x83, 0x01, 0x80 ENDARRAY

/* activate CLCK BAOC CB Data FIE */
BEGINARRAY (A_FAC_CLCK_BAOC_ACT_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0C, 0x30, 0x06, 0x04, 0x01, 0x92, 0x82, 0x01, 0x00 ENDARRAY

/* invoke get PWD, enter PWD FIE */
BEGINARRAY (A_FAC_ENTER_PWD_REQ, 18) 0x70, 0x00, 0x00, 0x00, 0xA1, 0x0C, 0x02, 0x01, 0x01, 0x80, 0x01, 0x00, 0x02, 0x01, 0x12, 0x0A, 0x01, 0x00 ENDARRAY

/* result get PWD, enter PWD FIE */
BEGINARRAY (A_FAC_ENTER_PWD_RES, 20) 0x80, 0x00, 0x00, 0x00, 0xA2, 0x0E, 0x02, 0x01, 0x01, 0x30, 0x09, 0x02, 0x01, 0x12, 0x12, 0x04, 0x31, 0x32, 0x33, 0x34 ENDARRAY

/* 2nd invoke get PWD, enter PWD FIE */
BEGINARRAY (A_FAC_ENTER_PWD_REQ_2, 18) 0x70, 0x00, 0x00, 0x00, 0xA1, 0x0C, 0x02, 0x01, 0x81, 0x80, 0x01, 0x00, 0x02, 0x01, 0x12, 0x0A, 0x01, 0x00 ENDARRAY

/* 2nd result get PWD, enter PWD FIE */
BEGINARRAY (A_FAC_ENTER_PWD_RES_2, 20) 0x80, 0x00, 0x00, 0x00, 0xA2, 0x0E, 0x02, 0x01, 0x81, 0x30, 0x09, 0x02, 0x01, 0x12, 0x12, 0x04, 0x31, 0x32, 0x33, 0x34 ENDARRAY

/* activate result CLCK BAOC CB Voice/Fax FIE */
BEGINARRAY (A_FAC_CLCK_BAOC_ACT_VF_RES,29) 0xD0, 0x00, 0x00, 0x00, 0xA2, 0x18, 0x02, 0x01, 0x00, 0x30, 0x13, 0x02, 0x01, 0x0C, 0xA1, 0x0D, 0x04, 0x01, 0x92, 0x30, 0x08,0x30, 0x06, 0x83, 0x01, 0x80, 0x84, 0x01, 0x07 ENDARRAY

/* activate result CLCK BAOC CB Data FIE */

BEGINARRAY (A_FAC_CLCK_BAOC_ACT_D_RES,29) 0xD0, 0x00, 0x00, 0x00, 0xA2, 0x18, 0x02, 0x01, 0x01, 0x30, 0x13, 0x02, 0x01, 0x0C, 0xA1, 0x0D, 0x04, 0x01, 0x92, 0x30, 0x08,0x30, 0x06, 0x82, 0x01, 0x00, 0x84, 0x01, 0x07 ENDARRAY

/* activate CLCK BOIC Voice/Fax FIE */
BEGINARRAY (A_FAC_CLCK_BOIC_ACT_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0C, 0x30, 0x06, 0x04, 0x01, 0x93, 0x83, 0x01, 0x80 ENDARRAY

/* activate CLCK BOIC CB Data FIE */
BEGINARRAY (A_FAC_CLCK_BOIC_ACT_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0C, 0x30, 0x06, 0x04, 0x01, 0x93, 0x82, 0x01, 0x00 ENDARRAY

/* activate result CLCK BOIC CB Voice/Fax FIE */
BEGINARRAY (A_FAC_CLCK_BOIC_ACT_VF_RES,29) 0xD0, 0x00, 0x00, 0x00, 0xA2, 0x18, 0x02, 0x01, 0x00, 0x30, 0x13, 0x02, 0x01, 0x0C, 0xA1, 0x0D, 0x04, 0x01, 0x93, 0x30, 0x08,0x30, 0x06, 0x83, 0x01, 0x80, 0x84, 0x01, 0x07 ENDARRAY

/* activate result CLCK BOIC CB Data FIE */
BEGINARRAY (A_FAC_CLCK_BOIC_ACT_D_RES,29) 0xD0, 0x00, 0x00, 0x00, 0xA2, 0x18, 0x02, 0x01, 0x01, 0x30, 0x13, 0x02, 0x01, 0x0C, 0xA1, 0x0D, 0x04, 0x01, 0x93, 0x30, 0x08,0x30, 0x06, 0x82, 0x01, 0x00, 0x84, 0x01, 0x07 ENDARRAY

/* activate CLCK BOIC ex HC Voice/Fax FIE */
BEGINARRAY (A_FAC_CLCK_BOICxHC_ACT_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0C, 0x30, 0x06, 0x04, 0x01, 0x94, 0x83, 0x01, 0x80 ENDARRAY

/* activate CLCK BOIC ex HC CB Data FIE */
BEGINARRAY (A_FAC_CLCK_BOICxHC_ACT_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0C, 0x30, 0x06, 0x04, 0x01, 0x94, 0x82, 0x01, 0x00 ENDARRAY

/* activate result CLCK BOICxHC CB Voice/Fax FIE */
BEGINARRAY (A_FAC_CLCK_BOICxHC_ACT_VF_RES,29) 0xD0, 0x00, 0x00, 0x00, 0xA2, 0x18, 0x02, 0x01, 0x00, 0x30, 0x13, 0x02, 0x01, 0x0C, 0xA1, 0x0D, 0x04, 0x01, 0x94, 0x30, 0x08,0x30, 0x06, 0x83, 0x01, 0x80, 0x84, 0x01, 0x07 ENDARRAY

/* activate result CLCK BOIC CB Data FIE */
BEGINARRAY (A_FAC_CLCK_BOICxHC_ACT_D_RES,29) 0xD0, 0x00, 0x00, 0x00, 0xA2, 0x18, 0x02, 0x01, 0x01, 0x30, 0x13, 0x02, 0x01, 0x0C, 0xA1, 0x0D, 0x04, 0x01, 0x94, 0x30, 0x08,0x30, 0x06, 0x82, 0x01, 0x00, 0x84, 0x01, 0x07 ENDARRAY

/* activate CLCK BAIC Voice/Fax FIE */
BEGINARRAY (A_FAC_CLCK_BAIC_ACT_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0C, 0x30, 0x06, 0x04, 0x01, 0x9A, 0x83, 0x01, 0x80 ENDARRAY

/* activate CLCK BAIC CB Data FIE */
BEGINARRAY (A_FAC_CLCK_BAIC_ACT_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0C, 0x30, 0x06, 0x04, 0x01, 0x9A, 0x82, 0x01, 0x00 ENDARRAY

/* activate result CLCK BAIC CB Voice/Fax FIE */
BEGINARRAY (A_FAC_CLCK_BAIC_ACT_VF_RES,29) 0xD0, 0x00, 0x00, 0x00, 0xA2, 0x18, 0x02, 0x01, 0x00, 0x30, 0x13, 0x02, 0x01, 0x0C, 0xA1, 0x0D, 0x04, 0x01, 0x9A, 0x30, 0x08,0x30, 0x06, 0x83, 0x01, 0x80, 0x84, 0x01, 0x07 ENDARRAY

/* activate result CLCK BAIC CB Data FIE */
BEGINARRAY (A_FAC_CLCK_BAIC_ACT_D_RES,29) 0xD0, 0x00, 0x00, 0x00, 0xA2, 0x18, 0x02, 0x01, 0x01, 0x30, 0x13, 0x02, 0x01, 0x0C, 0xA1, 0x0D, 0x04, 0x01, 0x9A, 0x30, 0x08,0x30, 0x06, 0x82, 0x01, 0x00, 0x84, 0x01, 0x07 ENDARRAY

/* activate CLCK BICR Voice/Fax FIE */
BEGINARRAY (A_FAC_CLCK_BICR_ACT_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0C, 0x30, 0x06, 0x04, 0x01, 0x9B, 0x83, 0x01, 0x80 ENDARRAY

/* activate CLCK BICR CB Data FIE */
BEGINARRAY (A_FAC_CLCK_BICR_ACT_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0C, 0x30, 0x06, 0x04, 0x01, 0x9B, 0x82, 0x01, 0x00 ENDARRAY

/* activate result CLCK BICR CB Voice/Fax FIE */
BEGINARRAY (A_FAC_CLCK_BICR_ACT_VF_RES,29) 0xD0, 0x00, 0x00, 0x00, 0xA2, 0x18, 0x02, 0x01, 0x00, 0x30, 0x13, 0x02, 0x01, 0x0C, 0xA1, 0x0D, 0x04, 0x01, 0x9B, 0x30, 0x08,0x30, 0x06, 0x83, 0x01, 0x80, 0x84, 0x01, 0x07 ENDARRAY

/* activate result CLCK BICR CB Data FIE */
BEGINARRAY (A_FAC_CLCK_BICR_ACT_D_RES,29) 0xD0, 0x00, 0x00, 0x00, 0xA2, 0x18, 0x02, 0x01, 0x01, 0x30, 0x13, 0x02, 0x01, 0x0C, 0xA1, 0x0D, 0x04, 0x01, 0x9B, 0x30, 0x08,0x30, 0x06, 0x82, 0x01, 0x00, 0x84, 0x01, 0x07 ENDARRAY

/* deactivate CLCK all CB Voice/Fax FIE */
BEGINARRAY (A_FAC_CLCK_ALLCB_DEACT_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0D, 0x30, 0x06, 0x04, 0x01, 0x90, 0x83, 0x01, 0x80 ENDARRAY

/* deactivate CLCK all CB Data FIE */
BEGINARRAY (A_FAC_CLCK_ALLCB_DEACT_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0D, 0x30, 0x06, 0x04, 0x01, 0x90, 0x82, 0x01, 0x00 ENDARRAY

/* deactivate CLCK all out CB Voice/Fax FIE */
BEGINARRAY (A_FAC_CLCK_ALLOUT_DEACT_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0D, 0x30, 0x06, 0x04, 0x01, 0x91, 0x83, 0x01, 0x80 ENDARRAY

/* deactivate CLCK all out CB Data FIE */
BEGINARRAY (A_FAC_CLCK_ALLOUT_DEACT_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0D, 0x30, 0x06, 0x04, 0x01, 0x91, 0x82, 0x01, 0x00 ENDARRAY

/* deactivate CLCK all in CB Voice/Fax FIE */
BEGINARRAY (A_FAC_CLCK_ALLIN_DEACT_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0D, 0x30, 0x06, 0x04, 0x01, 0x99, 0x83, 0x01, 0x80 ENDARRAY

/* deactivate CLCK all in CB Data FIE */
BEGINARRAY (A_FAC_CLCK_ALLIN_DEACT_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0D, 0x30, 0x06, 0x04, 0x01, 0x99, 0x82, 0x01, 0x00 ENDARRAY

/* deactivate CLCK BAOC Voice/Fax FIE */
BEGINARRAY (A_FAC_CLCK_BAOC_DEACT_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0D, 0x30, 0x06, 0x04, 0x01, 0x92, 0x83, 0x01, 0x80 ENDARRAY

/* deactivate CLCK BAOC CB Data FIE */
BEGINARRAY (A_FAC_CLCK_BAOC_DEACT_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0D, 0x30, 0x06, 0x04, 0x01, 0x92, 0x82, 0x01, 0x00 ENDARRAY

/* deactivate CLCK BOIC Voice/Fax FIE */
BEGINARRAY (A_FAC_CLCK_BOIC_DEACT_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0D, 0x30, 0x06, 0x04, 0x01, 0x93, 0x83, 0x01, 0x80 ENDARRAY

/* deactivate CLCK BOIC CB Data FIE */
BEGINARRAY (A_FAC_CLCK_BOIC_DEACT_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0D, 0x30, 0x06, 0x04, 0x01, 0x93, 0x82, 0x01, 0x00 ENDARRAY

/* deactivate CLCK BOIC ex HC Voice/Fax FIE */
BEGINARRAY (A_FAC_CLCK_BOICxHC_DEACT_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0D, 0x30, 0x06, 0x04, 0x01, 0x94, 0x83, 0x01, 0x80 ENDARRAY

/* deactivate CLCK BOIC ex HC CB Data FIE */
BEGINARRAY (A_FAC_CLCK_BOICxHC_DEACT_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0D, 0x30, 0x06, 0x04, 0x01, 0x94, 0x82, 0x01, 0x00 ENDARRAY

/* deactivate CLCK BAIC Voice/Fax FIE */
BEGINARRAY (A_FAC_CLCK_BAIC_DEACT_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0D, 0x30, 0x06, 0x04, 0x01, 0x9A, 0x83, 0x01, 0x80 ENDARRAY

/* deactivate CLCK BAIC CB Data FIE */
BEGINARRAY (A_FAC_CLCK_BAIC_DEACT_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0D, 0x30, 0x06, 0x04, 0x01, 0x9A, 0x82, 0x01, 0x00 ENDARRAY

/* deactivate CLCK BICR Voice/Fax FIE */
BEGINARRAY (A_FAC_CLCK_BICR_DEACT_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0D, 0x30, 0x06, 0x04, 0x01, 0x9B, 0x83, 0x01, 0x80 ENDARRAY

/* deactivate CLCK BICR CB Data FIE */
BEGINARRAY (A_FAC_CLCK_BICR_DEACT_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0D, 0x30, 0x06, 0x04, 0x01, 0x9B, 0x82, 0x01, 0x00 ENDARRAY

BYTE LA_FAC_AOC 344
SHORT SS_NO_ERROR 0x600

/*---------- Register Password ---------- */
/* invoke register PWD FIE */
BEGINARRAY (A_FAC_CPWD_ALLCB_REG, 15) 0x58, 0x00, 0x00, 0x00, 0xA1, 0x09, 0x02, 0x01, 0x00, 0x02, 0x01, 0x11, 0x04, 0x01, 0x90 ENDARRAY

/* invoke get PWD, enter new PWD FIE */
BEGINARRAY (A_FAC_NEW_PWD_REQ, 18) 0x70, 0x00, 0x00, 0x00, 0xA1, 0x0C, 0x02, 0x01, 0x81, 0x80, 0x01, 0x00, 0x02, 0x01, 0x12, 0x0A, 0x01, 0x01 ENDARRAY

/* result get PWD, enter new PWD FIE */
BEGINARRAY (A_FAC_NEW_PWD_RES, 20) 0x80, 0x00, 0x00, 0x00, 0xA2, 0x0E, 0x02, 0x01, 0x81, 0x30, 0x09, 0x02, 0x01, 0x12, 0x12, 0x04, 0x39, 0x38, 0x37, 0x36 ENDARRAY

/* invoke get PWD, enter new PWD again FIE */
BEGINARRAY (A_FAC_NEWAGN_PWD_REQ, 18) 0x70, 0x00, 0x00, 0x00, 0xA1, 0x0C, 0x02, 0x01, 0x82, 0x80, 0x01, 0x00, 0x02, 0x01, 0x12, 0x0A, 0x01, 0x02 ENDARRAY

/* result get PWD, enter new PWD again FIE */
BEGINARRAY (A_FAC_NEWAGN_PWD_RES, 20) 0x80, 0x00, 0x00, 0x00, 0xA2, 0x0E, 0x02, 0x01, 0x82, 0x30, 0x09, 0x02, 0x01, 0x12, 0x12, 0x04, 0x39, 0x38, 0x37, 0x36 ENDARRAY

/* result register PWD FIE */
BEGINARRAY (A_FAC_CPWD_ALLCB_RES, 24) 0xA0, 0x00, 0x00, 0x00, 0xA2, 0x80, 0x02, 0x01, 0x00, 0x30, 0x80, 0x02, 0x01, 0x11, 0x12, 0x04, 0x31, 0x32, 0x33, 0x34, 0x00, 0x00, 0x00, 0x00 ENDARRAY

/* error register PWD FIE */
BEGINARRAY (A_FAC_CPWD_ALLCB_ERR_1, 12) 0x40, 0x00, 0x00, 0x00, 0xA3, 0x06, 0x02, 0x01, 0x00, 0x02, 0x01, 0x13 ENDARRAY

/* error register PWD FIE */

BEGINARRAY (A_FAC_CPWD_ALLCB_ERR_2, 14) 0x50, 0x00, 0x00, 0x00, 0xA3, 0x80, 0x02, 0x01, 0x00, 0x02, 0x01, 0x26, 0x00, 0x00 ENDARRAY

/* error register PWD FIE */
BEGINARRAY (A_FAC_CPWD_ALLCB_ERR_3, 15) 0x58, 0x00, 0x00, 0x00, 0xA3, 0x09, 0x02, 0x01, 0x00, 0x02, 0x01, 0x25, 0x0A, 0x01, 0x02 ENDARRAY

/*---------- Call forwarding SS ---------- */

/* interrogate CCFC CFU FIE voice fax */
BEGINARRAY (A_FAC_CCFC_CFU_IRGT_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0E, 0x30, 0x06, 0x04, 0x01, 0x21, 0x83, 0x01, 0x80 ENDARRAY

/* interrogate CCFC CFU FIE data */
BEGINARRAY (A_FAC_CCFC_CFU_IRGT_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0E, 0x30, 0x06, 0x04, 0x01, 0x21, 0x82, 0x01, 0x00 ENDARRAY

/* interrogate CCFC CFB FIE voice fax */
BEGINARRAY (A_FAC_CCFC_CFB_IRGT_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0E, 0x30, 0x06, 0x04, 0x01, 0x29, 0x83, 0x01, 0x80 ENDARRAY

/* interrogate CCFC CFB FIE data */
BEGINARRAY (A_FAC_CCFC_CFB_IRGT_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0E, 0x30, 0x06, 0x04, 0x01, 0x29, 0x82, 0x01, 0x00 ENDARRAY

/* interrogate CCFC CFNRY FIE voice fax */
BEGINARRAY (A_FAC_CCFC_CFNRY_IRGT_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0E, 0x30, 0x06, 0x04, 0x01, 0x2A, 0x83, 0x01, 0x80 ENDARRAY

/* interrogate CCFC CFNRY FIE data */
BEGINARRAY (A_FAC_CCFC_CFNRY_IRGT_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0E, 0x30, 0x06, 0x04, 0x01, 0x2A, 0x82, 0x01, 0x00 ENDARRAY

/* interrogate CCFC CFNRC FIE voice fax */
BEGINARRAY (A_FAC_CCFC_CFNRC_IRGT_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0E, 0x30, 0x06, 0x04, 0x01, 0x2B, 0x83, 0x01, 0x80 ENDARRAY

/* interrogate CCFC CFNRC FIE data */
BEGINARRAY (A_FAC_CCFC_CFNRC_IRGT_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0E, 0x30, 0x06, 0x04, 0x01, 0x2B, 0x82, 0x01, 0x00 ENDARRAY

/* register CCFC CFU Voice/Fax FIE */
BEGINARRAY (A_FAC_CCFC_CFU_REG_VF,35) 0xF8, 0x00, 0x00, 0x00, 0xA1, 0x1D, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0A, 0x30, 0x15, 0x04, 0x01, 0x21, 0x83, 0x01, 0x80, 0x84, 0x07, 0x81, 0x30, 0x30, 0x09, 0x49, 0x22, 0xF3, 0x86, 0x04, 0x80, 0x21, 0x43, 0x65 ENDARRAY

/* register CCFC CFU Data FIE */
BEGINARRAY (A_FAC_CCFC_CFU_REG_D,35) 0xF8, 0x00, 0x00, 0x00, 0xA1, 0x1D, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0A, 0x30, 0x15, 0x04, 0x01, 0x21, 0x82, 0x01, 0x00, 0x84, 0x07, 0x81, 0x30, 0x30, 0x09, 0x49, 0x22, 0xF3, 0x86, 0x04, 0x80, 0x21, 0x43, 0x65 ENDARRAY

/* register CCFC CFB Voice/Fax FIE */
BEGINARRAY (A_FAC_CCFC_CFB_REG_VF,35) 0xF8, 0x00, 0x00, 0x00, 0xA1, 0x1D, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0A, 0x30, 0x15, 0x04, 0x01, 0x29, 0x83, 0x01, 0x80, 0x84, 0x07, 0x81, 0x30, 0x30, 0x09, 0x49, 0x22, 0xF3, 0x86, 0x04, 0x80, 0x21, 0x43, 0x65 ENDARRAY

/* register CCFC CFB Data FIE */

BEGINARRAY (A_FAC_CCFC_CFB_REG_D,35) 0xF8, 0x00, 0x00, 0x00, 0xA1, 0x1D, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0A, 0x30, 0x15, 0x04, 0x01, 0x29, 0x82, 0x01, 0x00, 0x84, 0x07, 0x81, 0x30, 0x30, 0x09, 0x49, 0x22, 0xF3, 0x86, 0x04, 0x80, 0x21, 0x43, 0x65 ENDARRAY

/* register CCFC CFNRY Voice/Fax FIE */
BEGINARRAY (A_FAC_CCFC_CFNRY_REG_VF,38) 0x10, 0x01, 0x00, 0x00, 0xA1, 0x20, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0A, 0x30, 0x18, 0x04, 0x01, 0x2A, 0x83, 0x01, 0x80, 0x84, 0x07, 0x81, 0x30, 0x30, 0x09, 0x49, 0x22, 0xF3, 0x86, 0x04, 0x80, 0x21, 0x43, 0x65, 0x85, 0x01, 0x10 ENDARRAY

/* register CCFC CFNRY Data FIE */
BEGINARRAY (A_FAC_CCFC_CFNRY_REG_D,38) 0x10, 0x01, 0x00, 0x00, 0xA1, 0x20, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0A, 0x30, 0x18, 0x04, 0x01, 0x2A, 0x82, 0x01, 0x00, 0x84, 0x07, 0x81, 0x30, 0x30, 0x09, 0x49, 0x22, 0xF3, 0x86, 0x04, 0x80, 0x21, 0x43, 0x65, 0x85, 0x01, 0x10 ENDARRAY

/* register CCFC CFNRC Voice/Fax FIE */
BEGINARRAY (A_FAC_CCFC_CFNRC_REG_VF,35) 0xF8, 0x00, 0x00, 0x00, 0xA1, 0x1D, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0A, 0x30, 0x15, 0x04, 0x01, 0x2B, 0x83, 0x01, 0x80, 0x84, 0x07, 0x81, 0x30, 0x30, 0x09, 0x49, 0x22, 0xF3, 0x86, 0x04, 0x80, 0x21, 0x43, 0x65 ENDARRAY

/* register CCFC CFNRC Data FIE */
BEGINARRAY (A_FAC_CCFC_CFNRC_REG_D,35) 0xF8, 0x00, 0x00, 0x00, 0xA1, 0x1D, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0A, 0x30, 0x15, 0x04, 0x01, 0x2B, 0x82, 0x01, 0x00, 0x84, 0x07, 0x81, 0x30, 0x30, 0x09, 0x49, 0x22, 0xF3, 0x86, 0x04, 0x80, 0x21, 0x43, 0x65 ENDARRAY

/* register CCFC all CF Voice/Fax FIE */
BEGINARRAY (A_FAC_CCFC_ALLCF_REG_VF,35) 0xF8, 0x00, 0x00, 0x00, 0xA1, 0x1D, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0A, 0x30, 0x15, 0x04, 0x01, 0x20, 0x83, 0x01, 0x80, 0x84, 0x07, 0x81, 0x30, 0x30, 0x09, 0x49, 0x22, 0xF3, 0x86, 0x04, 0x80, 0x21, 0x43, 0x65 ENDARRAY

/* register CCFC all CF Data FIE */
BEGINARRAY (A_FAC_CCFC_ALLCF_REG_D,35) 0xF8, 0x00, 0x00, 0x00, 0xA1, 0x1D, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0A, 0x30, 0x15, 0x04, 0x01, 0x20, 0x82, 0x01, 0x00, 0x84, 0x07, 0x81, 0x30, 0x30, 0x09, 0x49, 0x22, 0xF3, 0x86, 0x04, 0x80, 0x21, 0x43, 0x65 ENDARRAY

/* register CCFC all CFC Voice/Fax FIE */
BEGINARRAY (A_FAC_CCFC_ALLCFC_REG_VF,35) 0xF8, 0x00, 0x00, 0x00, 0xA1, 0x1D, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0A, 0x30, 0x15, 0x04, 0x01, 0x28, 0x83, 0x01, 0x80, 0x84, 0x07, 0x81, 0x30, 0x30, 0x09, 0x49, 0x22, 0xF3, 0x86, 0x04, 0x80, 0x21, 0x43, 0x65 ENDARRAY

/* register CCFC all CFC Data FIE */
BEGINARRAY (A_FAC_CCFC_ALLCFC_REG_D,35) 0xF8, 0x00, 0x00, 0x00, 0xA1, 0x1D, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0A, 0x30, 0x15, 0x04, 0x01, 0x28, 0x82, 0x01, 0x00, 0x84, 0x07, 0x81, 0x30, 0x30, 0x09, 0x49, 0x22, 0xF3, 0x86, 0x04, 0x80, 0x21, 0x43, 0x65 ENDARRAY

/* erase CCFC CFU Voice/Fax FIE */
BEGINARRAY (A_FAC_CCFC_CFU_ERS_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0B, 0x30, 0x06, 0x04, 0x01, 0x21, 0x83, 0x01, 0x80 ENDARRAY

/* erase CCFC CFU Data FIE */
BEGINARRAY (A_FAC_CCFC_CFU_ERS_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0B, 0x30, 0x06, 0x04, 0x01, 0x21, 0x82, 0x01, 0x00 ENDARRAY

/* erase CCFC CFB Voice/Fax FIE */
BEGINARRAY (A_FAC_CCFC_CFB_ERS_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0B, 0x30, 0x06, 0x04, 0x01, 0x29, 0x83, 0x01, 0x80 ENDARRAY

/* erase CCFC CFB Data FIE */

BEGINARRAY (A_FAC_CCFC_CFB_ERS_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0B, 0x30, 0x06, 0x04, 0x01, 0x29, 0x82, 0x01, 0x00 ENDARRAY

/* erase CCFC CFNRY Voice/Fax FIE */
BEGINARRAY (A_FAC_CCFC_CFNRY_ERS_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0B, 0x30, 0x06, 0x04, 0x01, 0x2A, 0x83, 0x01, 0x80 ENDARRAY

/* erase CCFC CFNRY Data FIE */
BEGINARRAY (A_FAC_CCFC_CFNRY_ERS_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0B, 0x30, 0x06, 0x04, 0x01, 0x2A, 0x82, 0x01, 0x00 ENDARRAY

/* erase CCFC CFNRC Voice/Fax FIE */
BEGINARRAY (A_FAC_CCFC_CFNRC_ERS_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0B, 0x30, 0x06, 0x04, 0x01, 0x2B, 0x83, 0x01, 0x80 ENDARRAY

/* erase CCFC CFNRC Data FIE */
BEGINARRAY (A_FAC_CCFC_CFNRC_ERS_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0B, 0x30, 0x06, 0x04, 0x01, 0x2B, 0x82, 0x01, 0x00 ENDARRAY

/* erase CCFC all CF Voice/Fax FIE */
BEGINARRAY (A_FAC_CCFC_ALLCF_ERS_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0B, 0x30, 0x06, 0x04, 0x01, 0x20, 0x83, 0x01, 0x80 ENDARRAY

/* erase CCFC all CF Data FIE */
BEGINARRAY (A_FAC_CCFC_ALLCF_ERS_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0B, 0x30, 0x06, 0x04, 0x01, 0x20, 0x82, 0x01, 0x00 ENDARRAY

/* erase CCFC all CFC Voice/Fax FIE */
BEGINARRAY (A_FAC_CCFC_ALLCFC_ERS_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0B, 0x30, 0x06, 0x04, 0x01, 0x28, 0x83, 0x01, 0x80 ENDARRAY

/* erase CCFC all CFC Data FIE */
BEGINARRAY (A_FAC_CCFC_ALLCFC_ERS_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0B, 0x30, 0x06, 0x04, 0x01, 0x28, 0x82, 0x01, 0x00 ENDARRAY

/* activate CCFC CFU Voice/Fax FIE */
BEGINARRAY (A_FAC_CCFC_CFU_ACT_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0C, 0x30, 0x06, 0x04, 0x01, 0x21, 0x83, 0x01, 0x80 ENDARRAY

/* activate CCFC CFU Data FIE */
BEGINARRAY (A_FAC_CCFC_CFU_ACT_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0C, 0x30, 0x06, 0x04, 0x01, 0x21, 0x82, 0x01, 0x00 ENDARRAY

/* activate CCFC CFB Voice/Fax FIE */
BEGINARRAY (A_FAC_CCFC_CFB_ACT_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0C, 0x30, 0x06, 0x04, 0x01, 0x29, 0x83, 0x01, 0x80 ENDARRAY

/* activate CCFC CFB Data FIE */
BEGINARRAY (A_FAC_CCFC_CFB_ACT_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0C, 0x30, 0x06, 0x04, 0x01, 0x29, 0x82, 0x01, 0x00 ENDARRAY

/* activate CCFC CFNRY Voice/Fax FIE */
BEGINARRAY (A_FAC_CCFC_CFNRY_ACT_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0C, 0x30, 0x06, 0x04, 0x01, 0x2A, 0x83, 0x01, 0x80 ENDARRAY

/* activate CCFC CFNRY Data FIE */
BEGINARRAY (A_FAC_CCFC_CFNRY_ACT_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0C, 0x30, 0x06, 0x04, 0x01, 0x2A, 0x82, 0x01, 0x00 ENDARRAY

/* activate CCFC CFNRC Voice/Fax FIE */
BEGINARRAY (A_FAC_CCFC_CFNRC_ACT_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0C, 0x30, 0x06, 0x04, 0x01, 0x2B, 0x83, 0x01, 0x80 ENDARRAY

/* activate CCFC CFNRC Data FIE */
BEGINARRAY (A_FAC_CCFC_CFNRC_ACT_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0C, 0x30, 0x06, 0x04, 0x01, 0x2B, 0x82, 0x01, 0x00 ENDARRAY

/* activate CCFC all CF Voice/Fax FIE */
BEGINARRAY (A_FAC_CCFC_ALLCF_ACT_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0C, 0x30, 0x06, 0x04, 0x01, 0x20, 0x83, 0x01, 0x80 ENDARRAY

/* activate CCFC all CF Data FIE */
BEGINARRAY (A_FAC_CCFC_ALLCF_ACT_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0C, 0x30, 0x06, 0x04, 0x01, 0x20, 0x82, 0x01, 0x00 ENDARRAY

/* activate CCFC all CFC Voice/Fax FIE */
BEGINARRAY (A_FAC_CCFC_ALLCFC_ACT_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0C, 0x30, 0x06, 0x04, 0x01, 0x28, 0x83, 0x01, 0x80 ENDARRAY

/* activate CCFC all CFC Data FIE */
BEGINARRAY (A_FAC_CCFC_ALLCFC_ACT_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0C, 0x30, 0x06, 0x04, 0x01, 0x28, 0x82, 0x01, 0x00 ENDARRAY

/* deactivate CCFC CFU Voice/Fax FIE */
BEGINARRAY (A_FAC_CCFC_CFU_DEACT_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0D, 0x30, 0x06, 0x04, 0x01, 0x21, 0x83, 0x01, 0x80 ENDARRAY

/* deactivate CCFC CFU Data FIE */
BEGINARRAY (A_FAC_CCFC_CFU_DEACT_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0D, 0x30, 0x06, 0x04, 0x01, 0x21, 0x82, 0x01, 0x00 ENDARRAY

/* deactivate CCFC CFB Voice/Fax FIE */
BEGINARRAY (A_FAC_CCFC_CFB_DEACT_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0D, 0x30, 0x06, 0x04, 0x01, 0x29, 0x83, 0x01, 0x80 ENDARRAY

/* deactivate CCFC CFB Data FIE */
BEGINARRAY (A_FAC_CCFC_CFB_DEACT_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0D, 0x30, 0x06, 0x04, 0x01, 0x29, 0x82, 0x01, 0x00 ENDARRAY

/* deactivate CCFC CFNRY Voice/Fax FIE */
BEGINARRAY (A_FAC_CCFC_CFNRY_DEACT_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0D, 0x30, 0x06, 0x04, 0x01, 0x2A, 0x83, 0x01, 0x80 ENDARRAY

/* deactivate CCFC CFNRY Data FIE */
BEGINARRAY (A_FAC_CCFC_CFNRY_DEACT_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0D, 0x30, 0x06, 0x04, 0x01, 0x2A, 0x82, 0x01, 0x00 ENDARRAY

/* deactivate CCFC CFNRC Voice/Fax FIE */
BEGINARRAY (A_FAC_CCFC_CFNRC_DEACT_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0D, 0x30, 0x06, 0x04, 0x01, 0x2B, 0x83, 0x01, 0x80 ENDARRAY

/* deactivate CCFC CFNRC Data FIE */
BEGINARRAY (A_FAC_CCFC_CFNRC_DEACT_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0D, 0x30, 0x06, 0x04, 0x01, 0x2B, 0x82, 0x01, 0x00 ENDARRAY

/* deactivate CCFC all CF Voice/Fax FIE */

BEGINARRAY (A_FAC_CCFC_ALLCF_DEACT_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0D, 0x30, 0x06, 0x04, 0x01, 0x20, 0x83, 0x01, 0x80 ENDARRAY

/* deactivate CCFC all CF Data FIE */
BEGINARRAY (A_FAC_CCFC_ALLCF_DEACT_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0D, 0x30, 0x06, 0x04, 0x01, 0x20, 0x82, 0x01, 0x00 ENDARRAY

/* deactivate CCFC all CFC Voice/Fax FIE */
BEGINARRAY (A_FAC_CCFC_ALLCFC_DEACT_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0D, 0x30, 0x06, 0x04, 0x01, 0x28, 0x83, 0x01, 0x80 ENDARRAY

/* deactivate CCFC all CFC Data FIE */
BEGINARRAY (A_FAC_CCFC_ALLCFC_DEACT_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0D, 0x30, 0x06, 0x04, 0x01, 0x28, 0x82, 0x01, 0x00 ENDARRAY

/* interrogate result CCFC CFU FIE voice fax */
BEGINARRAY (A_FAC_CCFC_CFU_IRGT_VF_RES,33) 0xE8, 0x00, 0x00, 0x00, 0xA2, 0x1B, 0x02, 0x01, 0x00, 0x30, 0x16, 0x02, 0x01, 0x0E, 0xA3, 0x10, 0x30, 0x06, 0x83, 0x01, 0x10, 0x84, 0x01, 0x04, 0x30, 0x06, 0x83, 0x01, 0x60, 0x84, 0x01, 0x04 ENDARRAY

/* interrogate result CCFC CFU FIE data */
BEGINARRAY (A_FAC_CCFC_CFU_IRGT_D_RES,26) 0xB0, 0x00, 0x00, 0x00, 0xA2, 0x14, 0x02, 0x01, 0x01, 0x30, 0x0E, 0x02, 0x01, 0x0E, 0xA3, 0x08, 0x30, 0x06, 0x82, 0x01, 0x10, 0x84, 0x01, 0x04 ENDARRAY

/* interrogate result CCFC CFB FIE voice fax */
BEGINARRAY (A_FAC_CCFC_CFB_IRGT_VF_RES,45) 0x48, 0x01, 0x00, 0x00, 0xA2, 0x27, 0x02, 0x01, 0x00, 0x30, 0x22, 0x02, 0x01, 0x0E, 0xA3, 0x1C, 0x30, 0x12, 0x83, 0x01, 0x10, 0x84, 0x01, 0x07, 0x85, 0x07, 0x91, 0x94, 0x03, 0x93, 0x90, 0x44, 0x44, 0x86, 0x01, 0x04, 0x30, 0x06, 0x83, 0x01, 0x60, 0x84, 0x01, 0x00 ENDARRAY

/* interrogate result CCFC CFB FIE data */
BEGINARRAY (A_FAC_CCFC_CFB_IRGT_D_RES,36) 0x00, 0x01, 0x00, 0x00, 0xA2, 0x1E, 0x02, 0x01, 0x00, 0x30, 0x19, 0x02, 0x01, 0x0E, 0xA3, 0x14, 0x30, 0x12, 0x82, 0x01, 0x10, 0x84, 0x01, 0x07, 0x85, 0x07, 0x81, 0x30, 0x30, 0x09, 0x49, 0x22, 0xF3, 0x86, 0x01, 0x04 ENDARRAY

/* interrogate result CCFC CFNRY FIE voice fax */
BEGINARRAY (A_FAC_CCFC_CFNRY_IRGT_VF_RES,48) 0x60, 0x01, 0x00, 0x00, 0xA2, 0x2A, 0x02, 0x01, 0x00, 0x30, 0x25, 0x02, 0x01, 0x0E, 0xA3, 0x1F, 0x30, 0x15, 0x83, 0x01, 0x10, 0x84, 0x01, 0x07, 0x85, 0x07, 0x91, 0x94, 0x03, 0x93, 0x90, 0x44, 0x44, 0x86, 0x01, 0x04, 0x87, 0x01, 0x0A, 0x30, 0x06, 0x83, 0x01, 0x60, 0x84, 0x01, 0x07 ENDARRAY

/* interrogate result CCFC CFNRY FIE data */
BEGINARRAY (A_FAC_CCFC_CFNRY_IRGT_D_RES,17) 0x68, 0x00, 0x00, 0x00, 0xA2, 0x0B, 0x02, 0x01, 0x01, 0x30, 0x06, 0x02, 0x01, 0x0E, 0x80, 0x01, 0x04 ENDARRAY

/* interrogate result CCFC CFNRC FIE voice fax */
BEGINARRAY (A_FAC_CCFC_CFNRC_IRGT_VF_RES,17) 0x68, 0x00, 0x00, 0x00, 0xA2, 0x0B, 0x02, 0x01, 0x01, 0x30, 0x06, 0x02, 0x01, 0x0E, 0x80, 0x01, 0x04 ENDARRAY

/* interrogate result CCFC CFNRC FIE data */
BEGINARRAY (A_FAC_CCFC_CFNRC_IRGT_D_RES,17) 0x68, 0x00, 0x00, 0x00, 0xA2, 0x0B, 0x02, 0x01, 0x01, 0x30, 0x06, 0x02, 0x01, 0x0E, 0x80, 0x01, 0x04 ENDARRAY

/*---------- Call waiting SS---------- */
/* interrogate CCWA FIE voice fax*/
BEGINARRAY (A_FAC_CCWA_IRGT_VF,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0E, 0x30, 0x06, 0x04, 0x01, 0x41, 0x83, 0x01, 0x80 ENDARRAY

/* interrogate CCWA FIE data */

BEGINARRAY (A_FAC_CCWA_IRGT_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x01, 0x02, 0x01, 0x0E, 0x30, 0x06, 0x04, 0x01, 0x41, 0x82, 0x01, 0x00 ENDARRAY

/* interrogate result CCWA FIE voice fax*/
BEGINARRAY (A_FAC_CCWA_IRGT_VF_RES,23) 0x98, 0x00, 0x00, 0x00, 0xA2, 0x11, 0x02, 0x01, 0x00, 0x30, 0x0C, 0x02, 0x01, 0x0E, 0xA2, 0x06, 0x83, 0x01, 0x10, 0x83, 0x01, 0x60 ENDARRAY

/* interrogate result CCWA FIE voice data*/
BEGINARRAY (A_FAC_CCWA_IRGT_D_RES,19) 0x78, 0x00, 0x00, 0x00, 0xA2, 0x0D, 0x02, 0x01, 0x01, 0x30, 0x08, 0x02, 0x01, 0x0E, 0xA2, 0x03, 0x82, 0x01, 0x10 ENDARRAY

/* activate CCWA voice FIE */
BEGINARRAY (A_FAC_CCWA_ACT_V,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0C, 0x30, 0x06, 0x04, 0x01, 0x41, 0x83, 0x01, 0x10 ENDARRAY

/* activate result CCWA voice FIE */
BEGINARRAY (A_FAC_CCWA_ACT_V_RES,27) 0xB8, 0x00, 0x00, 0x00, 0xA2, 0x15, 0x02, 0x01, 0x00, 0x30, 0x10, 0x02, 0x01, 0x0C, 0xA3, 0x0B, 0x04, 0x01, 0x41, 0x84, 0x01, 0x05, 0x30, 0x03, 0x83, 0x01, 0x10 ENDARRAY

/* activate CCWA data FIE */
BEGINARRAY (A_FAC_CCWA_ACT_D,20) 0x80, 0x00, 0x00, 0x00, 0xA1, 0x0E, 0x02, 0x01, 0x00, 0x02, 0x01, 0x0C, 0x30, 0x06, 0x04, 0x01, 0x41, 0x82, 0x01, 0x00 ENDARRAY

/* activate result CCWA data FIE */
BEGINARRAY (A_FAC_CCWA_ACT_D_RES,27) 0xB8, 0x00, 0x00, 0x00, 0xA2, 0x15, 0x02, 0x01, 0x00, 0x30, 0x10, 0x02, 0x01, 0x0C, 0xA3, 0x0B, 0x04, 0x01, 0x41, 0x84, 0x01, 0x05, 0x30, 0x03, 0x82, 0x01, 0x00 ENDARRAY

/*---------- unstructured SS data ---------- */
/* unstructured SS notify FIE */
BEGINARRAY (A_FAC_USSD_NTFY,42) 0x30, 0x01, 0x00, 0x00, 0xA1, 0x24, 0x02, 0x01, 0x80, 0x02, 0x01, 0x3D, 0x30, 0x1C, 0x04, 0x01, 0xA5, 0x04, 0x17, 0x61, 0xF1, 0x98, 0x5C, 0x36, 0x9F, 0xD1, 0x69, 0xF5, 0x9A, 0xDD, 0x76, 0xBF, 0xE1, 0x71, 0xF9, 0x9C, 0x5E, 0xB7, 0xDF, 0xF1, 0x79, 0x3D ENDARRAY

/* unstructured SS notify result FIE */
BEGINARRAY (A_FAC_USSD_NTFY_RES,14) 0x50, 0x00, 0x00, 0x00, 0xA2, 0x08, 0x02, 0x01, 0x80, 0x30, 0x03, 0x02, 0x01, 0x3D ENDARRAY

/* unstructured SS request FIE */
BEGINARRAY (A_FAC_USSD_REQ,42) 0x30, 0x01, 0x00, 0x00, 0xA1, 0x24, 0x02, 0x01, 0x80, 0x02, 0x01, 0x3C, 0x30, 0x1C, 0x04, 0x01, 0xA5, 0x04, 0x17, 0x61, 0xF1, 0x98, 0x5C, 0x36, 0x9F, 0xD1, 0x69, 0xF5, 0x9A, 0xDD, 0x76, 0xBF, 0xE1, 0x71, 0xF9, 0x9C, 0x5E, 0xB7, 0xDF, 0xF1, 0x79, 0x3D ENDARRAY

/* unstructured SS request result FIE */
BEGINARRAY (A_FAC_USSD_REQ_RES,46) 0x50, 0x01, 0x00, 0x00, 0xA2, 0x28, 0x02, 0x01, 0x80, 0x30, 0x23, 0x02, 0x01, 0x3C, 0x30, 0x1E, 0x04, 0x01, 0x00, 0x04, 0x19, 0x41, 0xE1, 0x90, 0x58, 0x34, 0x1E, 0x91, 0x49, 0xE5, 0x92, 0xD9, 0x74, 0x3E, 0xA1, 0x51, 0xE9, 0x94, 0x5A, 0xB5, 0x5E, 0xB1, 0x59, 0x2D, 0x40, 0x00 ENDARRAY

/* process unstructured SS request FIE */
BEGINARRAY (A_FAC_USSD_PROC,44) 0x40, 0x01, 0x00, 0x00, 0xA1, 0x26, 0x02, 0x01, 0x00, 0x02, 0x01, 0x3B, 0x30, 0x1E, 0x04, 0x01, 0x00, 0x04, 0x19, 0x41, 0xE1, 0x90, 0x58, 0x34, 0x1E, 0x91, 0x49, 0xE5, 0x92, 0xD9, 0x74, 0x3E, 0xA1, 0x51, 0xE9, 0x94, 0x5A, 0xB5, 0x5E, 0xB1, 0x59, 0x2D, 0x40, 0x00 ENDARRAY

/* process unstructured SS request result FIE */
BEGINARRAY (A_FAC_USSD_PROC_RES,44) 0x58, 0x01, 0x00, 0x00, 0xA2, 0x26, 0x02, 0x01, 0x00, 0x30, 0x24, 0x02, 0x01, 0x3B, 0x30, 0x1C, 0x04, 0x01, 0xA5, 0x04, 0x17, 0x61, 0xF1, 0x98, 0x5C, 0x36, 0x9F, 0xD1, 0x69, 0xF5, 0x9A, 0xDD, 0x76, 0xBF, 0xE1, 0x71, 0xF9, 0x9C, 0x5E, 0xB7, 0xDF, 0xF1, 0x79, 0x3D ENDARRAY

/* process unstructured SS reject FIE */

```
BEGINARRAY (A_FAC_USSD_PROC_REJ,12) 0x40, 0x00, 0x00, 0x00, 0xA4, 0x06, 0x02, 0x01, 0x00, 0x81, 0x01,
0x01 ENDARRAY

/* process unstructured SS request FIE IA5 coded */
BEGINARRAY (A_FAC_USSD_PROC_IA5,42) 0x30, 0x01, 0x00, 0x00, 0xA1, 0x24, 0x02, 0x01, 0x01, 0x02, 0x01,
0x13, 0x16, 0x1C, 0x41, 0x42, 0x43, 0x44, 0x45, 0x46, 0x47, 0x48, 0x49, 0x4A, 0x4B, 0x4C, 0x4D, 0x4E, 0x4F, 0x50,
0x51, 0x52, 0x53, 0x54, 0x55, 0x56, 0x57, 0x58, 0x59, 0x5A, 0x40, 0x24 ENDARRAY

/* unstructured SS data result FIE */
BEGINARRAY (A_FAC_USSD_DAT_RES,43) 0x38, 0x01, 0x00, 0x00, 0xA2, 0x25, 0x02, 0x01, 0x01, 0x30, 0x1F,
0x02, 0x01, 0x13, 0x16, 0x1A, 0x61, 0x62, 0x63, 0x64, 0x65, 0x66, 0x67, 0x68, 0x69, 0x6A, 0x6B, 0x6C, 0x6D, 0x6E,
0x6F, 0x70, 0x71, 0x72, 0x73, 0x74, 0x75, 0x76, 0x77, 0x78, 0x79, 0x7A  ENDARRAY

/* process unstructured SS request FIE initiated by KSD */
BEGINARRAY (A_FAC_USSD_PROC_KSD,24) 0xA0, 0x00, 0x00, 0x00, 0xA1, 0x12, 0x02, 0x01, 0x00, 0x02, 0x01,
0x3B, 0x30, 0x0A, 0x04, 0x01, 0x0F, 0x04, 0x05, 0x2A, 0x15, 0x0C, 0x36, 0x02 ENDARRAY

/* process unstructured SS request FIE inititated by KSD IA5 coded */
BEGINARRAY (A_FAC_USSD_PROC_KSD_IA5,19) 0x78, 0x00, 0x00, 0x00, 0xA1, 0x0D, 0x02, 0x01, 0x01, 0x02,
0x01, 0x13, 0x16, 0x05, 0x2A, 0x2A, 0x30, 0x30, 0x23 ENDARRAY

/*------------------------------------- SS Notify ---------------------------------------------- */
/* SS notify  FIE */
BEGINARRAY (A_FAC_NTFY_SS_1, 60) 0xC0, 0x01, 0x00, 0x00, 0xA1, 0x36, 0x02, 0x01, 0x00, 0x02, 0x01, 0x10,
0x30, 0x3E, 0x81, 0x01, 0x21, 0x84, 0x01, 0x07, 0x8E, 0x00, 0x8F, 0x01, 0x01, 0x90, 0x00, 0x91, 0x02, 0x00, 0x05,
0x92, 0x00, 0xB3, 0x80, 0x80, 0x01, 0x00, 0xA0, 0x80, 0x80, 0x07, 0x81, 0x30, 0x30, 0x09, 0x49, 0x22, 0xF3, 0x81,
0x04, 0x80, 0x21, 0x43, 0x65, 0x00, 0x00, 0x00, 0x00 ENDARRAY

/* check SS FIE */
BEGINARRAY (A_FAC_CHECK_SS, 12) 0x40, 0x00, 0x00, 0x00, 0xA1, 0x06, 0x02, 0x01, 0x00, 0x02, 0x01, 0x26
ENDARRAY

/*-------------------------------------- structures ---------------------------------------------- */

/* plmn declaration */
BEGIN_PSTRUCT ("plmn", F_PLMN_NOT_PRESENT)
        SET_COMP ("v_plmn",         NUM_0)
        SET_COMP ("mcc",            F_MCC_NONE)
        SET_COMP ("mnc",            F_MNC_NONE)
ENDSTRUCT
BEGIN_PSTRUCT ("plmn", S_PLMN_123_45)
        SET_COMP ("v_plmn",         NUM_1)
        SET_COMP ("mcc",            F_MCC_123)
        SET_COMP ("mnc",            F_MNC_45)
ENDSTRUCT

BEGIN_PSTRUCT ("plmn", S_PLMN_262_01)
        SET_COMP ("v_plmn",         NUM_1)
        SET_COMP ("mcc",            F_MCC_262)
        SET_COMP ("mnc",            F_MNC_01)
ENDSTRUCT

BEGIN_PSTRUCT ("plmn", S_PLMN_262_02)
        SET_COMP ("v_plmn",         NUM_1)
        SET_COMP ("mcc",            F_MCC_262)
        SET_COMP ("mnc",            F_MNC_02)
ENDSTRUCT
```

```
BEGIN_PSTRUCT ("plmn", S_PLMN_262_03)
        SET_COMP ("v_plmn",         NUM_1)
        SET_COMP ("mcc",            F_MCC_262)
        SET_COMP ("mnc",            F_MNC_03)
ENDSTRUCT



BEGIN_PSTRUCT ("plmn", S_PLMN_555_55)
        SET_COMP ("v_plmn",         NUM_1)
        SET_COMP ("mcc",            F_MCC_555)
        SET_COMP ("mnc",            F_MNC_55)
ENDSTRUCT

BEGIN_PSTRUCT ("plmn", S_PLMN_FF_000_00)
        SET_COMP ("v_plmn",         NUM_255)
        SET_COMP ("mcc",            F_MCC_000)
        SET_COMP ("mnc",            F_MNC_00)
ENDSTRUCT

BEGIN_PSTRUCT_ARRAY(F_PLMN_LST, 5)
        S_PLMN_262_01,
        S_PLMN_262_02,
        S_PLMN_262_03,
        S_PLMN_FF_000_00,
        S_PLMN_FF_000_00
ENDARRAY



/* bearer service not present */
 BEGIN_PSTRUCT ("bcpara", S_BS_NOT_PRESENT)
        SET_COMP ("rate",           UR_NOT_PRES)
        SET_COMP ("bearer_serv",    BEARER_SERV_NOT_PRES)
        SET_COMP ("conn_elem",      CONN_ELEM_NOT_PRES)
        SET_COMP ("stop_bits",      STOP_1_BIT)
        SET_COMP ("data_bits",      DATA_8_BIT)
        SET_COMP ("parity",         PARITY_NONE)
        SET_COMP ("flow_control",   NO_FLOW_CONTROL)
        SET_COMP ("modem_type",     MT_NONE)
ENDSTRUCT

/* bearer service voice */
 BEGIN_PSTRUCT ("bcpara", S_BS_VOICE)
        SET_COMP ("rate",           UR_NOT_PRES)
        SET_COMP ("bearer_serv",    BEARER_SERV_SPEECH)
        SET_COMP ("conn_elem",      CONN_ELEM_NOT_PRES)
        SET_COMP ("stop_bits",      STOP_1_BIT)
        SET_COMP ("data_bits",      DATA_8_BIT)
        SET_COMP ("parity",         PARITY_NONE)
        SET_COMP ("flow_control",   NO_FLOW_CONTROL)
        SET_COMP ("modem_type",     MT_NONE)
ENDSTRUCT

/* bearer service emergency */
 BEGIN_PSTRUCT ("bcpara", S_BS_EMERG)
        SET_COMP ("rate",           UR_NOT_PRES)
```

```
                SET_COMP ("bearer_serv",        BEARER_SERV_SPEECH)
                SET_COMP ("conn_elem",          CONN_ELEM_NOT_PRES)
                SET_COMP ("stop_bits",          STOP_1_BIT)
                SET_COMP ("data_bits",          DATA_8_BIT)
                SET_COMP ("parity",             PARITY_NONE)
                SET_COMP ("flow_control",       NO_FLOW_CONTROL)
                SET_COMP ("modem_type",         MT_NONE)
ENDSTRUCT

/* bearer service DATA 300 */
 BEGIN_PSTRUCT ("bcpara", S_BS_DAT_TRA_300)
                SET_COMP ("rate",               UR_0_3_KBIT)
                SET_COMP ("bearer_serv",        BEARER_SERV_ASYNC)
                SET_COMP ("conn_elem",          CONN_ELEM_TRANS)
                SET_COMP ("stop_bits",          STOP_1_BIT)
                SET_COMP ("data_bits",          DATA_8_BIT)
                SET_COMP ("parity",             PARITY_NONE)
                SET_COMP ("flow_control",       NO_FLOW_CONTROL)
                SET_COMP ("modem_type",         MT_V21)
ENDSTRUCT

/* bearer service DATA 300 */
 BEGIN_PSTRUCT ("bcpara", S_BS_DAT_TRA_300_V110)
                SET_COMP ("rate",               UR_0_3_KBIT)
                SET_COMP ("bearer_serv",        BEARER_SERV_ASYNC)
                SET_COMP ("conn_elem",          CONN_ELEM_TRANS)
                SET_COMP ("stop_bits",          STOP_1_BIT)
                SET_COMP ("data_bits",          DATA_8_BIT)
                SET_COMP ("parity",             PARITY_NONE)
                SET_COMP ("flow_control",       NO_FLOW_CONTROL)
                SET_COMP ("modem_type",         MT_NONE)
ENDSTRUCT

/* bearer service DATA 1200 */
 BEGIN_PSTRUCT ("bcpara", S_BS_DAT_TRA_1200)
                SET_COMP ("rate",               UR_1_2_KBIT)
                SET_COMP ("bearer_serv",        BEARER_SERV_ASYNC)
                SET_COMP ("conn_elem",          CONN_ELEM_TRANS)
                SET_COMP ("stop_bits",          STOP_1_BIT)
                SET_COMP ("data_bits",          DATA_8_BIT)
                SET_COMP ("parity",             PARITY_NONE)
                SET_COMP ("flow_control",       NO_FLOW_CONTROL)
                SET_COMP ("modem_type",         MT_V22)
ENDSTRUCT

/* bearer service DATA 1200/75 bps */
 BEGIN_PSTRUCT ("bcpara", S_BS_DAT_TRA_1200_75)
                SET_COMP ("rate",               UR_1_2_KBIT_V23)
                SET_COMP ("bearer_serv",        BEARER_SERV_ASYNC)
                SET_COMP ("conn_elem",          CONN_ELEM_TRANS)
                SET_COMP ("stop_bits",          STOP_1_BIT)
                SET_COMP ("data_bits",          DATA_8_BIT)
                SET_COMP ("parity",             PARITY_NONE)
                SET_COMP ("flow_control",       NO_FLOW_CONTROL)
                SET_COMP ("modem_type",         MT_V23)
ENDSTRUCT
```

```
/* bearer service DATA 1200 with speed Nr. 34 (GSM 7.07)*/
 BEGIN_PSTRUCT ("bcpara", S_BS_DAT_TRA_1200_TM_NONE)
            SET_COMP ("rate",           UR_1_2_KBIT)
            SET_COMP ("bearer_serv",    BEARER_SERV_ASYNC)
            SET_COMP ("conn_elem",      CONN_ELEM_TRANS)
            SET_COMP ("stop_bits",      STOP_1_BIT)
            SET_COMP ("data_bits",      DATA_8_BIT)
            SET_COMP ("parity",         PARITY_NONE)
            SET_COMP ("flow_control",   NO_FLOW_CONTROL)
            SET_COMP ("modem_type",     MT_NONE)
ENDSTRUCT

/* bearer service DATA 2400 */
 BEGIN_PSTRUCT ("bcpara", S_BS_DAT_TRA_2400)
            SET_COMP ("rate",           UR_2_4_KBIT)
            SET_COMP ("bearer_serv",    BEARER_SERV_ASYNC)
            SET_COMP ("conn_elem",      CONN_ELEM_TRANS)
            SET_COMP ("stop_bits",      STOP_1_BIT)
            SET_COMP ("data_bits",      DATA_8_BIT)
            SET_COMP ("parity",         PARITY_NONE)
            SET_COMP ("flow_control",   NO_FLOW_CONTROL)
            SET_COMP ("modem_type",     MT_V22_BIS)
ENDSTRUCT

/* bearer service DATA 2400 */
 BEGIN_PSTRUCT ("bcpara", S_BS_DAT_TRA_2400_V26)
            SET_COMP ("rate",           UR_2_4_KBIT)
            SET_COMP ("bearer_serv",    BEARER_SERV_ASYNC)
            SET_COMP ("conn_elem",      CONN_ELEM_TRANS)
            SET_COMP ("stop_bits",      STOP_1_BIT)
            SET_COMP ("data_bits",      DATA_8_BIT)
            SET_COMP ("parity",         PARITY_NONE)
            SET_COMP ("flow_control",   NO_FLOW_CONTROL)
            SET_COMP ("modem_type",     MT_V26_TER)
ENDSTRUCT

/* bearer service DATA 2400 */
 BEGIN_PSTRUCT ("bcpara", S_BS_DAT_TRA_2400_V120)
            SET_COMP ("rate",           UR_2_4_KBIT)
            SET_COMP ("bearer_serv",    BEARER_SERV_ASYNC)
            SET_COMP ("conn_elem",      CONN_ELEM_TRANS)
            SET_COMP ("stop_bits",      STOP_1_BIT)
            SET_COMP ("data_bits",      DATA_8_BIT)
            SET_COMP ("parity",         PARITY_NONE)
            SET_COMP ("flow_control",   NO_FLOW_CONTROL)
            SET_COMP ("modem_type",     MT_NONE)
ENDSTRUCT

/* bearer service DATA 4800 */
 BEGIN_PSTRUCT ("bcpara", S_BS_DAT_TRA_4800)
            SET_COMP ("rate",           UR_4_8_KBIT)
            SET_COMP ("bearer_serv",    BEARER_SERV_ASYNC)
            SET_COMP ("conn_elem",      CONN_ELEM_TRANS)
            SET_COMP ("stop_bits",      STOP_1_BIT)
            SET_COMP ("data_bits",      DATA_8_BIT)
            SET_COMP ("parity",         PARITY_NONE)
            SET_COMP ("flow_control",   NO_FLOW_CONTROL)
```

```
                SET_COMP ("modem_type",             MT_V32)
ENDSTRUCT

/* bearer service DATA 4800 */
 BEGIN_PSTRUCT ("bcpara", S_BS_DAT_TRA_4800_V120)
                SET_COMP ("rate",                   UR_4_8_KBIT)
                SET_COMP ("bearer_serv",            BEARER_SERV_ASYNC)
                SET_COMP ("conn_elem",              CONN_ELEM_TRANS)
                SET_COMP ("stop_bits",              STOP_1_BIT)
                SET_COMP ("data_bits",              DATA_8_BIT)
                SET_COMP ("parity",                 PARITY_NONE)
                SET_COMP ("flow_control",           NO_FLOW_CONTROL)
                SET_COMP ("modem_type",             MT_NONE)
ENDSTRUCT

/* bearer service transparent data 9600 */
 BEGIN_PSTRUCT ("bcpara", S_BS_DAT_TRA_9600)
                SET_COMP ("rate",                   UR_9_6_KBIT)
                SET_COMP ("bearer_serv",            BEARER_SERV_ASYNC)
                SET_COMP ("conn_elem",              CONN_ELEM_TRANS)
                SET_COMP ("stop_bits",              STOP_1_BIT)
                SET_COMP ("data_bits",              DATA_8_BIT)
                SET_COMP ("parity",                 PARITY_NONE)
                SET_COMP ("flow_control",           NO_FLOW_CONTROL)
                SET_COMP ("modem_type",             MT_V32)
ENDSTRUCT

/* bearer service transparent data 9600 */
 BEGIN_PSTRUCT ("bcpara", S_BS_DAT_TRA_9600_V34)
                SET_COMP ("rate",                   UR_9_6_KBIT)
                SET_COMP ("bearer_serv",            BEARER_SERV_ASYNC)
                SET_COMP ("conn_elem",              CONN_ELEM_TRANS)
                SET_COMP ("stop_bits",              STOP_1_BIT)
                SET_COMP ("data_bits",              DATA_8_BIT)
                SET_COMP ("parity",                 PARITY_NONE)
                SET_COMP ("flow_control",           NO_FLOW_CONTROL)
                SET_COMP ("modem_type",             MT_V34)
ENDSTRUCT

/* bearer service transparent data 9600 */
 BEGIN_PSTRUCT ("bcpara", S_BS_DAT_TRA_9600_V120)
                SET_COMP ("rate",                   UR_9_6_KBIT)
                SET_COMP ("bearer_serv",            BEARER_SERV_ASYNC)
                SET_COMP ("conn_elem",              CONN_ELEM_TRANS)
                SET_COMP ("stop_bits",              STOP_1_BIT)
                SET_COMP ("data_bits",              DATA_8_BIT)
                SET_COMP ("parity",                 PARITY_NONE)
                SET_COMP ("flow_control",           NO_FLOW_CONTROL)
                SET_COMP ("modem_type",             MT_NONE)
ENDSTRUCT

/* bearer service transparent data 14400 V34 */
 BEGIN_PSTRUCT ("bcpara", S_BS_DAT_TRA_14400_V34)
                SET_COMP ("rate",                   UR_14_4_KBIT)
                SET_COMP ("bearer_serv",            BEARER_SERV_ASYNC)
                SET_COMP ("conn_elem",              CONN_ELEM_TRANS)
                SET_COMP ("stop_bits",              STOP_1_BIT)
                SET_COMP ("data_bits",              DATA_8_BIT)
```

```
                SET_COMP ("parity",                 PARITY_NONE)
                SET_COMP ("flow_control",           NO_FLOW_CONTROL)
                SET_COMP ("modem_type",             MT_V34)
ENDSTRUCT

/* bearer service transparent data 14400 V120 */
 BEGIN_PSTRUCT ("bcpara", S_BS_DAT_TRA_14400_V120)
                SET_COMP ("rate",                   UR_14_4_KBIT)
                SET_COMP ("bearer_serv",            BEARER_SERV_ASYNC)
                SET_COMP ("conn_elem",              CONN_ELEM_TRANS)
                SET_COMP ("stop_bits",              STOP_1_BIT)
                SET_COMP ("data_bits",              DATA_8_BIT)
                SET_COMP ("parity",                 PARITY_NONE)
                SET_COMP ("flow_control",           NO_FLOW_CONTROL)
                SET_COMP ("modem_type",             MT_NONE)
ENDSTRUCT

/* bearer service FAX 9600 */
 BEGIN_PSTRUCT ("bcpara", S_BS_FAX)
                SET_COMP ("rate",                   UR_9_6_KBIT)
                SET_COMP ("bearer_serv",            BEARER_SERV_FAX)
                SET_COMP ("conn_elem",              CONN_ELEM_TRANS)
                SET_COMP ("stop_bits",              STOP_1_BIT)
                SET_COMP ("data_bits",              DATA_8_BIT)
                SET_COMP ("parity",                 PARITY_NONE)
                SET_COMP ("flow_control",           NO_FLOW_CONTROL)
                SET_COMP ("modem_type",             MT_NONE)
ENDSTRUCT

/* bearer service FAX 14400 */
 BEGIN_PSTRUCT ("bcpara", S_BS_FAX_14400)
                SET_COMP ("rate",                   UR_14_4_KBIT)
                SET_COMP ("bearer_serv",            BEARER_SERV_FAX)
                SET_COMP ("conn_elem",              CONN_ELEM_TRANS)
                SET_COMP ("stop_bits",              STOP_1_BIT)
                SET_COMP ("data_bits",              DATA_8_BIT)
                SET_COMP ("parity",                 PARITY_NONE)
                SET_COMP ("flow_control",           NO_FLOW_CONTROL)
                SET_COMP ("modem_type",             MT_NONE)
ENDSTRUCT

/* bearer service non-transparent data 9600 */
 BEGIN_PSTRUCT ("bcpara", S_BS_DAT_9600_ASY_NTRA)
            SET_COMP ("rate",         UR_9_6_KBIT)
            SET_COMP ("bearer_serv",          BEARER_SERV_ASYNC)
            SET_COMP ("conn_elem",            CONN_ELEM_NON_TRANS)
            SET_COMP ("stop_bits",  STOP_1_BIT)
            SET_COMP ("data_bits",  DATA_8_BIT)
            SET_COMP ("parity",       PARITY_NONE)
            SET_COMP ("flow_control",         NO_FLOW_CONTROL)
            SET_COMP ("modem_type",           MT_NONE)
ENDSTRUCT

/* bearer service default */
 BEGIN_PSTRUCT ("bcpara", S_BS_DEF)
                SET_COMP ("rate",                   UR_9_6_KBIT)
                SET_COMP ("bearer_serv",            BEARER_SERV_FAX)
                SET_COMP ("conn_elem",              CONN_ELEM_TRANS)
```

```
                SET_COMP ("stop_bits",          STOP_1_BIT)
                SET_COMP ("data_bits",          DATA_8_BIT)
                SET_COMP ("parity",             PARITY_NONE)
                SET_COMP ("flow_control",       NO_FLOW_CONTROL)
                SET_COMP ("modem_type",         MT_NONE)
ENDSTRUCT

/* bearer service transparent data prefer 14400 */
 BEGIN_PSTRUCT ("bcpara", S_BS_DAT_14400_ASY_BTP)
                SET_COMP ("rate",               UR_14_4_KBIT)
                SET_COMP ("bearer_serv",        BEARER_SERV_ASYNC)
                SET_COMP ("conn_elem",          CONN_ELEM_TRANS_PREF)
                SET_COMP ("stop_bits",          STOP_1_BIT)
                SET_COMP ("data_bits",          DATA_8_BIT)
                SET_COMP ("parity",             PARITY_NONE)
                SET_COMP ("flow_control",       NO_FLOW_CONTROL)
                SET_COMP ("modem_type",         MT_NONE)
ENDSTRUCT

/* calling party address */
 BEGIN_PSTRUCT ("calling_party", S_CLG_PARTY)
                SET_COMP ("ton",                TON_UNKNOWN)
                SET_COMP ("npi",                NPI_ISDN_TEL_NUMB_PLAN)
                SET_COMP ("present",            PRES_PRES_ALLOW)
                SET_COMP ("screen",             SCREEN_IND_NOT_PRES)
                SET_COMP ("c_num",              LA_CLG_NUM)
                SET_COMP ("num",                A_CLG_NUM)
ENDSTRUCT

/* calling party sub address */
 BEGIN_PSTRUCT ("calling_party_sub", S_CLG_PARTY_SUB)
                SET_COMP ("tos",                TOS_NOT_PRES)
                SET_COMP ("odd_even",           OE_EVEN)
                SET_COMP ("c_subaddr",          NUM_0)
                SKIP_COMP ("subaddr")
ENDSTRUCT

/* calling party emergency address */
 BEGIN_PSTRUCT ("calling_party", S_CLG_EMERG)
                SET_COMP ("ton",                TON_UNKNOWN)
                SET_COMP ("npi",                NPI_ISDN_TEL_NUMB_PLAN)
                SET_COMP ("present",            PRES_PRES_ALLOW)
                SET_COMP ("screen",             SCREEN_IND_NOT_PRES)
                SET_COMP ("c_num",              LA_CLG_EMERG)
                SET_COMP ("num",                A_CLG_EMERG)
ENDSTRUCT

/* calling party emergency sub address */
 BEGIN_PSTRUCT ("calling_party_sub", S_CLG_EMERG_SUB)
                SET_COMP ("tos",                TOS_NOT_PRES)
                SET_COMP ("odd_even",           OE_EVEN)
                SET_COMP ("c_subaddr",          NUM_0)
                SKIP_COMP ("subaddr")
ENDSTRUCT

/* called party address national*/
 BEGIN_PSTRUCT ("called_party", S_CLD_PARTY)
                SET_COMP ("ton",                TON_UNKNOWN)
```

```
                SET_COMP ("npi",                NPI_ISDN_TEL_NUMB_PLAN)
                SET_COMP ("c_num",              LA_CLD_NUM)
                SET_COMP ("num",                A_CLD_NUM)
ENDSTRUCT

/* called party emrgency address*/
 BEGIN_PSTRUCT ("called_party", S_CLD_EMERG)
                SET_COMP ("ton",                TON_UNKNOWN)
                SET_COMP ("npi",                NPI_ISDN_TEL_NUMB_PLAN)
                SET_COMP ("c_num",              LA_CLD_EMERG)
                SET_COMP ("num",                A_CLD_EMERG)
ENDSTRUCT

/* called party address international*/
 BEGIN_PSTRUCT ("called_party", S_CLD_PARTY_INT)
                SET_COMP ("ton",                TON_INT_NUMB)
                SET_COMP ("npi",                NPI_ISDN_TEL_NUMB_PLAN)
                SET_COMP ("c_num",              LA_CLD_NUM_INT)
                SET_COMP ("num",                A_CLD_NUM_INT)
ENDSTRUCT

/* called party sub address */
 BEGIN_PSTRUCT ("called_party_sub", S_CLD_PARTY_SUB)
                SET_COMP ("tos",                TOS_NOT_PRES)
                SET_COMP ("odd_even",           OE_EVEN)
                SET_COMP ("c_subaddr",          NUM_0)
                SKIP_COMP ("subaddr")
ENDSTRUCT

/* called party emergency sub address */
 BEGIN_PSTRUCT ("called_party_sub", S_CLD_EMERG_SUB)
                SET_COMP ("tos",                TOS_NOT_PRES)
                SET_COMP ("odd_even",           OE_EVEN)
                SET_COMP ("c_subaddr",          NUM_0)
                SKIP_COMP ("subaddr")
ENDSTRUCT

/* forward advice of charge info */
 BEGIN_PSTRUCT ("fac_inf", S_FAC_AOC)
                SET_COMP ("l_fac",              LA_FAC_AOC)
                SET_COMP ("o_fac",              NUM_0)
                SET_COMP ("fac",                A_FAC_AOC)
ENDSTRUCT

/* speech full rate */
 BEGIN_PSTRUCT ("chm", S_CHN_SPEECH)
                SET_COMP ("ch_type",            CH_TCH_F)
                SET_COMP ("ch_mode",            CHM_SPEECH)
ENDSTRUCT

/* data full rate 9600 */
 BEGIN_PSTRUCT ("chm", S_CHN_FULL_9600)
                SET_COMP ("ch_type",            CH_TCH_F)
                SET_COMP ("ch_mode",            CHM_DATA_9_6)
ENDSTRUCT

/* called_party (Called party BCD number) */
BEGIN_PSTRUCT ("called_party", CLED_PARTY0)
```

```
            SET_COMP ("ton",                TON_UNKNOWN)
            SET_COMP ("npi",                NPI_ISDN_TEL_NUMB_PLAN)
            SET_COMP ("c_num",              NUM_8)
            SET_COMP ("num",                PHN_NUM0)
ENDSTRUCT

BEGIN_PSTRUCT ("called_party", CLED_PARTY1)
            SET_COMP ("ton",                TON_INT_NUMB)
            SET_COMP ("npi",                NPI_ISDN_TEL_NUMB_PLAN)
            SET_COMP ("c_num",              NUM_10)
            SET_COMP ("num",                PHN_NUM1)
ENDSTRUCT
```

/* called_party_sub (Called party subaddress) */

```
 BEGIN_PSTRUCT ("called_party_sub", CLED_PARTY_SUB_NONE)
            SET_COMP ("tos",                TOS_NOT_PRES)
            SET_COMP ("odd_even",           OE_EVEN)
            SET_COMP ("c_subaddr",          NUM_0)
            SET_COMP ("subaddr",            EMPTY_PHN_NUM)
ENDSTRUCT
```

/* connected_number (Connected number) */

```
BEGIN_PSTRUCT ("connected_number", CONNECTED_NUMBER0)
            SET_COMP ("ton",                TON_UNKNOWN)
            SET_COMP ("npi",                NPI_ISDN_TEL_NUMB_PLAN)
            SET_COMP ("present",            TOS_NOT_PRES)
            SET_COMP ("screen",             SCREEN_USER_PROV_NOT_SCREEN)
            SET_COMP ("c_num",              NUM_8)
            SET_COMP ("num",                PHN_NUM0)
ENDSTRUCT

BEGIN_PSTRUCT ("connected_number", CONNECTED_NUMBER1)
        SET_COMP ("ton",        TON_INT_NUMB)
        SET_COMP ("npi",        NPI_ISDN_TEL_NUMB_PLAN)
        SET_COMP ("present",    TOS_NOT_PRES)
        SET_COMP ("screen",     SCREEN_USER_PROV_NOT_SCREEN)
        SET_COMP ("c_num",      NUM_10)
        SET_COMP ("num",        PHN_NUM1)
ENDSTRUCT

/* DCS frame */
 BEGIN_PSTRUCT ("dcs", S_DCS)
            SKIP_COMP ("v8")
            SKIP_COMP ("n_byte")
            SKIP_COMP ("ready_tx_fax")
            SKIP_COMP ("rec_fax_op")
            SKIP_COMP ("data_sig_rate")
            SKIP_COMP ("R8_lines_pels")
            SKIP_COMP ("two_dim_coding")
            SKIP_COMP ("rec_width")
            SKIP_COMP ("max_rec_len")
            SKIP_COMP ("min_scan_time")
            SKIP_COMP ("uncomp_mode")
            SKIP_COMP ("err_corr_mode")
            SKIP_COMP ("frame_size")
            SKIP_COMP ("t6_coding")
            SKIP_COMP ("R8_lines")
            SKIP_COMP ("r_300_pels")
```

```
            SKIP_COMP ("R16_lines_pels")
            SKIP_COMP ("resolution_type")
            SKIP_COMP ("i_res_pref")
            SKIP_COMP ("m_res_pref")
            SKIP_COMP ("min_scan_time_hr")
            SKIP_COMP ("sel_polling")
            SKIP_COMP ("subaddr")
            SKIP_COMP ("password")
            SKIP_COMP ("ready_tx_doc")
            SKIP_COMP ("bft")
            SKIP_COMP ("dtm")
            SKIP_COMP ("edi")
            SKIP_COMP ("btm")
            SKIP_COMP ("ready_tx_mixed")
            SKIP_COMP ("char_mode")
            SKIP_COMP ("mixed_mode")
            SKIP_COMP ("proc_mode_26")
            SKIP_COMP ("dig_network_cap")
            SKIP_COMP ("duplex")
            SKIP_COMP ("jpeg")
            SKIP_COMP ("full_colour")
            SKIP_COMP ("huffman_tables")
            SKIP_COMP ("r_12_bits_pel_comp")
            SKIP_COMP ("no_subsamp")
            SKIP_COMP ("cust_illum")
            SKIP_COMP ("cust_gamut")
            SKIP_COMP ("na_letter")
            SKIP_COMP ("na_legal")
            SKIP_COMP ("sing_prog_seq_coding_basic")
            SKIP_COMP ("sing_prog_seq_coding_L0")
ENDSTRUCT

/* DIS frame */
 BEGIN_PSTRUCT ("dis", S_DIS)
            SKIP_COMP ("v8")
            SKIP_COMP ("n_byte")
            SKIP_COMP ("ready_tx_fax")
            SKIP_COMP ("rec_fax_op")
            SKIP_COMP ("data_sig_rate")
            SKIP_COMP ("R8_lines_pels")
            SKIP_COMP ("two_dim_coding")
            SKIP_COMP ("rec_width")
            SKIP_COMP ("max_rec_len")
            SKIP_COMP ("min_scan_time")
            SKIP_COMP ("uncomp_mode")
            SKIP_COMP ("err_corr_mode")
            SKIP_COMP ("frame_size")
            SKIP_COMP ("t6_coding")
            SKIP_COMP ("R8_lines")
            SKIP_COMP ("r_300_pels")
            SKIP_COMP ("R16_lines_pels")
            SKIP_COMP ("resolution_type")
            SKIP_COMP ("i_res_pref")
            SKIP_COMP ("m_res_pref")
            SKIP_COMP ("min_scan_time_hr")
            SKIP_COMP ("sel_polling")
            SKIP_COMP ("subaddr")
            SKIP_COMP ("password")
```

```
            SKIP_COMP ("ready_tx_doc")
            SKIP_COMP ("bft")
            SKIP_COMP ("dtm")
            SKIP_COMP ("edi")
            SKIP_COMP ("btm")
            SKIP_COMP ("ready_tx_mixed")
            SKIP_COMP ("char_mode")
            SKIP_COMP ("mixed_mode")
            SKIP_COMP ("proc_mode_26")
            SKIP_COMP ("dig_network_cap")
            SKIP_COMP ("duplex")
            SKIP_COMP ("jpeg")
            SKIP_COMP ("full_colour")
            SKIP_COMP ("huffman_tables")
            SKIP_COMP ("r_12_bits_pel_comp")
            SKIP_COMP ("no_subsamp")
            SKIP_COMP ("cust_illum")
            SKIP_COMP ("cust_gamut")
            SKIP_COMP ("na_letter")
            SKIP_COMP ("na_legal")
            SKIP_COMP ("sing_prog_seq_coding_basic")
            SKIP_COMP ("sing_prog_seq_coding_L0")
ENDSTRUCT

/* DTC frame */
 BEGIN_PSTRUCT ("dtc", S_DTC)
            SKIP_COMP ("v8")
            SKIP_COMP ("n_byte")
            SKIP_COMP ("ready_tx_fax")
            SKIP_COMP ("rec_fax_op")
            SKIP_COMP ("data_sig_rate")
            SKIP_COMP ("R8_lines_pels")
            SKIP_COMP ("two_dim_coding")
            SKIP_COMP ("rec_width")
            SKIP_COMP ("max_rec_len")
            SKIP_COMP ("min_scan_time")
            SKIP_COMP ("uncomp_mode")
            SKIP_COMP ("err_corr_mode")
            SKIP_COMP ("frame_size")
            SKIP_COMP ("t6_coding")
            SKIP_COMP ("R8_lines")
            SKIP_COMP ("r_300_pels")
            SKIP_COMP ("R16_lines_pels")
            SKIP_COMP ("resolution_type")
            SKIP_COMP ("i_res_pref")
            SKIP_COMP ("m_res_pref")
            SKIP_COMP ("min_scan_time_hr")
            SKIP_COMP ("sel_polling")
            SKIP_COMP ("subaddr")
            SKIP_COMP ("password")
            SKIP_COMP ("ready_tx_doc")
            SKIP_COMP ("bft")
            SKIP_COMP ("dtm")
            SKIP_COMP ("edi")
            SKIP_COMP ("btm")
            SKIP_COMP ("ready_tx_mixed")
            SKIP_COMP ("char_mode")
            SKIP_COMP ("mixed_mode")
```

```
                SKIP_COMP ("proc_mode_26")
                SKIP_COMP ("dig_network_cap")
                SKIP_COMP ("duplex")
                SKIP_COMP ("jpeg")
                SKIP_COMP ("full_colour")
                SKIP_COMP ("huffman_tables")
                SKIP_COMP ("r_12_bits_pel_comp")
                SKIP_COMP ("no_subsamp")
                SKIP_COMP ("cust_illum")
                SKIP_COMP ("cust_gamut")
                SKIP_COMP ("na_letter")
                SKIP_COMP ("na_legal")
                SKIP_COMP ("sing_prog_seq_coding_basic")
                SKIP_COMP ("sing_prog_seq_coding_L0")
ENDSTRUCT

/* HDLC frame */
 BEGIN_PSTRUCT ("hdlc_info", S_HDLC_DCS)
                SET_COMP ("crp",                NUM_0)
                SET_COMP ("c_pwd",              NUM_0)
                SKIP_COMP ("pwd")
                SET_COMP ("c_sub",              NUM_0)
                SKIP_COMP ("sub")
                SET_COMP ("c_sep",              NUM_0)
                SKIP_COMP ("sep")
                SET_COMP ("c_nsc",              NUM_0)
                SKIP_COMP ("nsc")
                SET_COMP ("c_nsf",              NUM_0)
                SKIP_COMP ("nsf")
                SET_COMP ("c_tsi",              NUM_0)
                SKIP_COMP ("tsi")
                SET_COMP ("c_cig",              NUM_0)
                SKIP_COMP ("cig")
                SET_COMP ("c_csi",              NUM_0)
                SKIP_COMP ("csi")
                SET_COMP ("c_nss",              NUM_0)
                SKIP_COMP ("nss")
                SET_COMP ("v_dis",              NUM_0)
                SKIP_COMP ("dis")
                SET_COMP ("v_dcs",              NUM_1)
                SET_COMP ("dcs",                S_DCS)
                SET_COMP ("v_dtc",              NUM_0)
                SKIP_COMP ("dtc")
ENDSTRUCT
BEGIN_PSTRUCT ("hdlc_info", S_HDLC_DIS)
                SET_COMP ("crp",                NUM_0)
                SET_COMP ("c_pwd",              NUM_0)
                SKIP_COMP ("pwd")
                SET_COMP ("c_sub",              NUM_0)
                SKIP_COMP ("sub")
                SET_COMP ("c_sep",              NUM_0)
                SKIP_COMP ("sep")
                SET_COMP ("c_nsc",              NUM_0)
                SKIP_COMP ("nsc")
                SET_COMP ("c_nsf",              NUM_0)
                SKIP_COMP ("nsf")
                SET_COMP ("c_tsi",              NUM_0)
                SKIP_COMP ("tsi")
```

```
            SET_COMP ("c_cig",              NUM_0)
            SKIP_COMP ("cig")
            SET_COMP ("c_csi",              NUM_0)
            SKIP_COMP ("csi")
            SET_COMP ("c_nss",              NUM_0)
            SKIP_COMP ("nss")
            SET_COMP ("v_dis",              NUM_1)
            SET_COMP ("dis",                S_DIS)
            SET_COMP ("v_dcs",              NUM_0)
            SKIP_COMP ("dcs")
            SET_COMP ("v_dtc",              NUM_0)
            SKIP_COMP ("dtc")
ENDSTRUCT

BEGIN_PSTRUCT ("imsi_field", IMSI_FIELD)
            SET_COMP ("c_field",            0x09)
            SET_COMP ("field",              IMSI_FIELD_DATA)
ENDSTRUCT

BEGIN_PSTRUCT ("pref_plmn", PREF_PLMN)
            SET_COMP ("c_pref",             0x60)
            SET_COMP ("pref",               PREF_PLMN_DATA)
ENDSTRUCT
BEGIN_PSTRUCT ("sms_msg", SM7_SPECIAL_SIGNS)
        SET_COMP ("c_msg",    L_SM7_SPECIAL_SIGNS)
        SET_COMP ("s_msg",    D_SM7_SPECIAL_SIGNS)
ENDSTRUCT
/* short messages */
BEGIN_PSTRUCT ("sms_msg", SM7_ABCDEFGHI)
        SET_COMP ("c_msg",    L_SM7_ABCDEFGHI)
        SET_COMP ("s_msg",    D_SM7_ABCDEFGHI)
ENDSTRUCT
BEGIN_PSTRUCT ("sms_msg", SM8_HEX_SPECIAL_SIGNS)
        SET_COMP ("c_msg",    L_SM8_HEX_SPECIAL_SIGNS)
        SET_COMP ("s_msg",    D_SM8_HEX_SPECIAL_SIGNS)
ENDSTRUCT
/* command data */
BEGIN_PSTRUCT ("cmd_data", CMD_DATA_EMPTY)
        SET_COMP ("c_cmd",    L_CMD_DATA_EMPTY)
        SET_COMP ("s_cmd",    D_CMD_DATA_EMPTY)
ENDSTRUCT
```

4 TEST CASES

4.1 Routing (internal) (ACIATI001 - ACIATI010)

4.1.1 ACIATI001: Setup the Routing and the PCO view for the ACI test, and set ACI to transparent mode

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 (PL 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 (PL 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 T30 TAP)
COMMAND (MMI REDIRECT L2R TAP)
COMMAND (MMI REDIRECT RA TAP)
COMMAND (PL REDIRECT MMI NULL)
      |                            |                            |
COMMAND (TAP REDIRECT TAP MMI)
COMMAND (MMI REDIRECT MMI TAP)
      |                            |                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value

History:	14.12.98	AK	Initial

4.1.2 ACIATI002: Power On

Description:

activate SIM card at power on

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |       (cmd: +CMEE=2)       |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
(3)   |        ACI_CMD_REQ         |                            |
      |       (cmd: +CFUN=1)       |                            |
      *==========================>*                            |
(4)   |                            |      SIM_ACTIVATE_REQ      |
      |                            *==========================>*
(5)   |                            |      SIM_ACTIVATE_CNF      |
      |                            *<==========================*
(6)   |                            |     SIM_MMI_INSERT_IND     |
      |                            *<==========================*
(7)   |                            |        SIM_READ_REQ        |
      |                            *==========================>*
(8)   |                            |        SIM_READ_CNF        |
      |                            *<==========================*
(9)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CMEE_VERB
	cmd_seq	C_PLUS_CMEE_VERB
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CFUN_FULL
	cmd_seq	C_PLUS_CFUN_FULL
(4) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	NOT_USED
	stk_pro_file	NOT_USED
(5) SIM_ACTIVATE_CNF		
	error	SIM_NO_ERROR

	pin_cnt	NUM_3
	puk_cnt	NUM_9
	pin2_cnt	NUM_3
	puk2_cnt	NUM_9
	ec_code	NOT_USED
	pref_lang	NOT_USED
(6) SIM_MMI_INSERT_IND		
	func	SIM_ADN_ENABLED
	sim_serv	NOT_USED
	imsi_field	NOT_USED
	pref_plmn	NOT_USED
	phase	PHASE_2_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED
(7) SIM_READ_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_ECC
	length	NOT_PRESENT_8BIT
	max_length	NUM_0
(8) SIM_READ_CNF		
	datafield	SIM_ECC
	error	SIM_NO_ERROR
	length	NUM_12
	trans_data	A_ECC_FIELD
(9) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
History: 10.08.98	ACI	Initial

4.2 Network Registration.."+COPS"(ACIATI003 - ACIATI010)

4.2.1 ACIATI003: service available

Description:

registration to network ends up with full service available

Preamble:

ACIATI002

Variants: <A>....<B>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +COPS=0,0)     |                            |
      *==========================>*                            |
(2)   |                            |      MMR_PLMN_MODE_REQ     |
      |                            *==========================> *
(3)   |                            |         MMR_REG_REQ        |
      |                            *==========================> *
(4)   |                            |         MMR_REG_CNF        |
      |                            *<========================== *
(5)   |                            |      MMR_PLMN_MODE_REQ     |
      |                            *==========================> *
(6)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(7)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +COPS?)       |                            |
      *==========================>*                            |
(8)   |         ACI_CMD_IND        |                            |
      |   (msg: +COPS:0,2,"...")   |                            |
      *<==========================*                            |
(9)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_COPS_REG
	cmd_seq	C_PLUS_COPS_REG
(2) MMR_PLMN_MODE_REQ		
	mode	MODE_AUTO
(3) MMR_REG_REQ		
	service_mode	SERVICE_MODE_FULL
(4) MMR_REG_CNF		
<A>	plmn	S_PLMN_262_01
<B>	plmn	S_PLMN_555_55
(5) MMR_PLMN_MODE_REQ		
	mode	MODE_AUTO
(6) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(7) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_COPS_QUE
	cmd_seq	C_PLUS_COPS_QUE
(8) ACI_CMD_IND		
<A>	cmd_len	LM_PLUS_COPS_AUT_LNG_26201
<B>	cmd_len	LM_PLUS_COPS_AUT_LNG_55555

<A>	cmd_seq	M_PLUS_COPS_AUT_LNG_26201
<B>	cmd_seq	M_PLUS_COPS_AUT_LNG_55555
(9) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 10.08.98 ACI Initial

4.2.2 ACIATI004: limited service available

Description:

registration to network ends up with limited service available

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: +COPS=0,0)      |                            |
      *==========================>*                            |
(2)   |                            |     MMR_PLMN_MODE_REQ      |
      |                            *==========================>*
(3)   |                            |        MMR_REG_REQ         |
      |                            *==========================>*
(4)   |                            |       MMR_NREG_IND         |
      |                            *<==========================*
(5)   |                            |     MMR_PLMN_MODE_REQ      |
      |                            *==========================>*
(6)   |        ACI_CMD_IND         |                            |
      |         (msg: err)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_COPS_REG
	cmd_seq	C_PLUS_COPS_REG
(2) MMR_PLMN_MODE_REQ		
	mode	MODE_AUTO
(3) MMR_REG_REQ		
	service_mode	SERVICE_MODE_FULL
(4) MMR_NREG_IND		
	nreg_cs	NREG_LIMITED_SERVICE
	search_running	SEARCH_NOT_RUNNING
	new_forb_plmn	F_PLMN_NOT_PRESENT
	network_cause	NOT_USED
	sim_inval	NOT_USED
(5) MMR_PLMN_MODE_REQ		
	mode	MODE_AUTO

(6) ACI_CMD_IND

	cmd_len	LM_ERR_NO_NTW_SRV
	cmd_seq	M_ERR_NO_NTW_SRV

History: 10.08.98 ACI Initial

4.2.3 ACIATI005: no service available

Description:

registration to network ends up with no service available

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |                            |        MMR_NREG_IND        |
      |                            *<========================== *
(2)   |         ACI_CMD_IND        |                            |
      |       (msg: +CREG: 0)      |                            |
      *<========================== *                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) MMR_NREG_IND		
	service	NREG_LIMITED_SERVICE
	search_running	SEARCH_NOT_RUNNING
	new_forb_plmn	F_PLMN_NOT_PRESENT
	cause	MMCS_NO_REGISTRATION
(2) ACI_CMD_IND		
	cmd_len	LM_PLUS_CREG_NO
	cmd_seq	M_PLUS_CREG_NO

History: 10.08.98 ACI Initial

4.2.4 ACIATI006: Net Search

Description:

Scan for available PLMN's

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: AT+COPS=?)      |                            |
      *==========================>*                            |
(2)   |                            |     MMR_PLMN_MODE_REQ      |
      |                            *==========================>*
(3)   |                            |        MMR_REG_REQ         |
      |                            *==========================>*
(4)   |                            |       MMR_PLMN_IND         |
      |                            *<==========================*
(5)   |                            |     MMR_PLMN_MODE_REQ      |
      |                            *==========================>*
(6)   |        ACI_CMD_IND         |                            |
      |     (msg: +COPS: ...)      |                            |
      *<==========================*                            |
(7)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_COPS_TST
	cmd_seq	C_PLUS_COPS_TST
(2) MMR_PLMN_MODE_REQ		
	mode	MODE_MAN
(3) MMR_REG_REQ		
	service_mode	SERVICE_MODE_FULL
(4) MMR_PLMN_IND		
	cause	RES_OK_PLMN_LST_AVAIL
	plmn	F_PLMN_LST
	lac_list	NOT_USED
	forb_ind	F_FRB_PLMN_LST
	rxlevel	F_RXL_PLMN_LST
(5) MMR_PLMN_MODE_REQ		
	mode	MODE_AUTO
(6) ACI_CMD_IND		
	cmd_len	LM_PLUS_COPS_LST
	cmd_seq	M_PLUS_COPS_LST

(7) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 22.12.98 AK Initial

4.2.5 ACIATI007: Manual Registration out of PCM

Description:

Preamble:
ACIATI002
Variants: <A>....<C>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |   (cmd: AT+COPS=1,1,...)   |                            |
      *==========================>*                            |
(2)   |                            |     MMR_PLMN_MODE_REQ      |
      |                            *==========================>*
(3)   |                            |        MMR_PLMN_RES        |
      |                            *==========================>*
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_PLUS_COPS_MAN_LNG
<B>	cmd_len	LC_PLUS_COPS_MAN_SHRT
<C>	cmd_len	LC_PLUS_COPS_MAN_NUM
<A>	cmd_seq	C_PLUS_COPS_MAN_LNG
<B>	cmd_seq	C_PLUS_COPS_MAN_SHRT
<C>	cmd_seq	C_PLUS_COPS_MAN_NUM
(2) MMR_PLMN_MODE_REQ	mode	MODE_MAN
(3) MMR_PLMN_RES	plmn	S_PLMN_262_02

History: 01.07.99 AK Initial

4.3 Select type of address "+CSTA"(ACIATI011 - ACIATI020)

4.3.1 ACIATI011: list of supported modes

Description:

Type of Address, list of supported types

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CSTA=?)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |    (cmd: +CSTA: 129,145)   |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSTA_T
	cmd_seq	C_CSTA_T
(2) ACI_CMD_IND		
	cmd_len	LM_CSTA_T
	cmd_seq	M_CSTA_T
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 06.10.99 DAK Initial

4.3.2 ACIATI012: testing initial settings

Description:

Type of Address, test of initial settings

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CSTA?)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |      (cmd: +CSTA: 145)     |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CSTA_Q
		cmd_seq	C_CSTA_Q
(2)	ACI_CMD_IND		
		cmd_len	LM_CSTA_Q
		cmd_seq	M_CSTA_Q1
(3)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History: 06.10.99 DAK Initial

4.3.3 ACIATI013: setting values and test whether they were setted

Description:

Type of Address, setting types and test whether type was setted

Preamble:

ACIATI002

Variants: <A>....<B>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |   (cmd: +CSTA (145||129)   |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CSTA?)       |                            |
      *==========================>*                            |
(4)   |         ACI_CMD_IND        |                            |
      |   (cmd: +CSTA:(145||129))  |                            |
      *<==========================*                            |
(5)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSTA_S
<A>	cmd_seq	C_CSTA_S0
<B>	cmd_seq	C_CSTA_S1
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSTA_Q
	cmd_seq	C_CSTA_Q
(4) ACI_CMD_IND		
	cmd_len	LM_CSTA_Q
<A>	cmd_seq	M_CSTA_Q0
<B>	cmd_seq	M_CSTA_Q1
(5) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 06.10.99 DAK Initial

4.3.4 ACIATI014: trying to set illegal values

Description:

Select Type of Address, set illegal mode

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: +CSTA=255)      |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |        (cmd: ERROR)        |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSTA_S
	cmd_seq	C_CSTA_S9
(2) ACI_CMD_IND		
	cmd_len	LM_CME_ERR_INV_OPP
	cmd_seq	M_CME_ERR_INV_OPP

History: 06.10.99 DAK Initial

4.4 Call mode "+CMOD" (ACIATI021 – ACIATI030)

4.4.1 ACIATI021: listin of supported call modes

Description:

Call Mode, test of supported call modes

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |       (cmd: +CMOD=?)       |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |    (cmd: +CMOD: (0-3))     |                            |
      *<==========================*                            |
(3)   |        ACI_CMD_IND         |                            |
      |         (cmd: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMOD_T
	cmd_seq	C_CMOD_T
(2) ACI_CMD_IND		
	cmd_len	LM_CMOD_T
	cmd_seq	M_CMOD_T
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 05.10.99 DAK Initial

4.4.2 ACIATI022: getting initial call mode settings

Description:

Call Mode, test of initial mode settings

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CMOD?)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |       (cmd: +CMOD: 0)      |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMOD_Q
	cmd_seq	C_CMOD_Q
(2) ACI_CMD_IND		
	cmd_len	LM_CMOD_Q
	cmd_seq	M_CMOD_Q0
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History:	05.10.99	DAK	Initial

4.4.3 ACIATI023: setting several legal call modes, an test whether they are setted

Description:

Call Mode, setting call mode and test whether mode was setted

Preamble:

ACIATI002

Variants: <A>....<D>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CMOD(0-3))     |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CMOD?)       |                            |
      *==========================>*                            |
(4)   |         ACI_CMD_IND        |                            |
      |     (cmd: +CMOD:(0-3))     |                            |
      *<==========================*                            |
(5)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMOD_S
<A>	cmd_seq	C_CMOD_S0
<B>	cmd_seq	C_CMOD_S1
<C>	cmd_seq	C_CMOD_S2
<D>	cmd_seq	C_CMOD_S3
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMOD_Q
	cmd_seq	C_CMOD_Q
(4) ACI_CMD_IND		
	cmd_len	LM_CMOD_Q
<A>	cmd_seq	M_CMOD_Q0
<B>	cmd_seq	M_CMOD_Q1
<C>	cmd_seq	M_CMOD_Q2
<D>	cmd_seq	M_CMOD_Q3

(5) ACI_CMD_IND			
		cmd_len	LM_OK
		cmd_seq	M_OK
History:	05.10.99	DAK	Initial

4.4.4 ACIATI024: trying to set an illegal call mode

Description:

Call Mode, set illegal mode

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CMOD=4)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |        (cmd: ERROR)        |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMOD_S
	cmd_seq	C_CMOD_S9
(2) ACI_CMD_IND		
	cmd_len	LM_CME_ERR_INV_OPP
	cmd_seq	M_CME_ERR_INV_OPP
History: 05.10.99	DAK	Initial

4.5 Voice Call Management "+ATD" with "+COLP"(ACIATI031-ACIATI050)

4.5.1 ACIATI031: Single Voice Call

Description:

Mobile originated voice call establishment

Preamble:

ACIATI001

Variants: <A>....<E>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: AT+CLIR=2)      |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
(3)   |        ACI_CMD_REQ         |                            |
      |      (cmd: AT+COLP=1)      |                            |
      *==========================>*                            |
(4)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
(5)   |        ACI_CMD_REQ         |                            |
      |     (cmd: ATD123456;)      |                            |
      *==========================>*                            |
(6)   |                            |       MNCC_SETUP_REQ       |
      |                            *==========================> *
(7)   |                            |        SIM_SYNC_REQ        |
      |                            *==========================> *
(8)   |                            |   MNCC_CALL_PROCEED_IND    |
      |                            *<========================== *
(9)   |                            |     MNCC_PROGRESS_IND      |
      |                            *<========================== *
(10)  |                            |       MNCC_ALERT_IND       |
      |                            *<========================== *
(11)  |                            |     MNCC_FACILITY_IND      |
      |                            *<========================== *
(12)  |                            |       MNCC_SYNC_IND        |
      |                            *<========================== *
(13)  |                            |       MNCC_SETUP_CNF       |
      |                            *<========================== *
(14)  |        ACI_CMD_IND         |                            |
      |      (msg: +COLP:...)      |                            |
      *<==========================*                            |
(15)  |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CLIR_SUP
	cmd_seq	C_PLUS_CLIR_SUP
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_COLP_ON
	cmd_seq	C_PLUS_COLP_ON

(4) ACI_CMD_IND

	cmd_len	LM_OK
	cmd_seq	M_OK

(5) ACI_CMD_REQ

	cmd_src	CMD_SRC_EXT
	cmd_len	LC_D_VOICE
	cmd_seq	C_D_VOICE

(6) MNCC_SETUP_REQ

	ti	NUM_0
	prio	PRIO_NORM_CALL
	ri	RI_NOT_PRES
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT
	called_party	S_CLD_PARTY
	called_party_sub	S_CLD_PARTY_SUB
	clir_sup	CLR_SUP
	fac_inf	NOT_USED

(7) SIM_SYNC_REQ

	synccs	SYNC_START_CALL

(8) MNCC_CALL_PROCEED_IND

	ti	NUM_0
	progress_desc	PROG_NOT_PRES
	ri	RI_NOT_PRES
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT

(9) MNCC_PROGRESS_IND

	ti	NUM_0
<A>	progress_desc	PROG_NOT_PRES
<B>	progress_desc	PROG_INBAND_AVAIL
<C>	progress_desc	PROG_NO_END_TO_END_PLMN
<D>	progress_desc	PROG_DEST_NON_PLMN
<E>	progress_desc	PROG_ORIGIN_NON_PLMN

(10) MNCC_ALERT_IND

	ti	NUM_0
	progress_desc	PROG_NOT_PRES

(11) MNCC_FACILITY_IND

	ti	NUM_0
	fac_context	FAC_IN_ALERT
	fac_inf	S_FAC_AOC

(12) MNCC_SYNC_IND

	ti	NOT_PRESENT_8BIT
	cause	CAUSE_NOT_PRES
	chm	S_CHN_SPEECH

(13) MNCC_SETUP_CNF

	ti	NUM_0
	res	RES_POS
	progress_desc	PROG_NOT_PRES
	connected_number	S_CLG_PARTY
	connected_number_sub	S_CLG_PARTY_SUB

(14) ACI_CMD_IND

	cmd_len	LM_PLUS_COLP_NUM
	cmd_seq	M_PLUS_COLP_NUM

(15) ACI_CMD_IND

	cmd_len	LM_OK
	cmd_seq	M_OK

History: 22.12.98 AK Initial

4.5.2 ACIATI032: Second Single Voice Call

Description:

Second mobile originated voice call establishment during an active MOC.

Preamble:

ACIATI031A

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |     (cmd: ATD123456;)      |                            |
      *==========================>*                            |
(2)   |                            |       MNCC_HOLD_REQ        |
      |                            *==========================> *
(3)   |                            |       MNCC_HOLD_CNF        |
      |                            *<========================== *
(4)   |                            |      MNCC_SETUP_REQ        |
      |                            *==========================> *
(5)   |                            |   MNCC_CALL_PROCEED_IND    |
      |                            *<========================== *
(6)   |                            |     MNCC_PROGRESS_IND      |
      |                            *<========================== *
(7)   |                            |      MNCC_ALERT_IND        |
      |                            *<========================== *
(8)   |                            |       MNCC_SYNC_IND        |
      |                            *<========================== *
(9)   |                            |      MNCC_SETUP_CNF        |
      |                            *<========================== *
(10)  |        ACI_CMD_IND         |                            |
      |     (msg: +COLP:...)       |                            |
      *<==========================*                            |
(11)  |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_D_VOICE
	cmd_seq	C_D_VOICE
(2) MNCC_HOLD_REQ		
	ti	NUM_0
(3) MNCC_HOLD_CNF		
	ti	NUM_0
	res	RES_POS

(4) MNCC_SETUP_REQ

ti	NUM_1
prio	PRIO_NORM_CALL
ri	RI_NOT_PRES
bcpara	S_BS_VOICE
bcpara2	S_BS_NOT_PRESENT
called_party	S_CLD_PARTY
called_party_sub	S_CLD_PARTY_SUB
clir_sup	CLR_SUP
fac_inf	NOT_USED

(5) MNCC_CALL_PROCEED_IND

ti	NUM_1
progress_desc	PROG_NOT_PRES
ri	RI_NOT_PRES
bcpara	S_BS_VOICE
bcpara2	S_BS_NOT_PRESENT

(6) MNCC_PROGRESS_IND

ti	NUM_1
progress_desc	PROG_NOT_PRES

(7) MNCC_ALERT_IND

ti	NUM_1
progress_desc	PROG_NOT_PRES

(8) MNCC_SYNC_IND

ti	NOT_PRESENT_8BIT
cause	CAUSE_NOT_PRES
chm	S_CHN_SPEECH

(9) MNCC_SETUP_CNF

ti	NUM_1
res	RES_POS
progress_desc	PROG_NOT_PRES
connected_number	S_CLG_PARTY
connected_number_sub	S_CLG_PARTY_SUB

(10) ACI_CMD_IND

cmd_len	LM_PLUS_COLP_NUM
cmd_seq	M_PLUS_COLP_NUM

(11) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History: 22.12.98 AK Initial

4.5.3 ACIATI033: Third Single Voice Call

Description:

Third mobile originated voice call establishment during an active MOC and a held call.

Preamble:

ACIATI032

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |     (cmd: ATD123456;)      |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |        (msg: ERROR)        |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_D_VOICE
	cmd_seq	C_D_VOICE
(2) ACI_CMD_IND		
	cmd_len	LM_ERROR
	cmd_seq	M_ERROR

History: 22.12.98 AK Initial

4.5.4 ACIATI034: Voice Call with no answer by Subscriber, no in-band tones

Description:

Mobile originated voice call establishment

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |      (cmd: AT+CLIR=2)      |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |      (cmd: AT+COLP=1)      |                            |
      *==========================>*                            |
(4)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(5)   |         ACI_CMD_REQ        |                            |
      |      (cmd: ATD123456;)     |                            |
      *==========================>*                            |
(6)   |                            |       MNCC_SETUP_REQ       |
      |                            *==========================> *
(7)   |                            |        SIM_SYNC_REQ        |
      |                            *==========================> *
(8)   |                            |   MNCC_CALL_PROCEED_IND    |
      |                            *<========================== *
(9)   |                            |     MNCC_PROGRESS_IND      |
      |                            *<========================== *
(10)  |                            |       MNCC_ALERT_IND       |
      |                            *<========================== *
(11)  |                            |        MNCC_SYNC_IND       |
      |                            *<========================== *
(12)  |                            |    MNCC_DISCONNECT_IND     |
      |                            *<========================== *
(13)  |                            |        SIM_SYNC_REQ        |
      |                            *==========================> *
(14)  |         ACI_CMD_IND        |                            |
      |      (msg: NO ANSWER)      |                            |
      *<==========================*                            |
(15)  |                            |      MNCC_RELEASE_CNF      |
      |                            *<========================== *
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CLIR_SUP
	cmd_seq	C_PLUS_CLIR_SUP
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_COLP_ON
	cmd_seq	C_PLUS_COLP_ON

(4) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(5) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_D_VOICE
cmd_seq	C_D_VOICE

(6) MNCC_SETUP_REQ

ti	NUM_0
prio	PRIO_NORM_CALL
ri	RI_NOT_PRES
bcpara	S_BS_VOICE
bcpara2	S_BS_NOT_PRESENT
called_party	S_CLD_PARTY
called_party_sub	S_CLD_PARTY_SUB
clir_sup	CLR_SUP
fac_inf	NOT_USED

(7) SIM_SYNC_REQ

synccs	SYNC_START_CALL

(8) MNCC_CALL_PROCEED_IND

ti	NUM_0
progress_desc	PROG_NOT_PRES
ri	RI_NOT_PRES
bcpara	S_BS_VOICE
bcpara2	S_BS_NOT_PRESENT

(9) MNCC_PROGRESS_IND

ti	NUM_0
progress_desc	PROG_NOT_PRES

(10) MNCC_ALERT_IND

ti	NUM_0
progress_desc	PROG_NOT_PRES

(11) MNCC_SYNC_IND

ti	NOT_PRESENT_8BIT
cause	CAUSE_NOT_PRES
chm	S_CHN_SPEECH

(12) MNCC_DISCONNECT_IND

ti	NUM_0
cause	NUM_0
diagnostic	NOT_PRESENT_8BIT
progress_desc	PROG_NOT_PRES

(13) SIM_SYNC_REQ

synccs	SYNC_STOP_CALL

(14) ACI_CMD_IND

cmd_len	LM_NO_ANSWER
cmd_seq	M_NO_ANSWER

(15) MNCC_RELEASE_CNF

ti	NUM_0
cause	NUM_0

History: 22.12.98 AK Initial

4.5.5 ACIATI035: Voice Call with no answer by Subscriber, with in-band tones no reaction by user

Description:

Mobile originated voice call establishment

Preamble:

ACIATI001

Variants:

<A>....<E>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |      (cmd: AT+CLIR=2)      |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |      (cmd: AT+COLP=1)      |                            |
      *==========================>*                            |
(4)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(5)   |         ACI_CMD_REQ        |                            |
      |     (cmd: ATD123456;)      |                            |
      *==========================>*                            |
(6)   |                            |       MNCC_SETUP_REQ       |
      |                            *==========================> *
(7)   |                            |        SIM_SYNC_REQ        |
      |                            *==========================> *
(8)   |                            |   MNCC_CALL_PROCEED_IND    |
      |                            *<========================== *
(9)   |                            |     MNCC_PROGRESS_IND      |
      |                            *<========================== *
(10)  |                            |       MNCC_ALERT_IND       |
      |                            *<========================== *
(11)  |                            |        MNCC_SYNC_IND       |
      |                            *<========================== *
(12)  |                            |    MNCC_DISCONNECT_IND     |
      |                            *<========================== *
(13)  |                            |      MNCC_RELEASE_CNF      |
      |                            *<========================== *
(14)  |                            |        SIM_SYNC_REQ        |
      |                            *==========================> *
(15)  |         ACI_CMD_IND        |                            |
      |      (msg: NO ANSWER)      |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value

(1) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_PLUS_CLIR_SUP
cmd_seq	C_PLUS_CLIR_SUP

(2) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(3) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_PLUS_COLP_ON
cmd_seq	C_PLUS_COLP_ON

(4) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(5) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_D_VOICE
cmd_seq	C_D_VOICE

(6) MNCC_SETUP_REQ

ti	NUM_0
prio	PRIO_NORM_CALL
ri	RI_NOT_PRES
bcpara	S_BS_VOICE
bcpara2	S_BS_NOT_PRESENT
called_party	S_CLD_PARTY
called_party_sub	S_CLD_PARTY_SUB
clir_sup	CLR_SUP
fac_inf	NOT_USED

(7) SIM_SYNC_REQ

synccs	SYNC_START_CALL

(8) MNCC_CALL_PROCEED_IND

ti	NUM_0
progress_desc	PROG_NOT_PRES
ri	RI_NOT_PRES
bcpara	S_BS_VOICE
bcpara2	S_BS_NOT_PRESENT

(9) MNCC_PROGRESS_IND

	ti	NUM_0
<A>	progress_desc	PROG_INBAND_AVAIL
<B>	progress_desc	PROG_NO_END_TO_END_PLMN
<C>	progress_desc	PROG_DEST_NON_PLMN
<D>	progress_desc	PROG_ORIGIN_NON_PLMN
<E>	progress_desc	PROG_NOT_PRES

(10) MNCC_ALERT_IND

ti	NUM_0
progress_desc	PROG_NOT_PRES

(11) MNCC_SYNC_IND

ti	NOT_PRESENT_8BIT
cause	CAUSE_NOT_PRES
chm	S_CHN_SPEECH

(12) MNCC_DISCONNECT_IND

ti	NUM_0

	cause	NUM_0
	diagnostic	NOT_PRESENT_8BIT
<A>	progress_desc	PROG_NOT_PRES
<B>	progress_desc	PROG_NOT_PRES
<C>	progress_desc	PROG_NOT_PRES
<D>	progress_desc	PROG_NOT_PRES
<E>	progress_desc	PROG_INBAND_AVAIL
(13) MNCC_RELEASE_CNF		
	ti	NUM_0
	cause	NUM_0
(14) SIM_SYNC_REQ		
	synccs	SYNC_STOP_CALL
(15) ACI_CMD_IND		
	cmd_len	LM_NO_ANSWER
	cmd_seq	M_NO_ANSWER

History: 21.09.99 AK Initial

4.5.6 ACIATI036: Voice Call with no answer by Subscriber, with in-band tones release by user

Description:

Mobile originated voice call establishment

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |      (cmd: AT+CLIR=2)      |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |      (cmd: AT+COLP=1)      |                            |
      *==========================>*                            |
(4)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(5)   |         ACI_CMD_REQ        |                            |
      |     (cmd: ATD123456;)      |                            |
      *==========================>*                            |
(6)   |                            |       MNCC_SETUP_REQ       |
      |                            *==========================> *
(7)   |                            |        SIM_SYNC_REQ        |
      |                            *==========================> *
(8)   |                            |   MNCC_CALL_PROCEED_IND    |
      |                            *<========================== *
(9)   |                            |     MNCC_PROGRESS_IND      |
      |                            *<========================== *
(10)  |                            |       MNCC_ALERT_IND       |
      |                            *<========================== *
(11)  |                            |        MNCC_SYNC_IND       |
      |                            *<========================== *
(12)  |                            |    MNCC_DISCONNECT_IND     |
      |                            *<========================== *
(13)  |        ACI_ABORT_REQ       |                            |
      *==========================>*                            |
(14)  |                            |        SIM_SYNC_REQ        |
      |                            *==========================> *
(15)  |                            |     MNCC_RELEASE_REQ       |
      |                            *==========================> *
(16)  |                            |     MNCC_RELEASE_CNF       |
      |                            *<========================== *
(17)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CLIR_SUP
	cmd_seq	C_PLUS_CLIR_SUP
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

(3) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_PLUS_COLP_ON
cmd_seq	C_PLUS_COLP_ON

(4) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(5) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_D_VOICE
cmd_seq	C_D_VOICE

(6) MNCC_SETUP_REQ

ti	NUM_0
prio	PRIO_NORM_CALL
ri	RI_NOT_PRES
bcpara	S_BS_VOICE
bcpara2	S_BS_NOT_PRESENT
called_party	S_CLD_PARTY
called_party_sub	S_CLD_PARTY_SUB
clir_sup	CLR_SUP
fac_inf	NOT_USED

(7) SIM_SYNC_REQ

synccs	SYNC_START_CALL

(8) MNCC_CALL_PROCEED_IND

ti	NUM_0
progress_desc	PROG_NOT_PRES
ri	RI_NOT_PRES
bcpara	S_BS_VOICE
bcpara2	S_BS_NOT_PRESENT

(9) MNCC_PROGRESS_IND

ti	NUM_0
progress_desc	PROG_NOT_PRES

(10) MNCC_ALERT_IND

ti	NUM_0
progress_desc	PROG_NOT_PRES

(11) MNCC_SYNC_IND

ti	NOT_PRESENT_8BIT
cause	CAUSE_NOT_PRES
chm	S_CHN_SPEECH

(12) MNCC_DISCONNECT_IND

ti	NUM_0
cause	NUM_0
diagnostic	NOT_PRESENT_8BIT
progress_desc	PROG_INBAND_AVAIL

(13) ACI_ABORT_REQ

cmd_src	CMD_SRC_EXT
cause	ABT_ABORT_CMD

(14) SIM_SYNC_REQ

synccs	SYNC_STOP_CALL

(15) MNCC_RELEASE_REQ

ti	NUM_0
cause	CAUSE_CALL_CLEAR

	fac_inf	A_FAC_EMPTY
	ss_version	NOT_USED
(16) MNCC_RELEASE_CNF		
	ti	NUM_0
	cause	NUM_0
(17) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 21.09.99 AK Initial

4.5.7 ACIATI037: Call Termination without in-band tones

Description:

call termination procedure without in-band tones active.

Preamble:

ACIATI031A

Variants:

```
            <A>....<D>
     APL                          ACI                          PS
      |                            |                            |
(1)   |                            |    MNCC_DISCONNECT_IND     |
      |                            *<========================== *
(2)   |                            |        SIM_SYNC_REQ        |
      |                            *==========================> *
(3)   |         ACI_CMD_IND        |                            |
      |      (msg: NO CARRIER)     |                            |
      *<========================== *                            |
(4)   |                            |      MNCC_RELEASE_CNF      |
      |                            *<========================== *
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) MNCC_DISCONNECT_IND		
	ti	NUM_0
	cause	CAUSE_CALL_CLEAR
	diagnostic	NOT_PRESENT_8BIT
<A>	progress_desc	PROG_NOT_PRES
<B>	progress_desc	PROG_NO_END_TO_END_PLMN
<C>	progress_desc	PROG_DEST_NON_PLMN
<D>	progress_desc	PROG_ORIGIN_NON_PLMN
(2) SIM_SYNC_REQ		
	synccs	SYNC_STOP_CALL
(3) ACI_CMD_IND		
	cmd_len	LM_NO_CARRIER
	cmd_seq	M_NO_CARRIER
(4) MNCC_RELEASE_CNF		
	ti	NUM_0
	cause	CAUSE_NOT_PRES

History: 29.04.99 AK Initial

4.5.8 ACIATI038: Call Termination with in-band tones

Description:

call termination procedure with in-band tones active.

Preamble:

ACIATI031A

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |                            |    MNCC_DISCONNECT_IND     |
      |                            *<========================== *
(2)   |         ACI_CMD_REQ        |                            |
      |          (cmd: ATH)         |                            |
      *==========================> *                            |
(3)   |                            |        SIM_SYNC_REQ        |
      |                            *==========================> *
(4)   |                            |      MNCC_RELEASE_REQ      |
      |                            *==========================> *
(5)   |                            |      MNCC_RELEASE_CNF      |
      |                            *<========================== *
(6)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)          |                            |
      *<========================== *                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) MNCC_DISCONNECT_IND		
	ti	NUM_0
	cause	CAUSE_CALL_CLEAR
	diagnostic	NOT_PRESENT_8BIT
	progress_desc	PROG_INBAND_AVAIL
(2) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_H
	cmd_seq	C_H
(3) SIM_SYNC_REQ		
	synccs	SYNC_STOP_CALL
(4) MNCC_RELEASE_REQ		
	ti	NUM_0
	cause	CAUSE_CALL_CLEAR
	fac_inf	A_FAC_EMPTY
	ss_version	NOT_USED
(5) MNCC_RELEASE_CNF		
	ti	NUM_0
	cause	CAUSE_NOT_PRES
(6) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 21.09.99 AK Initial

4.5.9 ACIATI039: Call Termination with in-band tones, no reaction by user

Description:

call termination procedure with in-band tones active. User does not respond to disconnect.

Variants:

<A>....<B>

Preamble:

<A>ACIATI031B
<B>ACIATI031A

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |                            |    MNCC_DISCONNECT_IND     |
      |                            *<========================== *
(2)   |                            |     MNCC_RELEASE_IND       |
      |                            *<========================== *
(3)   |                            |       SIM_SYNC_REQ         |
      |                            *==========================> *
(4)   |        ACI_CMD_IND         |                            |
      |     (msg: NO CARRIER)      |                            |
      *<========================== *                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	MNCC_DISCONNECT_IND		
		ti	NUM_0
		cause	CAUSE_CALL_CLEAR
		diagnostic	NOT_PRESENT_8BIT
	<A>	progress_desc	PROG_NOT_PRES
	<B>	progress_desc	PROG_INBAND_AVAIL
(2)	MNCC_RELEASE_IND		
		ti	NUM_0
		cause	CAUSE_NOT_PRES
(3)	SIM_SYNC_REQ		
		synccs	SYNC_STOP_CALL
(4)	ACI_CMD_IND		
		cmd_len	LM_NO_CARRIER
		cmd_seq	M_NO_CARRIER

History: 21.09.99 AK Initial

4.5.10 ACIATI040: Voice Call with no answer by Subscriber, release by user prior to TCH assignment

Description:

Mobile originated voice call establishment

Preamble:

ACIATI001

Variants:

```
              <A>....<E>
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |      (cmd: AT+CLIR=2)      |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |      (cmd: AT+COLP=1)      |                            |
      *==========================>*                            |
(4)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(5)   |         ACI_CMD_REQ        |                            |
      |      (cmd: ATD123456;)     |                            |
      *==========================>*                            |
(6)   |                            |       MNCC_SETUP_REQ       |
      |                            *==========================> *
(7)   |                            |        SIM_SYNC_REQ        |
      |                            *==========================> *
(8)   |                            |   MNCC_CALL_PROCEED_IND    |
      |                            *<========================== *
(9)   |                            |     MNCC_PROGRESS_IND      |
      |                            *<========================== *
(10)  |                            |       MNCC_ALERT_IND       |
      |                            *<========================== *
(11)  |                            |    MNCC_DISCONNECT_IND     |
      |                            *<========================== *
(12)  |                            |        SIM_SYNC_REQ        |
      |                            *==========================> *
(13)  |         ACI_CMD_IND        |                            |
      |      (msg: NO ANSWER)      |                            |
      *<==========================*                            |
(14)  |                            |      MNCC_RELEASE_CNF      |
      |                            *<========================== *
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CLIR_SUP
	cmd_seq	C_PLUS_CLIR_SUP
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_COLP_ON
	cmd_seq	C_PLUS_COLP_ON

(4) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(5) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_D_VOICE
	cmd_seq	C_D_VOICE
(6) MNCC_SETUP_REQ		
	ti	NUM_0
	prio	PRIO_NORM_CALL
	ri	RI_NOT_PRES
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT
	called_party	S_CLD_PARTY
	called_party_sub	S_CLD_PARTY_SUB
	clir_sup	CLR_SUP
	fac_inf	NOT_USED
(7) SIM_SYNC_REQ		
	synccs	SYNC_START_CALL
(8) MNCC_CALL_PROCEED_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRES
	ri	RI_NOT_PRES
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT
(9) MNCC_PROGRESS_IND		
	ti	NUM_0
<A>	progress_desc	PROG_INBAND_AVAIL
<B>	progress_desc	PROG_NO_END_TO_END_PLMN
<C>	progress_desc	PROG_DEST_NON_PLMN
<D>	progress_desc	PROG_ORIGIN_NON_PLMN
<E>	progress_desc	PROG_NOT_PRES
(10) MNCC_ALERT_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRES
(11) MNCC_DISCONNECT_IND		
	ti	NUM_0
	cause	NUM_0
	diagnostic	NOT_PRESENT_8BIT
<A>	progress_desc	PROG_NOT_PRES
<B>	progress_desc	PROG_NOT_PRES
<C>	progress_desc	PROG_NOT_PRES
<D>	progress_desc	PROG_NOT_PRES
<E>	progress_desc	PROG_INBAND_AVAIL
(12) SIM_SYNC_REQ		
	synccs	SYNC_STOP_CALL
(13) ACI_CMD_IND		
	cmd_len	LM_NO_ANSWER
	cmd_seq	M_NO_ANSWER
(14) MNCC_RELEASE_CNF		
	ti	NUM_0
	cause	CAUSE_NOT_PRES

History: 21.09.99 AK Initial

4.5.11 ACIATI041: Second Single Voice Call, Hold of First Calls Fails

Description:

Second mobile originated voice call establishment during an active MOC. Putting first call on hold fails, second attempt succeeds.

Preamble:

ACIATI031A

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |     (cmd: ATD123456;)      |                            |
      *==========================>*                            |
(2)   |                            |       MNCC_HOLD_REQ        |
      |                            *==========================>*
(3)   |                            |       MNCC_HOLD_CNF        |
      |                            *<==========================*
(4)   |        ACI_CMD_IND         |                            |
      |        (msg: ERROR)        |                            |
      *<==========================*                            |
(5)   |        ACI_CMD_REQ         |                            |
      |     (cmd: ATD123456;)      |                            |
      *==========================>*                            |
(6)   |                            |       MNCC_HOLD_REQ        |
      |                            *==========================>*
(7)   |                            |       MNCC_HOLD_CNF        |
      |                            *<==========================*
(8)   |                            |      MNCC_SETUP_REQ        |
      |                            *==========================>*
(9)   |                            |   MNCC_CALL_PROCEED_IND    |
      |                            *<==========================*
(10)  |                            |     MNCC_PROGRESS_IND      |
      |                            *<==========================*
(11)  |                            |      MNCC_ALERT_IND        |
      |                            *<==========================*
(12)  |                            |       MNCC_SYNC_IND        |
      |                            *<==========================*
(13)  |                            |      MNCC_SETUP_CNF        |
      |                            *<==========================*
(14)  |        ACI_CMD_IND         |                            |
      |      (msg: +COLP:...)      |                            |
      *<==========================*                            |
(15)  |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_D_VOICE
	cmd_seq	C_D_VOICE

(2) MNCC_HOLD_REQ

ti	NUM_0

(3) MNCC_HOLD_CNF

ti	NUM_0
res	RES_NEG

(4) ACI_CMD_IND

cmd_len	LM_ERROR
cmd_seq	M_ERROR

(5) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_D_VOICE
cmd_seq	C_D_VOICE

(6) MNCC_HOLD_REQ

ti	NUM_0

(7) MNCC_HOLD_CNF

ti	NUM_0
res	RES_POS

(8) MNCC_SETUP_REQ

ti	NUM_1
prio	PRIO_NORM_CALL
ri	RI_NOT_PRES
bcpara	S_BS_VOICE
bcpara2	S_BS_NOT_PRESENT
called_party	S_CLD_PARTY
called_party_sub	S_CLD_PARTY_SUB
clir_sup	CLR_SUP
fac_inf	NOT_USED

(9) MNCC_CALL_PROCEED_IND

ti	NUM_1
progress_desc	PROG_NOT_PRES
ri	RI_NOT_PRES
bcpara	S_BS_VOICE
bcpara2	S_BS_NOT_PRESENT

(10) MNCC_PROGRESS_IND

ti	NUM_1
progress_desc	PROG_NOT_PRES

(11) MNCC_ALERT_IND

ti	NUM_1
progress_desc	PROG_NOT_PRES

(12) MNCC_SYNC_IND

ti	NOT_PRESENT_8BIT
cause	CAUSE_NOT_PRES
chm	S_CHN_SPEECH

(13) MNCC_SETUP_CNF

ti	NUM_1
res	RES_POS
progress_desc	PROG_NOT_PRES
connected_number	S_CLG_PARTY
connected_number_sub	S_CLG_PARTY_SUB

(14) ACI_CMD_IND

cmd_len	LM_PLUS_COLP_NUM
cmd_seq	M_PLUS_COLP_NUM

(15) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History: 22.12.98 AK Initial

4.5.12 ACIATI042: Second Single Voice Call Disconnected by Remote Party

Description:

Remote user aborts second mobile originated voice call establishment. After that another call establishment is tried, which leads to a successful connection.

Preamble:

ACIATI031A

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |      (cmd: ATD123456;)     |                            |
      *==========================>*                            |
(2)   |                            |        MNCC_HOLD_REQ       |
      |                            *==========================>*
(3)   |                            |        MNCC_HOLD_CNF       |
      |                            *<==========================*
(4)   |                            |       MNCC_SETUP_REQ       |
      |                            *==========================>*
(5)   |                            |   MNCC_CALL_PROCEED_IND    |
      |                            *<==========================*
(6)   |                            |     MNCC_PROGRESS_IND      |
      |                            *<==========================*
(7)   |                            |       MNCC_ALERT_IND       |
      |                            *<==========================*
(8)   |                            |        MNCC_SYNC_IND       |
      |                            *<==========================*
(9)   |                            |    MNCC_DISCONNECT_IND     |
      |                            *<==========================*
(10)  |         ACI_CMD_IND        |                            |
      |      (msg: NO CARRIER)     |                            |
      *<==========================*                            |
(11)  |                            |      MNCC_RELEASE_CNF      |
      |                            *<==========================*
(12)  |         ACI_CMD_REQ        |                            |
      |      (cmd: ATD123456;)     |                            |
      *==========================>*                            |
(13)  |                            |       MNCC_SETUP_REQ       |
      |                            *==========================>*
(14)  |                            |   MNCC_CALL_PROCEED_IND    |
      |                            *<==========================*
(15)  |                            |     MNCC_PROGRESS_IND      |
      |                            *<==========================*
(16)  |                            |       MNCC_ALERT_IND       |
      |                            *<==========================*
(17)  |                            |     MNCC_FACILITY_IND      |
      |                            *<==========================*
(18)  |                            |        MNCC_SYNC_IND       |
      |                            *<==========================*
(19)  |                            |       MNCC_SETUP_CNF       |
      |                            *<==========================*
(20)  |         ACI_CMD_IND        |                            |
      |      (msg: +COLP:...)      |                            |
      *<==========================*                            |
```

```
(21)  |          ACI_CMD_IND          |                                |
      |           (msg: OK)           |                                |
      * <==========================   *                                |
      |                               |                                |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_D_VOICE
	cmd_seq	C_D_VOICE
(2) MNCC_HOLD_REQ		
	ti	NUM_0
(3) MNCC_HOLD_CNF		
	ti	NUM_0
	res	RES_POS
(4) MNCC_SETUP_REQ		
	ti	NUM_1
	prio	PRIO_NORM_CALL
	ri	RI_NOT_PRES
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT
	called_party	S_CLD_PARTY
	called_party_sub	S_CLD_PARTY_SUB
	clir_sup	CLR_SUP
	fac_inf	NOT_USED
(5) MNCC_CALL_PROCEED_IND		
	ti	NUM_1
	progress_desc	PROG_NOT_PRES
	ri	RI_NOT_PRES
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT
(6) MNCC_PROGRESS_IND		
	ti	NUM_1
	progress_desc	PROG_NOT_PRES
(7) MNCC_ALERT_IND		
	ti	NUM_1
	progress_desc	PROG_NOT_PRES
(8) MNCC_SYNC_IND		
	ti	NOT_PRESENT_8BIT
	cause	CAUSE_NOT_PRES
	chm	S_CHN_SPEECH
(9) MNCC_DISCONNECT_IND		
	ti	NUM_1
	cause	CAUSE_CALL_CLEAR
	diagnostic	NOT_PRESENT_8BIT
	progress_desc	PROG_NOT_PRES
(10) ACI_CMD_IND		
	cmd_len	LM_NO_ANSWER
	cmd_seq	M_NO_ANSWER

(11) MNCC_RELEASE_CNF

ti	NUM_1
cause	CAUSE_CALL_CLEAR

(12) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_D_VOICE
cmd_seq	C_D_VOICE

(13) MNCC_SETUP_REQ

ti	NUM_1
prio	PRIO_NORM_CALL
ri	RI_NOT_PRES
bcpara	S_BS_VOICE
bcpara2	S_BS_NOT_PRESENT
called_party	S_CLD_PARTY
called_party_sub	S_CLD_PARTY_SUB
clir_sup	CLR_SUP
fac_inf	NOT_USED

(14) MNCC_CALL_PROCEED_IND

ti	NUM_1
progress_desc	PROG_NOT_PRES
ri	RI_NOT_PRES
bcpara	S_BS_VOICE
bcpara2	S_BS_NOT_PRESENT

(15) MNCC_PROGRESS_IND

ti	NUM_1
progress_desc	PROG_NOT_PRES

(16) MNCC_ALERT_IND

ti	NUM_1
progress_desc	PROG_NOT_PRES

(17) MNCC_FACILITY_IND

ti	NUM_1
fac_context	FAC_IN_ALERT
fac_inf	S_FAC_AOC

(18) MNCC_SYNC_IND

ti	NOT_PRESENT_8BIT
cause	CAUSE_NOT_PRES
chm	S_CHN_SPEECH

(19) MNCC_SETUP_CNF

ti	NUM_1
res	RES_POS
progress_desc	PROG_NOT_PRES
connected_number	S_CLG_PARTY
connected_number_sub	S_CLG_PARTY_SUB

(20) ACI_CMD_IND

cmd_len	LM_PLUS_COLP_NUM
cmd_seq	M_PLUS_COLP_NUM

(21) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History: 02.03.00 AK Initial

4.5.13 ACIATI043: Second Single Voice Call Disconnected by Remote Party with in-band tones

Description:

Remote user aborts second mobile originated voice call establishment. After that the first call will be disconnected and a new call will be established.

Preamble:

ACIATI031B

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |      (cmd: ATD123456;)     |                            |
      *==========================>*                            |
(2)   |                            |        MNCC_HOLD_REQ       |
      |                            *==========================>*
(3)   |                            |        MNCC_HOLD_CNF       |
      |                            *<==========================*
(4)   |                            |       MNCC_SETUP_REQ       |
      |                            *==========================>*
(5)   |                            |   MNCC_CALL_PROCEED_IND    |
      |                            *<==========================*
(6)   |                            |     MNCC_PROGRESS_IND      |
      |                            *<==========================*
(7)   |                            |       MNCC_ALERT_IND       |
      |                            *<==========================*
(8)   |                            |        MNCC_SYNC_IND       |
      |                            *<==========================*
(9)   |                            |    MNCC_DISCONNECT_IND     |
      |                            *<==========================*
(10)  |        ACI_ABORT_REQ       |                            |
      *==========================>*                            |
(11)  |                            |      MNCC_RELEASE_REQ      |
      |                            *==========================>*
(12)  |                            |      MNCC_RELEASE_CNF      |
      |                            *<==========================*
(13)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(14)  |         ACI_CMD_REQ        |                            |
      |      (cmd: AT+CHLD=0)      |                            |
      *==========================>*                            |
(15)  |                            |        SIM_SYNC_REQ        |
      |                            *==========================>*
(16)  |                            |    MNCC_DISCONNECT_REQ     |
      |                            *==========================>*
(17)  |                            |      MNCC_RELEASE_IND      |
      |                            *<==========================*
(18)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(19)  |         ACI_CMD_REQ        |                            |
      |      (cmd: ATD123456;)     |                            |
      *==========================>*                            |
```

```
(20)  |                              |       MNCC_SETUP_REQ       |
      |                              *==========================> *
(21)  |                              |        SIM_SYNC_REQ        |
      |                              *==========================> *
(22)  |                              |   MNCC_CALL_PROCEED_IND    |
      |                              *<========================== *
(23)  |                              |     MNCC_PROGRESS_IND      |
      |                              *<========================== *
(24)  |                              |       MNCC_ALERT_IND       |
      |                              *<========================== *
(25)  |                              |     MNCC_FACILITY_IND      |
      |                              *<========================== *
(26)  |                              |       MNCC_SYNC_IND        |
      |                              *<========================== *
(27)  |                              |       MNCC_SETUP_CNF       |
      |                              *<========================== *
(28)  |         ACI_CMD_IND          |                            |
      |      (msg: +COLP:...)        |                            |
      * <========================== *                            |
(29)  |         ACI_CMD_IND          |                            |
      |          (msg: OK)           |                            |
      * <========================== *                            |
      |                              |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_D_VOICE
	cmd_seq	C_D_VOICE
(2) MNCC_HOLD_REQ		
	ti	NUM_0
(3) MNCC_HOLD_CNF		
	ti	NUM_0
	res	RES_POS
(4) MNCC_SETUP_REQ		
	ti	NUM_1
	prio	PRIO_NORM_CALL
	ri	RI_NOT_PRES
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT
	called_party	S_CLD_PARTY
	called_party_sub	S_CLD_PARTY_SUB
	clir_sup	CLR_SUP
	fac_inf	NOT_USED
(5) MNCC_CALL_PROCEED_IND		
	ti	NUM_1
	progress_desc	PROG_NOT_PRES
	ri	RI_NOT_PRES
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT

(6) MNCC_PROGRESS_IND

ti	NUM_1
progress_desc	PROG_INBAND_AVAIL

(7) MNCC_ALERT_IND

ti	NUM_1
progress_desc	PROG_NOT_PRES

(8) MNCC_SYNC_IND

ti	NOT_PRESENT_8BIT
cause	CAUSE_NOT_PRES
chm	S_CHN_SPEECH

(9) MNCC_DISCONNECT_IND

ti	NUM_1
cause	CAUSE_CALL_CLEAR
diagnostic	NOT_PRESENT_8BIT
progress_desc	PROG_INBAND_AVAIL

(10) ACI_ABORT_REQ

cmd_src	CMD_SRC_EXT
cause	ABT_ABORT_CMD

(11) MNCC_RELEASE_REQ

ti	NUM_1
cause	CAUSE_CALL_CLEAR
fac_inf	A_FAC_EMPTY
ss_version	NOT_USED

(12) MNCC_RELEASE_CNF

ti	NUM_1
cause	CAUSE_CALL_CLEAR

(13) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(14) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_PLUS_CHLD_0
cmd_seq	C_PLUS_CHLD_0

(15) SIM_SYNC_REQ

synccs	SYNC_STOP_CALL

(16) MNCC_DISCONNECT_REQ

ti	NUM_0
cause	CAUSE_CALL_CLEAR

(17) MNCC_RELEASE_IND

ti	NUM_0
cause	CAUSE_CALL_CLEAR

(18) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(19) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_D_VOICE
cmd_seq	C_D_VOICE

(20) MNCC_SETUP_REQ

ti	NUM_0
prio	PRIO_NORM_CALL

	ri	RI_NOT_PRES
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT
	called_party	S_CLD_PARTY
	called_party_sub	S_CLD_PARTY_SUB
	clir_sup	CLR_SUP
	fac_inf	NOT_USED
(21) SIM_SYNC_REQ		
	synccs	SYNC_START_CALL
(22) MNCC_CALL_PROCEED_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRES
	ri	RI_NOT_PRES
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT
(23) MNCC_PROGRESS_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRES
(24) MNCC_ALERT_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRES
(25) MNCC_FACILITY_IND		
	ti	NUM_0
	fac_context	FAC_IN_ALERT
	fac_inf	S_FAC_AOC
(26) MNCC_SYNC_IND		
	ti	NOT_PRESENT_8BIT
	cause	CAUSE_NOT_PRES
	chm	S_CHN_SPEECH
(27) MNCC_SETUP_CNF		
	ti	NUM_0
	res	RES_POS
	progress_desc	PROG_NOT_PRES
	connected_number	S_CLG_PARTY
	connected_number_sub	S_CLG_PARTY_SUB
(28) ACI_CMD_IND		
	cmd_len	LM_PLUS_COLP_NUM
	cmd_seq	M_PLUS_COLP_NUM
(29) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 02.03.00 AK Initial

4.5.14 ACIATI044: Second Single Voice Call Disconnected by Remote Party

Description:

Remote user aborts second mobile originated voice call establishment. After that another call establishment is tried, which leads to a successful connection.

Preamble:

ACIATI031A

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |      (cmd: ATD123456;)     |                            |
      *==========================>*                            |
(2)   |                            |        MNCC_HOLD_REQ       |
      |                            *==========================>*
(3)   |                            |        MNCC_HOLD_CNF       |
      |                            *<==========================*
(4)   |                            |       MNCC_SETUP_REQ       |
      |                            *==========================>*
(5)   |                            |   MNCC_CALL_PROCEED_IND    |
      |                            *<==========================*
(6)   |                            |     MNCC_PROGRESS_IND      |
      |                            *<==========================*
(7)   |                            |       MNCC_ALERT_IND       |
      |                            *<==========================*
(8)   |                            |        MNCC_SYNC_IND       |
      |                            *<==========================*
(9)   |                            |    MNCC_DISCONNECT_IND     |
      |                            *<==========================*
(10)  |        ACI_ABORT_REQ       |                            |
      *==========================>*                            |
(11)  |                            |      MNCC_RELEASE_REQ      |
      |                            *==========================>*
(12)  |                            |      MNCC_RELEASE_CNF      |
      |                            *<==========================*
(13)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(14)  |         ACI_CMD_REQ        |                            |
      |      (cmd: ATD123456;)     |                            |
      *==========================>*                            |
(15)  |                            |       MNCC_SETUP_REQ       |
      |                            *==========================>*
(16)  |                            |   MNCC_CALL_PROCEED_IND    |
      |                            *<==========================*
(17)  |                            |     MNCC_PROGRESS_IND      |
      |                            *<==========================*
(18)  |                            |       MNCC_ALERT_IND       |
      |                            *<==========================*
(19)  |                            |     MNCC_FACILITY_IND      |
      |                            *<==========================*
(20)  |                            |        MNCC_SYNC_IND       |
      |                            *<==========================*
```

```
(21)  |                            |       MNCC_SETUP_CNF       |
      |                            *<========================== *
(22)  |         ACI_CMD_IND        |                            |
      |      (msg: +COLP:...)      |                            |
      *<========================== *                            |
(23)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<========================== *                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_D_VOICE
	cmd_seq	C_D_VOICE
(2) MNCC_HOLD_REQ		
	ti	NUM_0
(3) MNCC_HOLD_CNF		
	ti	NUM_0
	res	RES_POS
(4) MNCC_SETUP_REQ		
	ti	NUM_1
	prio	PRIO_NORM_CALL
	ri	RI_NOT_PRES
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT
	called_party	S_CLD_PARTY
	called_party_sub	S_CLD_PARTY_SUB
	clir_sup	CLR_SUP
	fac_inf	NOT_USED
(5) MNCC_CALL_PROCEED_IND		
	ti	NUM_1
	progress_desc	PROG_NOT_PRES
	ri	RI_NOT_PRES
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT
(6) MNCC_PROGRESS_IND		
	ti	NUM_1
	progress_desc	PROG_INBAND_AVAIL
(7) MNCC_ALERT_IND		
	ti	NUM_1
	progress_desc	PROG_NOT_PRES
(8) MNCC_SYNC_IND		
	ti	NOT_PRESENT_8BIT
	cause	CAUSE_NOT_PRES
	chm	S_CHN_SPEECH
(9) MNCC_DISCONNECT_IND		
	ti	NUM_1
	cause	CAUSE_CALL_CLEAR
	diagnostic	NOT_PRESENT_8BIT
	progress_desc	PROG_INBAND_AVAIL

(10) ACI_ABORT_REQ

cmd_src	CMD_SRC_EXT
cause	ABT_ABORT_CMD

(11) MNCC_RELEASE_REQ

ti	NUM_1
cause	CAUSE_CALL_CLEAR
fac_inf	A_FAC_EMPTY
ss_version	NOT_USED

(12) MNCC_RELEASE_CNF

ti	NUM_1
cause	CAUSE_CALL_CLEAR

(13) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(14) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_D_VOICE
cmd_seq	C_D_VOICE

(15) MNCC_SETUP_REQ

ti	NUM_1
prio	PRIO_NORM_CALL
ri	RI_NOT_PRES
bcpara	S_BS_VOICE
bcpara2	S_BS_NOT_PRESENT
called_party	S_CLD_PARTY
called_party_sub	S_CLD_PARTY_SUB
clir_sup	CLR_SUP
fac_inf	NOT_USED

(16) MNCC_CALL_PROCEED_IND

ti	NUM_1
progress_desc	PROG_NOT_PRES
ri	RI_NOT_PRES
bcpara	S_BS_VOICE
bcpara2	S_BS_NOT_PRESENT

(17) MNCC_PROGRESS_IND

ti	NUM_1
progress_desc	PROG_NOT_PRES

(18) MNCC_ALERT_IND

ti	NUM_1
progress_desc	PROG_NOT_PRES

(19) MNCC_FACILITY_IND

ti	NUM_1
fac_context	FAC_IN_ALERT
fac_inf	S_FAC_AOC

(20) MNCC_SYNC_IND

ti	NOT_PRESENT_8BIT
cause	CAUSE_NOT_PRES
chm	S_CHN_SPEECH

(21) MNCC_SETUP_CNF

ti	NUM_1
res	RES_POS
progress_desc	PROG_NOT_PRES

	connected_number	S_CLG_PARTY
	connected_number_sub	S_CLG_PARTY_SUB
(22) ACI_CMD_IND		
	cmd_len	LM_PLUS_COLP_NUM
	cmd_seq	M_PLUS_COLP_NUM
(23) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 02.03.00 AK Initial

4.5.15 ACIATI045: setting calling line id present. and connection line id restriction

Description:

setting calling line id present. and connection line id restriction

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CMEE=2)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |    (cmd: +CLIR=,+COLP=)    |                            |
      *==========================>*                            |
(4)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CMEE_VERB
	cmd_seq	C_PLUS_CMEE_VERB
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CLIR_COLP_S
	cmd_seq	C_CLIR_COLP_S
(4) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 17.11.99 DAK Initial

4.5.16 ACIATI046: establish successful MO voice call

Description:

establish successful MO voice call

Preamble:

ACIATI045

Variants:

<A>...<B>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: D0123456)       |                            |
      *==========================>*                            |
(2)   |                            |       MNCC_SETUP_REQ       |
      |                            *==========================>*
(3)   |                            |   MNCC_CALL_PROCEED_IND    |
      |                            *<==========================*
(4)   |                            |       MNCC_ALERT_IND       |
      |                            *<==========================*
(5)   |                            |       MNCC_SETUP_CNF       |
      |                            *<==========================*
(6)   |                            |        SIM_SYNC_REQ        |
      |                            *==========================>*
(7)   |                            |        SIM_SYNC_CNF        |
      |                            *<==========================*
(8)   |        ACI_CMD_IND         |                            |
      |     (cmd: +COLP: ...)      |                            |
      *<==========================*                            |
(9)   |        ACI_CMD_IND         |                            |
      |         (cmd: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_D0
<A>	cmd_seq	C_D0
<B>	cmd_len	LC_D1
<B>	cmd_seq	C_D1
(2) MNCC_SETUP_REQ		
	ti	NUM_0
	prio	PRIO_NORM_CALL
	ri	RI_NOT_PRES
	bcpara	BC_PARA_SPEECH
	bcpara2	BC_PARA_NO_SERVICE
<A>	called_party	CLED_PARTY0
<B>	called_party	CLED_PARTY1
	called_party_sub	CLED_PARTY_SUB_NONE

	clir_sup	CLR_SUP
	fac_inf	NOT_USED
(3) MNCC_CALL_PROCEED_IND		
	ti	NUM_0
	progress_desc	NOT_SPEC
	ri	RI_NOT_PRES
	bcpara	BC_PARA_SPEECH
	bcpara2	BC_PARA_NO_SERVICE
(4) MNCC_ALERT_IND		
	ti	NUM_0
	progress_desc	NOT_SPEC
(5) MNCC_SETUP_CNF		
	ti	NUM_0
	res	RES_POS
	progress_desc	NOT_SPEC
<A>	connected_number	CONNECTED_NUMBER0
<B>	connected_number	CONNECTED_NUMBER1
	connected_number_sub	NOT_USED
(6) SIM_SYNC_REQ		
	synccs	0x01
(7) SIM_SYNC_CNF		
	param	NOT_SPEC
(8) ACI_CMD_IND		
<A>	cmd_len	LM_D0
<A>	cmd_seq	M_D0
<B>	cmd_len	LM_D1
<B>	cmd_seq	M_D1
(9) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 12.01.2000 DAK Initial

4.5.17 ACIATI047: try to establish MO voice call - no connection (REJECT_IND)

Description:

try to establish MO voice call - no conncetion

Preamble:

ACIATI045

Variants:

<A>...<E>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: D0123456)      |                            |
      *==========================>*                            |
(2)   |                            |       MNCC_SETUP_REQ       |
      |                            *==========================> *
(3)   |                            |      MNCC_REJECT_IND       |
      |                            *<========================== *
(4)   |                            |        SIM_SYNC_REQ        |
      |                            *==========================> *
(5)   |                            |        SIM_SYNC_CNF        |
      |                            *<========================== *
(6)   |                            |        SIM_SYNC_REQ        |
      |                            *==========================> *
(7)   |                            |        SIM_SYNC_CNF        |
      |                            *<========================== *
(8)   |         ACI_CMD_IND        |                            |
      |      (cmd: +COLP: ...)     |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_D0
	cmd_seq	C_D0
(2) MNCC_SETUP_REQ		
	ti	NUM_0
	prio	PRIO_NORM_CALL
	ri	RI_NOT_PRES
	bcpara	BC_PARA_SPEECH
	bcpara2	BC_PARA_NO_SERVICE
	called_party	CLED_PARTY0
	called_party_sub	CLED_PARTY_SUB_NONE
	clir_sup	CLR_SUP
	fac_inf	NOT_USED
(3) MNCC_REJECT_IND		
	ti	NUM_0
<A>	rej	REJ_REQ_BEAR_SERV_NOT_AVAIL
<B>	rej	REJ_NO_TRANS_ID_AVAIL
<C>	rej	REJ_T303
<D>	rej	REJ_ESTAB_FAIL
<E>	rej	REJ_NOT_PRES
(4) SIM_SYNC_REQ		
	synccs	NUM_1
(5) SIM_SYNC_CNF		
	param	NOT_SPEC
(6) SIM_SYNC_REQ		
	synccs	NUM_2
(7) SIM_SYNC_CNF		
	param	NOT_SPEC

(8) ACI_CMD_IND		
	cmd_len	LM_NO_CARRIER
	cmd_seq	M_NO_CARRIER

History: 12.01.2000 DAK Initial

4.5.18 ACIATI048: try to establish MO voice call - no connection (RELEASE_IND)

Description:

try to establish MO voice call - no conncetion

Preamble:

ACIATI045

Variants:

<A>...<H>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: D0123456)      |                            |
      *==========================>*                            |
(2)   |                            |       MNCC_SETUP_REQ       |
      |                            *==========================>*
(3)   |                            |      MNCC_RELEASE_IND      |
      |                            *<==========================*
(4)   |                            |        SIM_SYNC_REQ        |
      |                            *==========================>*
(5)   |                            |        SIM_SYNC_CNF        |
      |                            *<==========================*
(6)   |                            |        SIM_SYNC_REQ        |
      |                            *==========================>*
(7)   |                            |        SIM_SYNC_CNF        |
      |                            *<==========================*
(8)   |         ACI_CMD_IND        |                            |
      |      (cmd: +COLP: ...)     |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_D0
	cmd_seq	C_D0
(2) MNCC_SETUP_REQ		
	ti	NUM_0
	prio	PRIO_NORM_CALL
	ri	RI_NOT_PRES
	bcpara	BC_PARA_SPEECH
	bcpara2	BC_PARA_NO_SERVICE
	called_party	CLED_PARTY0
	called_party_sub	CLED_PARTY_SUB_NONE
	clir_sup	CLR_SUP
	fac_inf	NOT_USED

(3) MNCC_RELEASE_IND		
	ti	NUM_0
<A>	cause	CAUSE_USER_BUSY
<B>	cause	CAUSE_ALERT_NO_ANSWER
<C>	cause	CAUSE_UNASSIGN
<D>	cause	CAUSE_NO_ROUTE
<E>	cause	CAUSE_NO_RESPONSE
<F>	cause	CAUSE_DEST_ORDER
<G>	cause	CAUSE_NUM_FORMAT
<H>	cause	CAUSE_NOT_PRES
(4) SIM_SYNC_REQ		
	synccs	NUM_1
(5) SIM_SYNC_CNF		
	param	NOT_SPEC
(6) SIM_SYNC_REQ		
	synccs	NUM_2
(7) SIM_SYNC_CNF		
	param	NOT_SPEC
(8) ACI_CMD_IND		
<A>	cmd_len	LM_BUSY
<A>	cmd_seq	M_BUSY
<B>	cmd_len	LM_NO_ANSWER
<B>	cmd_seq	M_NO_ANSWER
<C>	cmd_len	LM_NO_CARRIER
<C>	cmd_seq	M_NO_CARRIER
<D>	cmd_len	LM_NO_CARRIER
<D>	cmd_seq	LM_NO_CARRIER
<E>	cmd_len	LM_NO_ANSWER
<E>	cmd_seq	M_NO_ANSWER
<F>	cmd_len	LM_NO_CARRIER
<F>	cmd_seq	LM_NO_CARRIER
<G>	cmd_len	LM_NO_CARRIER
<G>	cmd_seq	LM_NO_CARRIER
<H>	cmd_len	LM_NO_CARRIER
<H>	cmd_seq	LM_NO_CARRIER

History: 12.01.2000 DAK Initial

4.6 Line identification SS "+CLIR" and "+CLIP"(ACIATI060 – ACIATI070)

4.6.1 ACIATI060: Interrogate CLIP status

Description:

interrogate network for CLIP status.

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CLIP?)       |                            |
      *==========================>*                            |
(2)   |                            |       MNSS_BEGIN_REQ       |
      |                            *==========================>*
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CLIP_QUERY
	cmd_seq	C_PLUS_CLIP_QUERY
(2) MNSS_BEGIN_REQ		
	ti	NUM_0
	fac_inf	A_FAC_CLIP_IRGT
	ss_ver	NOT_USED

History: 10.08.98 ACI Initial

4.6.2 ACIATI061: Interrogate CLIR status

Description:

interrogate network for CLIR status.

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CLIR?)       |                            |
      *==========================>*                            |
(2)   |                            |       MNSS_BEGIN_REQ       |
      |                            *==========================>*
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CLIR_QUERY
	cmd_seq	C_PLUS_CLIR_QUERY
(2) MNSS_BEGIN_REQ		
	ti	NUM_0
	fac_inf	A_FAC_CLIR_IRGT
	ss_ver	A_SS_VER_2

History: 10.08.98 ACI Initial

4.6.3 ACIATI062: Successful interrogation of CLIP, CLIP provisioned

Description:

network returns current status of CLIP. CLIP is provisioned

Preamble:

ACIATI060

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |                            |        MNSS_END_IND        |
      |                            *<========================== *
(2)   |         ACI_CMD_IND        |                            |
      |      (msg: +CLIP: n,m)     |                            |
      *<========================== *                            |
(3)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<========================== *                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	MNSS_END_IND		
		ti	NUM_0
		cs	SS_NO_ERROR
		fac_inf	A_FAC_CLIP_IRGT_RES_PROV
(2)	ACI_CMD_IND		
		cmd_len	LM_PLUS_CLIP_PROV
		cmd_seq	M_PLUS_CLIP_PROV
(3)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History: 10.08.98 ACI Initial

4.6.4 ACIATI063: Successful interrogation of CLIR, CLIR provisioned, temporary mode presentation allowed

Description:

network returns current status of CLIR. CLIR is provisioned, temporary mode presentation allowed

Preamble:

ACIATI061

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |                            |        MNSS_END_IND        |
      |                            *<========================== *
(2)   |         ACI_CMD_IND        |                            |
      |      (msg: +CLIR: n,m)     |                            |
      *<========================== *                            |
(3)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
```

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

Parametrization:

Primitive	Parameter	Value
(1) MNSS_END_IND		
	ti	NUM_0
	cs	SS_NO_ERROR
	fac_inf	A_FAC_CLIR_IRGT_RES_PVTMAL
(2) ACI_CMD_IND		
	cmd_len	LM_PLUS_CLIR_PVTMAL
	cmd_seq	M_PLUS_CLIR_PVTMAL
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 10.08.98 ACI Initial

4.7 Hang up call "+CHUP" (ACIATI071 – ACIATI079)

4.7.1 ACIATI071: performe test & read command

Description:

performe test & read command

Preamble:

ACIATI002

Variants:

<A>...<B>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |    (cmd: +CHUP=?,+CHUP?)   |                            |
      * ========================== > *                          |
(2)   |         ACI_CMD_IND        |                            |
      |       (cmd: OK,ERROR)      |                            |
      * <========================== *                          |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_CHUP_T
<A>	cmd_seq	C_CHUP_T
<B>	cmd_len	LC_CHUP_Q
<B>	cmd_seq	C_CHUP_Q
(2) ACI_CMD_IND		
<A>	cmd_len	LM_OK
<A>	cmd_seq	M_OK
<B>	cmd_len	LM_CME_ERR_UNKN
<B>	cmd_seq	M_CME_ERR_UNKN

History: 05.01.2000 DAK Initial

4.7.2 ACIATI072: hang up an open call

Description:

hang up an open call

Preamble:

ACIATI046A

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |        (cmd: +CHUP)        |                            |
      *==========================>*                            |
(2)   |                            |        SIM_SYNC_REQ        |
      |                            *==========================> *
(3)   |                            |        SIM_SYNC_CNF        |
      |                            *<========================== *
(4)   |                            |    MNCC_DISCONNECT_REQ     |
      |                            *==========================> *
(5)   |                            |    MNCC_DISCONNECT_IND     |
      |                            *<========================== *
(6)   |        ACI_CMD_IND         |                            |
      |         (cmd: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CHUP_S
	cmd_seq	C_CHUP_S
(2) SIM_SYNC_REQ		
	synccs	NUM_2
(3) SIM_SYNC_CNF		
	param	NOT_SPEC
(4) MNCC_DISCONNECT_REQ		
	ti	NUM_0
	cause	CAUSE_CALL_CLEAR
(5) MNCC_DISCONNECT_IND		
	ti	NUM_0
	cause	CAUSE_CALL_CLEAR
	diagnostic	DIAG_UNKNOWN_CUG_INDEX
	progress_desc	PROG_NO_END_TO_END_PLMN
(6) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 13.01.2000 DAK Initial

4.8 Preferred PLMN list management "+CPOL" (ACIATI080-ACIATI100)

4.8.1 ACIATI080: Read Preferred PLMN list

Description:

Preamble:
ACIATI001
Variants: <A>....<C>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(4)   |                            |        SIM_READ_REQ        |
      |                            *==========================>*
(5)   |                            |        SIM_READ_CNF        |
      |                            *<==========================*
(6)   |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN1)    |                            |
      *<==========================*                            |
(7)   |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN2)    |                            |
      *<==========================*                            |
(8)   |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN3)    |                            |
      *<==========================*                            |
(9)   |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN4)    |                            |
      *<==========================*                            |
(10)  |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN5)    |                            |
      *<==========================*                            |
(11)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_PLUS_CPOL_FRMT_LONG
<B>	cmd_len	LC_PLUS_CPOL_FRMT_SHRT
<C>	cmd_len	LC_PLUS_CPOL_FRMT_NUM
<A>	cmd_seq	C_PLUS_CPOL_FRMT_LONG

<B>	cmd_seq	C_PLUS_CPOL_FRMT_SHRT
<C>	cmd_seq	C_PLUS_CPOL_FRMT_NUM
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPOL_Q
	cmd_seq	C_PLUS_CPOL_Q
(4) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_PLMNSEL
	length	NOT_PRESENT_8BIT
	max_length	NUM_30
(5) SIM_READ_CNF	datafield	SIM_PLMNSEL
	error	SIM_NO_ERROR
	length	NUM_27
	trans_data	A_EF_PLMNSEL
(6) ACI_CMD_IND		
<A>	cmd_len	LM_PLUS_CPOL_PLMN1_LNG
<B>	cmd_len	LM_PLUS_CPOL_PLMN1_SHRT
<C>	cmd_len	LM_PLUS_CPOL_PLMN1_NUM
<A>	cmd_seq	M_PLUS_CPOL_PLMN1_LNG
<B>	cmd_seq	M_PLUS_CPOL_PLMN1_SHRT
<C>	cmd_seq	M_PLUS_CPOL_PLMN1_NUM
(7) ACI_CMD_IND		
<A>	cmd_len	LM_PLUS_CPOL_PLMN2_LNG
<B>	cmd_len	LM_PLUS_CPOL_PLMN2_SHRT
<C>	cmd_len	LM_PLUS_CPOL_PLMN2_NUM
<A>	cmd_seq	M_PLUS_CPOL_PLMN2_LNG
<B>	cmd_seq	M_PLUS_CPOL_PLMN2_SHRT
<C>	cmd_seq	M_PLUS_CPOL_PLMN2_NUM
(8) ACI_CMD_IND		
<A>	cmd_len	LM_PLUS_CPOL_PLMN3_LNG
<B>	cmd_len	LM_PLUS_CPOL_PLMN3_SHRT
<C>	cmd_len	LM_PLUS_CPOL_PLMN3_NUM
<A>	cmd_seq	M_PLUS_CPOL_PLMN3_LNG
<B>	cmd_seq	M_PLUS_CPOL_PLMN3_SHRT
<C>	cmd_seq	M_PLUS_CPOL_PLMN3_NUM
(9) ACI_CMD_IND		
<A>	cmd_len	LM_PLUS_CPOL_PLMN4_LNG
<B>	cmd_len	LM_PLUS_CPOL_PLMN4_SHRT
<C>	cmd_len	LM_PLUS_CPOL_PLMN4_NUM
<A>	cmd_seq	M_PLUS_CPOL_PLMN4_LNG
<B>	cmd_seq	M_PLUS_CPOL_PLMN4_SHRT
<C>	cmd_seq	M_PLUS_CPOL_PLMN4_NUM
(10) ACI_CMD_IND		
<A>	cmd_len	LM_PLUS_CPOL_PLMN5_LNG
<B>	cmd_len	LM_PLUS_CPOL_PLMN5_SHRT
<C>	cmd_len	LM_PLUS_CPOL_PLMN5_NUM
<A>	cmd_seq	M_PLUS_CPOL_PLMN5_LNG
<B>	cmd_seq	M_PLUS_CPOL_PLMN5_SHRT
<C>	cmd_seq	M_PLUS_CPOL_PLMN5_NUM

(11) ACI_CMD_IND

	cmd_len	LM_OK
	cmd_seq	M_OK

History: 07.10.99 AK Initial

4.8.2 ACIATI081: Delete Entry in Preferred PLMN list, list alread read

Description:

Preamble:

ACIATI080A

```
     APL                          ACI                          PS
      |                            |                            |
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(2)   |                            |       SIM_UPDATE_REQ       |
      |                            *==========================>*
(3)   |                            |       SIM_UPDATE_CNF       |
      |                            *<==========================*
(4)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(5)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(6)   |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN2)    |                            |
      *<==========================*                            |
(7)   |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN3)    |                            |
      *<==========================*                            |
(8)   |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN4)    |                            |
      *<==========================*                            |
(9)   |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN5)    |                            |
      *<==========================*                            |
(10)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPOL_DEL_2
	cmd_seq	C_PLUS_CPOL_DEL_2
(2) SIM_UPDATE_REQ	source	SRC_MMI
	offset	NUM_0

	datafield	SIM_PLMNSEL
	length	NUM_27
	trans_data	A_EF_PLMNSEL_DEL
(3) SIM_UPDATE_CNF	datafield	SIM_PLMNSEL
	error	SIM_NO_ERROR
(4) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(5) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPOL_Q
	cmd_seq	C_PLUS_CPOL_Q
(6) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN2_LNG
	cmd_seq	M_PLUS_CPOL_PLMN2_LNG
(7) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN3_LNG
	cmd_seq	M_PLUS_CPOL_PLMN3_LNG
(8) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN4_LNG
	cmd_seq	M_PLUS_CPOL_PLMN4_LNG
(9) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN5_LNG
	cmd_seq	M_PLUS_CPOL_PLMN5_LNG
(10) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 08.10.99 AK Initial

4.8.3 ACIATI082: Delete Entry in Preferred PLMN list, read list first

Description:

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(2)   |                            |        SIM_READ_REQ        |
      |                            *==========================>*
(3)   |                            |        SIM_READ_CNF        |
      |                            *<==========================*
(4)   |                            |       SIM_UPDATE_REQ       |
      |                            *==========================>*
(5)   |                            |       SIM_UPDATE_CNF       |
      |                            *<==========================*
(6)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(7)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(8)   |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN2)    |                            |
      *<==========================*                            |
(9)   |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN3)    |                            |
      *<==========================*                            |
(10)  |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN4)    |                            |
      *<==========================*                            |
(11)  |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN5)    |                            |
      *<==========================*                            |
(12)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPOL_DEL_2
	cmd_seq	C_PLUS_CPOL_DEL_2
(2) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_PLMNSEL
	length	NOT_PRESENT_8BIT
	max_length	NUM_30
(3) SIM_READ_CNF	datafield	SIM_PLMNSEL
	error	SIM_NO_ERROR
	length	NUM_27
	trans_data	A_EF_PLMNSEL
(4) SIM_UPDATE_REQ	source	SRC_MMI
	offset	NUM_0

	datafield	SIM_PLMNSEL
	length	NUM_27
	trans_data	A_EF_PLMNSEL_DEL
(5) SIM_UPDATE_CNF	datafield	SIM_PLMNSEL
	error	SIM_NO_ERROR
(6) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(7) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPOL_Q
	cmd_seq	C_PLUS_CPOL_Q
(8) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN2_NUM
	cmd_seq	M_PLUS_CPOL_PLMN2_NUM
(9) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN3_NUM
	cmd_seq	M_PLUS_CPOL_PLMN3_NUM
(10) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN4_NUM
	cmd_seq	M_PLUS_CPOL_PLMN4_NUM
(11) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN5_NUM
	cmd_seq	M_PLUS_CPOL_PLMN5_NUM
(12) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 08.10.99 AK Initial

4.8.4 ACIATI083: Write Entry in Preferred PLMN list, list alread read

Description:

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(2)   |                            |        SIM_READ_REQ        |
      |                            *==========================> *
(3)   |                            |        SIM_READ_CNF        |
      |                            *<========================== *
(4)   |                            |       SIM_UPDATE_REQ       |
      |                            *==========================> *
(5)   |                            |       SIM_UPDATE_CNF       |
      |                            *<========================== *
(6)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(7)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(8)   |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN1)    |                            |
      *<==========================*                            |
(9)   |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN2)    |                            |
      *<==========================*                            |
(10)  |         ACI_CMD_IND        |                            |
      |   (msg: +CPOL: PLMN_NEW)   |                            |
      *<==========================*                            |
(11)  |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN4)    |                            |
      *<==========================*                            |
(12)  |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN5)    |                            |
      *<==========================*                            |
(13)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPOL_OVR_3
	cmd_seq	C_PLUS_CPOL_OVR_3
(2) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_PLMNSEL
	length	NOT_PRESENT_8BIT
	max_length	NUM_30
(3) SIM_READ_CNF	datafield	SIM_PLMNSEL
	error	SIM_NO_ERROR
	length	NUM_27
	trans_data	A_EF_PLMNSEL

(4) SIM_UPDATE_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_PLMNSEL
	length	NUM_27
	trans_data	A_EF_PLMNSEL_OVR
(5) SIM_UPDATE_CNF	datafield	SIM_PLMNSEL
	error	SIM_NO_ERROR
(6) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(7) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPOL_Q
	cmd_seq	C_PLUS_CPOL_Q
(8) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN1_NUM
	cmd_seq	M_PLUS_CPOL_PLMN1_NUM
(9) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN2_NUM
	cmd_seq	M_PLUS_CPOL_PLMN2_NUM
(10) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN3_NUM
	cmd_seq	M_PLUS_CPOL_PLMN3_NUM
(11) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN4_NUM
	cmd_seq	M_PLUS_CPOL_PLMN4_NUM
(12) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN5_NUM
	cmd_seq	M_PLUS_CPOL_PLMN5_NUM
(13) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 08.10.99 AK Initial

4.8.5 ACIATI084: Write Entry in Preferred PLMN list, read list first

Description:

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(2)   |                            |        SIM_READ_REQ        |
      |                            *==========================>*
(3)   |                            |        SIM_READ_CNF        |
      |                            *<==========================*
(4)   |                            |       SIM_UPDATE_REQ       |
      |                            *==========================>*
(5)   |                            |       SIM_UPDATE_CNF       |
      |                            *<==========================*
(6)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(7)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(8)   |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN1)    |                            |
      *<==========================*                            |
(9)   |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN2)    |                            |
      *<==========================*                            |
(10)  |         ACI_CMD_IND        |                            |
      |   (msg: +CPOL: PLMN_OVR)   |                            |
      *<==========================*                            |
(11)  |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN4)    |                            |
      *<==========================*                            |
(12)  |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN5)    |                            |
      *<==========================*                            |
(13)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPOL_OVR_3
	cmd_seq	C_PLUS_CPOL_OVR_3
(2) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_PLMNSEL
	length	NOT_PRESENT_8BIT
	max_length	NUM_30
(3) SIM_READ_CNF	datafield	SIM_PLMNSEL
	error	SIM_NO_ERROR
	length	NUM_27
	trans_data	A_EF_PLMNSEL

(4) SIM_UPDATE_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_PLMNSEL
	length	NUM_27
	trans_data	A_EF_PLMNSEL_OVR
(5) SIM_UPDATE_CNF	datafield	SIM_PLMNSEL
	error	SIM_NO_ERROR
(6) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(7) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPOL_Q
	cmd_seq	C_PLUS_CPOL_Q
(8) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN1_NUM
	cmd_seq	M_PLUS_CPOL_PLMN1_NUM
(9) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN2_NUM
	cmd_seq	M_PLUS_CPOL_PLMN2_NUM
(10) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN_OVR_NUM
	cmd_seq	M_PLUS_CPOL_PLMN_OVR_NUM
(11) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN4_NUM
	cmd_seq	M_PLUS_CPOL_PLMN4_NUM
(12) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN5_NUM
	cmd_seq	M_PLUS_CPOL_PLMN5_NUM
(13) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 08.10.99 AK Initial

4.8.6 ACIATI085: Write next free Entry in Preferred PLMN list, list alread read

Description:

Preamble:

ACIATI080A

```
     APL                          ACI                          PS
      |                            |                            |
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(2)   |                            |       SIM_UPDATE_REQ       |
      |                            *==========================> *
(3)   |                            |       SIM_UPDATE_CNF       |
      |                            *<========================== *
(4)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(5)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(6)   |         ACI_CMD_IND        |                            |
      |   (msg: +CPOL: PLMN_NEW)   |                            |
      *<==========================*                            |
(7)   |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN1)    |                            |
      *<==========================*                            |
(8)   |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN2)    |                            |
      *<==========================*                            |
(9)   |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN3)    |                            |
      *<==========================*                            |
(10)  |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN4)    |                            |
      *<==========================*                            |
(11)  |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN5)    |                            |
      *<==========================*                            |
(12)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPOL_NEW_3
	cmd_seq	C_PLUS_CPOL_NEW_3
(2) SIM_UPDATE_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_PLMNSEL
	length	NUM_27
	trans_data	A_EF_PLMNSEL_NEW
(3) SIM_UPDATE_CNF	datafield	SIM_PLMNSEL
	error	SIM_NO_ERROR

(4) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(5) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_PLUS_CPOL_Q
cmd_seq	C_PLUS_CPOL_Q

(6) ACI_CMD_IND

cmd_len	LM_PLUS_CPOL_PLMN_NEW_LNG
cmd_seq	M_PLUS_CPOL_PLMN_NEW_LNG

(7) ACI_CMD_IND

cmd_len	LM_PLUS_CPOL_PLMN1_LNG
cmd_seq	M_PLUS_CPOL_PLMN1_LNG

(8) ACI_CMD_IND

cmd_len	LM_PLUS_CPOL_PLMN2_LNG
cmd_seq	M_PLUS_CPOL_PLMN2_LNG

(9) ACI_CMD_IND

cmd_len	LM_PLUS_CPOL_PLMN3_LNG
cmd_seq	M_PLUS_CPOL_PLMN3_LNG

(10) ACI_CMD_IND

cmd_len	LM_PLUS_CPOL_PLMN4_LNG
cmd_seq	M_PLUS_CPOL_PLMN4_LNG

(11) ACI_CMD_IND

cmd_len	LM_PLUS_CPOL_PLMN5_LNG
cmd_seq	M_PLUS_CPOL_PLMN5_LNG

(12) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History: 08.10.99 AK Initial

4.8.7 ACIATI086: Write Entry in Preferred PLMN list, read list first

Description:

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(2)   |                            |        SIM_READ_REQ        |
      |                            *==========================>*
(3)   |                            |        SIM_READ_CNF        |
      |                            *<==========================*
(4)   |                            |       SIM_UPDATE_REQ       |
      |                            *==========================>*
(5)   |                            |       SIM_UPDATE_CNF       |
      |                            *<==========================*
(6)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(7)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(8)   |         ACI_CMD_IND        |                            |
      |   (msg: +CPOL: PLMN_NEW)   |                            |
      *<==========================*                            |
(9)   |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN1)    |                            |
      *<==========================*                            |
(10)  |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN2)    |                            |
      *<==========================*                            |
(11)  |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN3)    |                            |
      *<==========================*                            |
(12)  |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN4)    |                            |
      *<==========================*                            |
(13)  |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN5)    |                            |
      *<==========================*                            |
(14)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPOL_NEW_3
	cmd_seq	C_PLUS_CPOL_NEW_3
(2) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_PLMNSEL
	length	NOT_PRESENT_8BIT
	max_length	NUM_30

(3) SIM_READ_CNF	datafield	SIM_PLMNSEL
	error	SIM_NO_ERROR
	length	NUM_27
	trans_data	A_EF_PLMNSEL
(4) SIM_UPDATE_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_PLMNSEL
	length	NUM_27
	trans_data	A_EF_PLMNSEL_NEW
(5) SIM_UPDATE_CNF	datafield	SIM_PLMNSEL
	error	SIM_NO_ERROR
(6) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(7) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPOL_Q
	cmd_seq	C_PLUS_CPOL_Q
(8) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN_NEW_NUM
	cmd_seq	M_PLUS_CPOL_PLMN_NEW_NUM
(9) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN1_NUM
	cmd_seq	M_PLUS_CPOL_PLMN1_NUM
(10) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN2_NUM
	cmd_seq	M_PLUS_CPOL_PLMN2_NUM
(11) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN3_NUM
	cmd_seq	M_PLUS_CPOL_PLMN3_NUM
(12) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN4_NUM
	cmd_seq	M_PLUS_CPOL_PLMN4_NUM
(13) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN5_NUM
	cmd_seq	M_PLUS_CPOL_PLMN5_NUM
(14) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 08.10.99 AK Initial

4.8.8 ACIATI087: Test Number of Entries of Preferred PLMN list, list alread read

Description:

Preamble:

ACIATI080A

```
     APL                          ACI                          PS
      |                            |                            |
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |       (msg: +CPOL: )       |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPOL_T
	cmd_seq	C_PLUS_CPOL_T
(2) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_T
	cmd_seq	M_PLUS_CPOL_T
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 08.10.99 AK Initial

4.8.9 ACIATI088: Test Number of Entries of Preferred PLMN list, read list first

Description:

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(2)   |                            |        SIM_READ_REQ        |
      |                            *==========================> *
(3)   |                            |        SIM_READ_CNF        |
      |                            *<========================== *
(4)   |         ACI_CMD_IND        |                            |
      |       (msg: +CPOL: )       |                            |
      *<==========================*                            |
(5)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPOL_T
	cmd_seq	C_PLUS_CPOL_T
(2) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_PLMNSEL
	length	NOT_PRESENT_8BIT
	max_length	NUM_30
(3) SIM_READ_CNF	datafield	SIM_PLMNSEL
	error	SIM_NO_ERROR
	length	NUM_27
	trans_data	A_EF_PLMNSEL
(4) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_T
	cmd_seq	M_PLUS_CPOL_T
(5) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 08.10.99 AK Initial

4.8.10 ACIATI089: Read Preferred PLMN list, compact mode

Description:

Preamble: ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
   COMMAND (MMI CONFIG CPOL_MODE=0)
(3)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(4)   |                            |        SIM_READ_REQ        |
      |                            *==========================> *
(5)   |                            |        SIM_READ_CNF        |
      |                            *<========================== *
(6)   |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN1)    |                            |
      *<==========================*                            |
(7)   |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN2)    |                            |
      *<==========================*                            |
(8)   |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN3)    |                            |
      *<==========================*                            |
(9)   |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN4)    |                            |
      *<==========================*                            |
(10)  |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN5)    |                            |
      *<==========================*                            |
(11)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPOL_FRMT_LONG
	cmd_seq	C_PLUS_CPOL_FRMT_LONG
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPOL_Q
	cmd_seq	C_PLUS_CPOL_Q
(4) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_PLMNSEL

	length	NOT_PRESENT_8BIT
	max_length	NUM_30
(5) SIM_READ_CNF	datafield	SIM_PLMNSEL
	error	SIM_NO_ERROR
	length	NUM_27
	trans_data	A_EF_PLMNSEL
(6) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN1_CMP
	cmd_seq	M_PLUS_CPOL_PLMN1_CMP
(7) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN2_CMP
	cmd_seq	M_PLUS_CPOL_PLMN2_CMP
(8) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN3_CMP
	cmd_seq	M_PLUS_CPOL_PLMN3_CMP
(9) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN4_CMP
	cmd_seq	M_PLUS_CPOL_PLMN4_CMP
(10) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN5_CMP
	cmd_seq	M_PLUS_CPOL_PLMN5_CMP
(11) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 07.10.99 AK Initial

4.8.11 ACIATI090: Delete Entry in Preferred PLMN list, list alread read compact mode

Description:

Preamble:

ACIATI089

```
     APL                          ACI                          PS
      |                            |                            |
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(2)   |                            |       SIM_UPDATE_REQ       |
      |                            *==========================> *
(3)   |                            |       SIM_UPDATE_CNF       |
      |                            *<========================== *
(4)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(5)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(6)   |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN2)    |                            |
      *<==========================*                            |
(7)   |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN3)    |                            |
      *<==========================*                            |
(8)   |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN4)    |                            |
      *<==========================*                            |
(9)   |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN5)    |                            |
      *<==========================*                            |
(10)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPOL_DEL_1
	cmd_seq	C_PLUS_CPOL_DEL_1
(2) SIM_UPDATE_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_PLMNSEL
	length	NUM_27
	trans_data	A_EF_PLMNSEL_DEL_CMP
(3) SIM_UPDATE_CNF	datafield	SIM_PLMNSEL
	error	SIM_NO_ERROR
(4) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(5) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPOL_Q
	cmd_seq	C_PLUS_CPOL_Q

(6) ACI_CMD_IND

cmd_len	LM_PLUS_CPOL_PLMN2_DLT
cmd_seq	M_PLUS_CPOL_PLMN2_DLT

(7) ACI_CMD_IND

cmd_len	LM_PLUS_CPOL_PLMN3_DLT
cmd_seq	M_PLUS_CPOL_PLMN3_DLT

(8) ACI_CMD_IND

cmd_len	LM_PLUS_CPOL_PLMN4_DLT
cmd_seq	M_PLUS_CPOL_PLMN4_DLT

(9) ACI_CMD_IND

cmd_len	LM_PLUS_CPOL_PLMN5_DLT
cmd_seq	M_PLUS_CPOL_PLMN5_DLT

(10) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History: 08.10.99 AK Initial

4.8.12 ACIATI091: Delete Entry in Preferred PLMN list, read list first compact mode

Description:

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
COMMAND (MMI CONFIG CPOL_MODE=0)
(3)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(4)   |                            |        SIM_READ_REQ        |
      |                            *==========================> *
(5)   |                            |        SIM_READ_CNF        |
      |                            *<========================== *
(6)   |                            |       SIM_UPDATE_REQ       |
      |                            *==========================> *
(7)   |                            |       SIM_UPDATE_CNF       |
      |                            *<========================== *
(8)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(9)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(10)  |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN2)    |                            |
      *<==========================*                            |
(11)  |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN3)    |                            |
      *<==========================*                            |
(12)  |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN4)    |                            |
      *<==========================*                            |
(13)  |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN5)    |                            |
      *<==========================*                            |
(14)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPOL_FRMT_LONG
	cmd_seq	C_PLUS_CPOL_FRMT_LONG
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT

	cmd_len	LC_PLUS_CPOL_DEL_1
	cmd_seq	C_PLUS_CPOL_DEL_1
(4) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_PLMNSEL
	length	NOT_PRESENT_8BIT
	max_length	NUM_30
(5) SIM_READ_CNF	datafield	SIM_PLMNSEL
	error	SIM_NO_ERROR
	length	NUM_27
	trans_data	A_EF_PLMNSEL
(6) SIM_UPDATE_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_PLMNSEL
	length	NUM_27
	trans_data	A_EF_PLMNSEL_DEL_CMP
(7) SIM_UPDATE_CNF	datafield	SIM_PLMNSEL
	error	SIM_NO_ERROR
(8) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(9) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPOL_Q
	cmd_seq	C_PLUS_CPOL_Q
(10) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN2_DLT
	cmd_seq	M_PLUS_CPOL_PLMN2_DLT
(11) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN3_DLT
	cmd_seq	M_PLUS_CPOL_PLMN3_DLT
(12) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN4_DLT
	cmd_seq	M_PLUS_CPOL_PLMN4_DLT
(13) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN5_DLT
	cmd_seq	M_PLUS_CPOL_PLMN5_DLT
(14) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 08.10.99 AK Initial

4.8.13 ACIATI092: Insert Entry in Preferred PLMN list, list alread read compact mode

Description:

Preamble:

ACIATI089

```
     APL                          ACI                          PS
      |                            |                            |
      |                            |                            |
COMMAND (MMI CONFIG CPOL_MODE=1)
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(2)   |                            |       SIM_UPDATE_REQ       |
      |                            *==========================>*
(3)   |                            |       SIM_UPDATE_CNF       |
      |                            *<==========================*
(4)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
   COMMAND (MMI CONFIG CPOL_MODE=0)
(5)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(6)   |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN1)    |                            |
      *<==========================*                            |
(7)   |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN2)    |                            |
      *<==========================*                            |
(8)   |         ACI_CMD_IND        |                            |
      |   (msg: +CPOL: PLMN INS)   |                            |
      *<==========================*                            |
(9)   |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN3)    |                            |
      *<==========================*                            |
(10)  |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN4)    |                            |
      *<==========================*                            |
(11)  |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN5)    |                            |
      *<==========================*                            |
(12)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPOL_INS_3
	cmd_seq	C_PLUS_CPOL_INS_3
(2) SIM_UPDATE_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_PLMNSEL
	length	NUM_27
	trans_data	A_EF_PLMNSEL_INS_CMP
(3) SIM_UPDATE_CNF	datafield	SIM_PLMNSEL
	error	SIM_NO_ERROR

(4) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(5) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_PLUS_CPOL_Q
cmd_seq	C_PLUS_CPOL_Q

(6) ACI_CMD_IND

cmd_len	LM_PLUS_CPOL_PLMN1_CMP
cmd_seq	M_PLUS_CPOL_PLMN1_CMP

(7) ACI_CMD_IND

cmd_len	LM_PLUS_CPOL_PLMN2_CMP
cmd_seq	M_PLUS_CPOL_PLMN2_CMP

(8) ACI_CMD_IND

cmd_len	LM_PLUS_CPOL_PLMN_INS_LNG
cmd_seq	M_PLUS_CPOL_PLMN_INS_LNG

(9) ACI_CMD_IND

cmd_len	LM_PLUS_CPOL_PLMN3_INS
cmd_seq	M_PLUS_CPOL_PLMN3_INS

(10) ACI_CMD_IND

cmd_len	LM_PLUS_CPOL_PLMN4_INS
cmd_seq	M_PLUS_CPOL_PLMN4_INS

(11) ACI_CMD_IND

cmd_len	LM_PLUS_CPOL_PLMN5_INS
cmd_seq	M_PLUS_CPOL_PLMN5_INS

(12) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History: 08.10.99 AK Initial

4.8.14 ACIATI093: Insert Entry in Preferred PLMN list, read list first compact mode

Description:

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
   COMMAND (MMI CONFIG CPOL_MODE=1)
(3)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(4)   |                            |        SIM_READ_REQ        |
      |                            *==========================> *
(5)   |                            |        SIM_READ_CNF        |
      |                            *<========================== *
(6)   |                            |       SIM_UPDATE_REQ       |
      |                            *==========================> *
(7)   |                            |       SIM_UPDATE_CNF       |
      |                            *<========================== *
(8)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
   COMMAND (MMI CONFIG CPOL_MODE=0)
(9)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(10)  |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN1)    |                            |
      *<==========================*                            |
(11)  |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN2)    |                            |
      *<==========================*                            |
(12)  |         ACI_CMD_IND        |                            |
      |   (msg: +CPOL: PLMN INS)   |                            |
      *<==========================*                            |
(13)  |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN3)    |                            |
      *<==========================*                            |
(14)  |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN4)    |                            |
      *<==========================*                            |
(15)  |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN5)    |                            |
      *<==========================*                            |
(16)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT

	cmd_len	LC_PLUS_CPOL_FRMT_LONG
	cmd_seq	C_PLUS_CPOL_FRMT_LONG
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPOL_INS_3
	cmd_seq	C_PLUS_CPOL_INS_3
(4) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_PLMNSEL
	length	NOT_PRESENT_8BIT
	max_length	NUM_30
(5) SIM_READ_CNF	datafield	SIM_PLMNSEL
	error	SIM_NO_ERROR
	length	NUM_27
	trans_data	A_EF_PLMNSEL
(6) SIM_UPDATE_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_PLMNSEL
	length	NUM_27
	trans_data	A_EF_PLMNSEL_INS_CMP
(7) SIM_UPDATE_CNF	datafield	SIM_PLMNSEL
	error	SIM_NO_ERROR
(8) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(9) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPOL_Q
	cmd_seq	C_PLUS_CPOL_Q
(10) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN1_CMP
	cmd_seq	M_PLUS_CPOL_PLMN1_CMP
(11) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN2_CMP
	cmd_seq	M_PLUS_CPOL_PLMN2_CMP
(12) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN_INS_LNG
	cmd_seq	M_PLUS_CPOL_PLMN_INS_LNG
(13) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN3_INS
	cmd_seq	M_PLUS_CPOL_PLMN3_INS
(14) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN4_INS
	cmd_seq	M_PLUS_CPOL_PLMN4_INS
(15) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN5_INS
	cmd_seq	M_PLUS_CPOL_PLMN5_INS

(16) ACI_CMD_IND

	cmd_len	LM_OK
	cmd_seq	M_OK

History: 08.10.99 AK Initial

4.8.15 ACIATI094: Append Entry to Preferred PLMN list, list alread read compact mode

Description:

Preamble:

ACIATI089

```
     APL                          ACI                          PS
      |                            |                            |
      |                            |                            |
COMMAND (MMI CONFIG CPOL_MODE=0)
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(2)   |                            |       SIM_UPDATE_REQ       |
      |                            *==========================>*
(3)   |                            |       SIM_UPDATE_CNF       |
      |                            *<==========================*
(4)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(5)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(6)   |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN1)    |                            |
      *<==========================*                            |
(7)   |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN2)    |                            |
      *<==========================*                            |
(8)   |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN3)    |                            |
      *<==========================*                            |
(9)   |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN4)    |                            |
      *<==========================*                            |
(10)  |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN5)    |                            |
      *<==========================*                            |
(11)  |         ACI_CMD_IND        |                            |
      |   (msg: +CPOL: PLMN APP)   |                            |
      *<==========================*                            |
(12)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value

(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPOL_NEW_3
	cmd_seq	C_PLUS_CPOL_NEW_3
(2) SIM_UPDATE_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_PLMNSEL
	length	NUM_27
	trans_data	A_EF_PLMNSEL_NEW_CMP
(3) SIM_UPDATE_CNF	datafield	SIM_PLMNSEL
	error	SIM_NO_ERROR
(4) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(5) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPOL_Q
	cmd_seq	C_PLUS_CPOL_Q
(6) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN1_CMP
	cmd_seq	M_PLUS_CPOL_PLMN1_CMP
(7) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN2_CMP
	cmd_seq	M_PLUS_CPOL_PLMN2_CMP
(8) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN3_CMP
	cmd_seq	M_PLUS_CPOL_PLMN3_CMP
(9) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN4_CMP
	cmd_seq	M_PLUS_CPOL_PLMN4_CMP
(10) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN5_CMP
	cmd_seq	M_PLUS_CPOL_PLMN5_CMP
(11) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN_NEW_CMP
	cmd_seq	M_PLUS_CPOL_PLMN_NEW_CMP
(12) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 08.10.99 AK Initial

4.8.16 ACIATI095: Append Entry to Preferred PLMN list, read list first compact mode

Description:

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
   COMMAND (MMI CONFIG CPOL_MODE=0)
(3)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(4)   |                            |        SIM_READ_REQ        |
      |                            *==========================> *
(5)   |                            |        SIM_READ_CNF        |
      |                            *<========================== *
(6)   |                            |       SIM_UPDATE_REQ       |
      |                            *==========================> *
(7)   |                            |       SIM_UPDATE_CNF       |
      |                            *<========================== *
(8)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(9)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(10)  |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN1)    |                            |
      *<==========================*                            |
(11)  |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN2)    |                            |
      *<==========================*                            |
(12)  |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN3)    |                            |
      *<==========================*                            |
(13)  |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN4)    |                            |
      *<==========================*                            |
(14)  |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN5)    |                            |
      *<==========================*                            |
(15)  |         ACI_CMD_IND        |                            |
      |   (msg: +CPOL: PLMN APP)   |                            |
      *<==========================*                            |
(16)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPOL_FRMT_LONG
	cmd_seq	C_PLUS_CPOL_FRMT_LONG

(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPOL_NEW_3
	cmd_seq	C_PLUS_CPOL_NEW_3
(4) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_PLMNSEL
	length	NOT_PRESENT_8BIT
	max_length	NUM_30
(5) SIM_READ_CNF	datafield	SIM_PLMNSEL
	error	SIM_NO_ERROR
	length	NUM_27
	trans_data	A_EF_PLMNSEL
(6) SIM_UPDATE_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_PLMNSEL
	length	NUM_27
	trans_data	A_EF_PLMNSEL_NEW_CMP
(7) SIM_UPDATE_CNF	datafield	SIM_PLMNSEL
	error	SIM_NO_ERROR
(8) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(9) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPOL_Q
	cmd_seq	C_PLUS_CPOL_Q
(10) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN1_CMP
	cmd_seq	M_PLUS_CPOL_PLMN1_CMP
(11) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN2_CMP
	cmd_seq	M_PLUS_CPOL_PLMN2_CMP
(12) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN3_CMP
	cmd_seq	M_PLUS_CPOL_PLMN3_CMP
(13) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN4_CMP
	cmd_seq	M_PLUS_CPOL_PLMN4_CMP
(14) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN5_CMP
	cmd_seq	M_PLUS_CPOL_PLMN5_CMP
(15) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN_NEW_CMP
	cmd_seq	M_PLUS_CPOL_PLMN_NEW_CMP
(16) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 08.10.99 AK Initial

4.8.17 ACIATI096: Change Entries of Preferred PLMN list, list alread read compact mode

Description:

Preamble:

ACIATI089

```
     APL                          ACI                          PS
      |                            |                            |
      |                            |                            |
COMMAND (MMI CONFIG CPOL_MODE=0)
COMMAND (MMI CONFIG CPOL_IDX2=5)
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(2)   |                            |       SIM_UPDATE_REQ       |
      |                            *==========================> *
(3)   |                            |       SIM_UPDATE_CNF       |
      |                            *<========================== *
(4)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(5)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(6)   |         ACI_CMD_IND        |                            |
      |   (msg: +CPOL: PLMN5 CHG)  |                            |
      *<==========================*                            |
(7)   |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN2)    |                            |
      *<==========================*                            |
(8)   |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN3)    |                            |
      *<==========================*                            |
(9)   |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN4)    |                            |
      *<==========================*                            |
(10)  |         ACI_CMD_IND        |                            |
      |   (msg: +CPOL: PLMN1 CHG)  |                            |
      *<==========================*                            |
(11)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPOL_CHG
	cmd_seq	C_PLUS_CPOL_CHG

(2) SIM_UPDATE_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_PLMNSEL
	length	NUM_27
	trans_data	A_EF_PLMNSEL_CHG_CMP
(3) SIM_UPDATE_CNF	datafield	SIM_PLMNSEL
	error	SIM_NO_ERROR
(4) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(5) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPOL_Q
	cmd_seq	C_PLUS_CPOL_Q
(6) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN5_CHG
	cmd_seq	M_PLUS_CPOL_PLMN5_CHG
(7) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN2_CMP
	cmd_seq	M_PLUS_CPOL_PLMN2_CMP
(8) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN3_CMP
	cmd_seq	M_PLUS_CPOL_PLMN3_CMP
(9) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN4_CMP
	cmd_seq	M_PLUS_CPOL_PLMN4_CMP
(10) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN1_CHG
	cmd_seq	M_PLUS_CPOL_PLMN1_CHG
(11) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 08.10.99 AK Initial

4.8.18 ACIATI097: Change Entries of Preferred PLMN list, read list first compact mode

Description:

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
```

```
   COMMAND (MMI CONFIG CPOL_MODE=0)
   COMMAND (MMI CONFIG CPOL_IDX2=5)
(3)   |         ACI_CMD_REQ         |                            |
      |       (cmd: AT+CPOL)        |                            |
      *==========================>*                            |
(4)   |                             |        SIM_READ_REQ        |
      |                             *==========================>*
(5)   |                             |        SIM_READ_CNF        |
      |                             *<==========================*
(6)   |                             |       SIM_UPDATE_REQ       |
      |                             *==========================>*
(7)   |                             |       SIM_UPDATE_CNF       |
      |                             *<==========================*
(8)   |         ACI_CMD_IND         |                            |
      |          (msg: OK)          |                            |
      *<==========================*                            |
(9)   |         ACI_CMD_REQ         |                            |
      |       (cmd: AT+CPOL)        |                            |
      *==========================>*                            |
(10)  |         ACI_CMD_IND         |                            |
      |   (msg: +CPOL: PLMN5 CHG)   |                            |
      *<==========================*                            |
(11)  |         ACI_CMD_IND         |                            |
      |     (msg: +CPOL: PLMN2)     |                            |
      *<==========================*                            |
(12)  |         ACI_CMD_IND         |                            |
      |     (msg: +CPOL: PLMN3)     |                            |
      *<==========================*                            |
(13)  |         ACI_CMD_IND         |                            |
      |     (msg: +CPOL: PLMN4)     |                            |
      *<==========================*                            |
(14)  |         ACI_CMD_IND         |                            |
      |   (msg: +CPOL: PLMN1 CHG)   |                            |
      *<==========================*                            |
(15)  |         ACI_CMD_IND         |                            |
      |          (msg: OK)          |                            |
      *<==========================*                            |
      |                             |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPOL_FRMT_LONG
	cmd_seq	C_PLUS_CPOL_FRMT_LONG
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPOL_CHG
	cmd_seq	C_PLUS_CPOL_CHG
(4) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0

	datafield	SIM_PLMNSEL
	length	NOT_PRESENT_8BIT
	max_length	NUM_30
(5) SIM_READ_CNF	datafield	SIM_PLMNSEL
	error	SIM_NO_ERROR
	length	NUM_27
	trans_data	A_EF_PLMNSEL
(6) SIM_UPDATE_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_PLMNSEL
	length	NUM_27
	trans_data	A_EF_PLMNSEL_CHG_CMP
(7) SIM_UPDATE_CNF	datafield	SIM_PLMNSEL
	error	SIM_NO_ERROR
(8) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(9) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPOL_Q
	cmd_seq	C_PLUS_CPOL_Q
(10) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN5_CHG
	cmd_seq	M_PLUS_CPOL_PLMN5_CHG
(11) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN2_CMP
	cmd_seq	M_PLUS_CPOL_PLMN2_CMP
(12) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN3_CMP
	cmd_seq	M_PLUS_CPOL_PLMN3_CMP
(13) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN4_CMP
	cmd_seq	M_PLUS_CPOL_PLMN4_CMP
(14) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN1_CHG
	cmd_seq	M_PLUS_CPOL_PLMN1_CHG
(15) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 08.10.99 AK Initial

4.8.19 ACIATI098: Insert Entry at first position in Preferred PLMN list, read list first compact mode

Description:

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
   COMMAND (MMI CONFIG CPOL_MODE=1)
(3)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(4)   |                            |        SIM_READ_REQ        |
      |                            *==========================> *
(5)   |                            |        SIM_READ_CNF        |
      |                            *<========================== *
(6)   |                            |       SIM_UPDATE_REQ       |
      |                            *==========================> *
(7)   |                            |       SIM_UPDATE_CNF       |
      |                            *<========================== *
(8)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
   COMMAND (MMI CONFIG CPOL_MODE=0)
(9)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPOL)       |                            |
      *==========================>*                            |
(10)  |         ACI_CMD_IND        |                            |
      |   (msg: +CPOL: PLMN INS)   |                            |
      *<==========================*                            |
(11)  |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN1)    |                            |
      *<==========================*                            |
(12)  |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN2)    |                            |
      *<==========================*                            |
(13)  |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN3)    |                            |
      *<==========================*                            |
(14)  |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN4)    |                            |
      *<==========================*                            |
(15)  |         ACI_CMD_IND        |                            |
      |     (msg: +CPOL: PLMN5)    |                            |
      *<==========================*                            |
(16)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT

	cmd_len	LC_PLUS_CPOL_FRMT_LONG
	cmd_seq	C_PLUS_CPOL_FRMT_LONG
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPOL_INS_1
	cmd_seq	C_PLUS_CPOL_INS_1
(4) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_PLMNSEL
	length	NOT_PRESENT_8BIT
	max_length	NUM_30
(5) SIM_READ_CNF	datafield	SIM_PLMNSEL
	error	SIM_NO_ERROR
	length	NUM_27
	trans_data	A_EF_PLMNSEL
(6) SIM_UPDATE_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_PLMNSEL
	length	NUM_27
	trans_data	A_EF_PLMNSEL_INS_1_CMP
(7) SIM_UPDATE_CNF	datafield	SIM_PLMNSEL
	error	SIM_NO_ERROR
(8) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(9) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPOL_Q
	cmd_seq	C_PLUS_CPOL_Q
(10) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN_INS_1_LNG
	cmd_seq	M_PLUS_CPOL_PLMN_INS_1_LNG
(11) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN1_INS
	cmd_seq	M_PLUS_CPOL_PLMN1_INS
(12) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN2_INS
	cmd_seq	M_PLUS_CPOL_PLMN2_INS
(13) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN3_INS
	cmd_seq	M_PLUS_CPOL_PLMN3_INS
(14) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN4_INS
	cmd_seq	M_PLUS_CPOL_PLMN4_INS
(15) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPOL_PLMN5_INS
	cmd_seq	M_PLUS_CPOL_PLMN5_INS

(16) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 08.10.99 AK Initial

4.9 Multiparty call management "+CHLD" (ACIATI101-ACIATI129)

4.9.1 ACIATI101: Build multiparty call

Description:

Build multiparty call out of an active and a held call.

Preamble:

ACIATI032

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: AT+CHLD=3)      |                            |
      *==========================>*                            |
(2)   |                            |     MNCC_FACILITY_REQ      |
      |                            *==========================>*
(3)   |                            |     MNCC_FACILITY_IND      |
      |                            *<==========================*
(4)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CHLD_3
	cmd_seq	C_PLUS_CHLD_3
(2) MNCC_FACILITY_REQ		
	ti	NUM_1
	fac_inf	A_FAC_BUILD_MPTY
	ss_version	NUM_0
(3) MNCC_FACILITY_IND		
	ti	NUM_1
	fac_context	NOT_USED
	fac_inf	A_FAC_BUILD_MPTY_RES
(4) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 20.05.99 AK Initial

4.9.2 ACIATI102: Establish a new call while putting the multiparty on hold

Description:

New call setup. Multiparty call will be put on hold first.

Preamble:

ACIATI101

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |     (cmd: ATD123456;)      |                            |
      *==========================>*                            |
(2)   |                            |     MNCC_FACILITY_REQ      |
      |                            *==========================> *
(3)   |                            |     MNCC_FACILITY_IND      |
      |                            *<========================== *
(4)   |                            |       MNCC_SETUP_REQ       |
      |                            *==========================> *
(5)   |                            |   MNCC_CALL_PROCEED_IND    |
      |                            *<========================== *
(6)   |                            |     MNCC_PROGRESS_IND      |
      |                            *<========================== *
(7)   |                            |       MNCC_ALERT_IND       |
      |                            *<========================== *
(8)   |                            |       MNCC_SYNC_IND        |
      |                            *<========================== *
(9)   |                            |       MNCC_SETUP_CNF       |
      |                            *<========================== *
(10)  |        ACI_CMD_IND         |                            |
      |     (msg: +COLP:...)       |                            |
      *<==========================*                            |
(11)  |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_D_VOICE
	cmd_seq	C_D_VOICE
(2) MNCC_FACILITY_REQ		
	ti	NUM_0
	fac_inf	A_FAC_HOLD_MPTY
	ss_version	NUM_0
(3) MNCC_FACILITY_IND		
	ti	NUM_0
	fac_context	NOT_USED
	fac_inf	A_FAC_HOLD_MPTY_RES
(4) MNCC_SETUP_REQ		
	ti	NUM_2

	prio	PRIO_NORM_CALL
	ri	RI_NOT_PRES
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT
	called_party	S_CLD_PARTY
	called_party_sub	S_CLD_PARTY_SUB
	clir_sup	CLR_SUP
	fac_inf	NOT_USED
(5) MNCC_CALL_PROCEED_IND		
	ti	NUM_2
	progress_desc	PROG_NOT_PRES
	ri	RI_NOT_PRES
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT
(6) MNCC_PROGRESS_IND		
	ti	NUM_2
	progress_desc	PROG_NOT_PRES
(7) MNCC_ALERT_IND		
	ti	NUM_2
	progress_desc	PROG_NOT_PRES
(8) MNCC_SYNC_IND		
	ti	NOT_PRESENT_8BIT
	cause	CAUSE_NOT_PRES
	chm	S_CHN_SPEECH
(9) MNCC_SETUP_CNF		
	ti	NUM_2
	res	RES_POS
	progress_desc	PROG_NOT_PRES
	connected_number	S_CLG_PARTY
	connected_number_sub	S_CLG_PARTY_SUB
(10) ACI_CMD_IND		
	cmd_len	LM_PLUS_COLP_NUM
	cmd_seq	M_PLUS_COLP_NUM
(11) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 20.05.99 AK Initial

4.9.3 ACIATI103: Place multiparty on hold

Description:

Place multiparty call on hold.

Preamble:

ACIATI101

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: AT+CHLD=2)      |                            |
      *==========================>*                            |
(2)   |                            |     MNCC_FACILITY_REQ      |
      |                            *==========================> *
(3)   |                            |     MNCC_FACILITY_IND      |
      |                            *<========================== *
(4)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_PLUS_CHLD_2
		cmd_seq	C_PLUS_CHLD_2
(2)	MNCC_FACILITY_REQ		
		ti	NUM_0
		fac_inf	A_FAC_HOLD_MPTY
		ss_version	NUM_0
(3)	MNCC_FACILITY_IND		
		ti	NUM_0
		fac_context	NOT_USED
		fac_inf	A_FAC_HOLD_MPTY_RES
(4)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History: 20.05.99 AK Initial

4.9.4 ACIATI104: Retrieve held multiparty

Description:

Retrieve a held multiparty call.

Preamble:

ACIATI103

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: AT+CHLD=2)      |                            |
      *==========================>*                            |
(2)   |                            |     MNCC_FACILITY_REQ      |
      |                            *==========================> *
(3)   |                            |     MNCC_FACILITY_IND      |
      |                            *<========================== *
(4)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CHLD_2
	cmd_seq	C_PLUS_CHLD_2
(2) MNCC_FACILITY_REQ		
	ti	NUM_0
	fac_inf	A_FAC_RETRIEVE_MPTY
	ss_version	NUM_0
(3) MNCC_FACILITY_IND		
	ti	NUM_0
	fac_context	NOT_USED
	fac_inf	A_FAC_RETRIEVE_MPTY_RES
(4) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 20.05.99 AK Initial

4.9.5 ACIATI105: Split multiparty

Description:

Split multiparty call and continue communication with call 0.

Preamble:

ACIATI101

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |      (cmd: AT+CHLD=21)     |                            |
      *==========================>*                            |
(2)   |                            |     MNCC_FACILITY_REQ      |
      |                            *==========================> *
(3)   |                            |     MNCC_FACILITY_IND      |
      |                            *<========================== *
(4)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_PLUS_CHLD_21
		cmd_seq	C_PLUS_CHLD_21
(2)	MNCC_FACILITY_REQ		
		ti	NUM_0
		fac_inf	A_FAC_SPLIT_MPTY
		ss_version	NUM_0
(3)	MNCC_FACILITY_IND		
		ti	NUM_0
		fac_context	NOT_USED
		fac_inf	A_FAC_SPLIT_MPTY_RES
(4)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History: 20.05.99 AK Initial

4.9.6 ACIATI106: Build multiparty call with timeout

Description:

Build multiparty call out of an active and a two held calls. Network timed out.

Preamble:

ACIATI032

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: AT+CHLD=3)      |                            |
      *==========================>*                            |
(2)   |                            |     MNCC_FACILITY_REQ      |
      |                            *==========================>*
   TIMEOUT (13000)
(3)   |        ACI_CMD_IND         |                            |
      |        (msg: ERROR)        |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CHLD_3
	cmd_seq	C_PLUS_CHLD_3
(2) MNCC_FACILITY_REQ		
	ti	NUM_1
	fac_inf	A_FAC_BUILD_MPTY
	ss_version	NUM_0
(3) ACI_CMD_IND		
	cmd_len	LM_ERROR
	cmd_seq	M_ERROR

History: 28.06.99 AK Initial

4.9.7 ACIATI107: Toggle Held Multiparty and Active Call

Description:

The active call will put on hold and the held multiparty will be retrieved.

Preamble:

ACIATI102

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: AT+CHLD=2)      |                            |
      *==========================>*                            |
(2)   |                            |       MNCC_HOLD_REQ        |
      |                            *==========================> *
(3)   |                            |     MNCC_FACILITY_REQ      |
      |                            *==========================> *
(4)   |                            |       MNCC_HOLD_CNF        |
      |                            *<========================== *
(5)   |                            |     MNCC_FACILITY_IND      |
      |                            *<========================== *
(6)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CHLD_2
	cmd_seq	C_PLUS_CHLD_2
(2) MNCC_HOLD_REQ		
	ti	NUM_2
(3) MNCC_FACILITY_REQ		
	ti	NUM_0
	fac_inf	A_FAC_RETRIEVE_MPTY
	ss_version	NUM_0
(4) MNCC_HOLD_CNF		
	ti	NUM_2
	res	RES_POS
(5) MNCC_FACILITY_IND		
	ti	NUM_0
	fac_context	NOT_USED
	fac_inf	A_FAC_RETRIEVE_MPTY_RES
(6) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 20.05.99 AK Initial

4.9.8 ACIATI108: Toggle Active Multiparty and Held Call

Description:

The active multiparty will be put on hold and the held call will be retrieved.

Preamble:

ACIATI107

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: AT+CHLD=2)      |                            |
      *==========================>*                            |
(2)   |                            |     MNCC_FACILITY_REQ      |
      |                            *==========================> *
(3)   |                            |     MNCC_RETRIEVE_REQ      |
      |                            *==========================> *
(4)   |                            |     MNCC_FACILITY_IND      |
      |                            *<========================== *
(5)   |                            |     MNCC_RETRIEVE_CNF      |
      |                            *<========================== *
(6)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CHLD_2
	cmd_seq	C_PLUS_CHLD_2
(2) MNCC_FACILITY_REQ		
	ti	NUM_0
	fac_inf	A_FAC_HOLD_MPTY_2
	ss_version	NUM_0
(3) MNCC_RETRIEVE_REQ		
	ti	NUM_2
(4) MNCC_FACILITY_IND		
	ti	NUM_0
	fac_context	NOT_USED
	fac_inf	A_FAC_HOLD_MPTY_RES
(5) MNCC_RETRIEVE_CNF		
	ti	NUM_2
	res	RES_POS
(6) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 20.05.99 AK Initial

4.9.9 ACIATI109: Place all active multiparty on hold and accept the waiting call

Description:

Place the current active multiparty call on hold. Accept the incoming call.

Preamble:

ACIATI101

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: AT+CCWA=1)      |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
(3)   |                            |       MNCC_SETUP_IND       |
      |                            *<==========================*
(4)   |        ACI_CMD_IND         |                            |
      |     (msg: +CCWA: ...)      |                            |
      *<==========================*                            |
(5)   |                            |       MNCC_ALERT_REQ       |
      |                            *==========================>*
(6)   |        ACI_CMD_REQ         |                            |
      |      (cmd: AT+CHLD=2)      |                            |
      *==========================>*                            |
(7)   |                            |     MNCC_FACILITY_REQ      |
      |                            *==========================>*
(8)   |                            |     MNCC_FACILITY_IND      |
      |                            *<==========================*
(9)   |                            |       MNCC_SETUP_RES       |
      |                            *==========================>*
(10)  |                            |       MNCC_SYNC_IND        |
      |                            *<==========================*
(11)  |                            |    MNCC_SETUP_COMPL_IND    |
      |                            *<==========================*
(12)  |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CCWA_ON
	cmd_seq	C_PLUS_CCWA_ON
(2) ACI_CMD_IND		
	cmd_len	NOT_USED
	cmd_seq	NOT_USED
(3) MNCC_SETUP_IND		
	ti	NUM_8
	ri	RI_NOT_PRES

	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT
	progress_desc	PROG_NOT_PRES
	sig	SIG_RING_BACK_TONE_ON
	calling_party	S_CLG_PARTY
	calling_party_sub	S_CLG_PARTY_SUB
	called_party	S_CLD_PARTY
	called_party_sub	S_CLD_PARTY_SUB
(4) ACI_CMD_IND		
	cmd_len	LM_PLUS_CCWA
	cmd_seq	M_PLUS_CCWA
(5) MNCC_ALERT_REQ		
	ti	NUM_8
(6) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CHLD_2
	cmd_seq	C_PLUS_CHLD_2
(7) MNCC_FACILITY_REQ		
	ti	NUM_0
	fac_inf	A_FAC_HOLD_MPTY
	ss_version	NUM_0
(8) MNCC_FACILITY_IND		
	ti	NUM_0
	fac_context	NOT_USED
	fac_inf	A_FAC_HOLD_MPTY_RES
(9) MNCC_SETUP_RES		
	ti	NUM_8
(10) MNCC_SYNC_IND		
	ti	NOT_PRESENT_8BIT
	cause	CAUSE_NOT_PRES
	chm	S_CHN_SPEECH
(11) MNCC_SETUP_COMPL_IND		
	ti	NUM_8
	res	RES_POS
(12) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 22.12.98 AK Initial

4.9.10 ACIATI110: Release active multiparty and accept the waiting call

Description:

Release all members of the active multiparty call. Accept the incoming call.

Preamble:

ACIATI101

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: AT+CCWA=1)      |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
(3)   |                            |       MNCC_SETUP_IND       |
      |                            *<==========================*
(4)   |        ACI_CMD_IND         |                            |
      |     (msg: +CCWA: ...)      |                            |
      *<==========================*                            |
(5)   |                            |       MNCC_ALERT_REQ       |
      |                            *==========================>*
(6)   |        ACI_CMD_REQ         |                            |
      |      (cmd: AT+CHLD=1)      |                            |
      *==========================>*                            |
(7)   |                            |    MNCC_DISCONNECT_REQ     |
      |                            *==========================>*
(8)   |                            |        SIM_SYNC_REQ        |
      |                            *==========================>*
(9)   |                            |    MNCC_DISCONNECT_REQ     |
      |                            *==========================>*
(10)  |                            |      MNCC_RELEASE_IND      |
      |                            *<==========================*
(11)  |                            |      MNCC_RELEASE_IND      |
      |                            *<==========================*
(12)  |                            |       MNCC_SETUP_RES       |
      |                            *==========================>*
(13)  |                            |        SIM_SYNC_REQ        |
      |                            *==========================>*
(14)  |                            |       MNCC_SYNC_IND        |
      |                            *<==========================*
(15)  |                            |    MNCC_SETUP_COMPL_IND    |
      |                            *<==========================*
(16)  |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT

	cmd_len	LC_PLUS_CCWA_ON
	cmd_seq	C_PLUS_CCWA_ON
(2) ACI_CMD_IND		
	cmd_len	NOT_USED
	cmd_seq	NOT_USED
(3) MNCC_SETUP_IND		
	ti	NUM_8
	ri	RI_NOT_PRES
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT
	progress_desc	PROG_NOT_PRES
	sig	SIG_RING_BACK_TONE_ON
	calling_party	S_CLG_PARTY
	calling_party_sub	S_CLG_PARTY_SUB
	called_party	S_CLD_PARTY
	called_party_sub	S_CLD_PARTY_SUB
(4) ACI_CMD_IND		
	cmd_len	LM_PLUS_CCWA
	cmd_seq	M_PLUS_CCWA
(5) MNCC_ALERT_REQ		
	ti	NUM_8
(6) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CHLD_1
	cmd_seq	C_PLUS_CHLD_1
(7) MNCC_DISCONNECT_REQ		
	ti	NUM_0
	cause	CAUSE_CALL_CLEAR
(8) SIM_SYNC_REQ		
	synccs	SYNC_STOP_CALL
(9) MNCC_DISCONNECT_REQ		
	ti	NUM_1
	cause	CAUSE_CALL_CLEAR
(10) MNCC_RELEASE_IND		
	ti	NUM_0
	cause	CAUSE_CALL_CLEAR
(11) MNCC_RELEASE_IND		
	ti	NUM_1
	cause	CAUSE_CALL_CLEAR
(12) MNCC_SETUP_RES		
	ti	NUM_8
(13) SIM_SYNC_REQ		
	synccs	SYNC_START_CALL
(14) MNCC_SYNC_IND		
	ti	NOT_PRESENT_8BIT
	cause	CAUSE_NOT_PRES
	chm	S_CHN_SPEECH
(15) MNCC_SETUP_COMPL_IND		
	ti	NUM_8
	res	RES_POS

(16) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 22.12.98 AK Initial

4.9.11 ACIATI111: Release active multiparty and retrieve held call

Description:

The active multiparty will be released and the held call will be retrieved.

Preamble:

ACIATI107

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |     (cmd: AT+CHLD=1)       |                            |
      *==========================>*                            |
(2)   |                            |    MNCC_DISCONNECT_REQ     |
      |                            *==========================>*
(3)   |                            |    MNCC_DISCONNECT_REQ     |
      |                            *==========================>*
(4)   |                            |     MNCC_RELEASE_IND       |
      |                            *<==========================*
(5)   |                            |     MNCC_RELEASE_IND       |
      |                            *<==========================*
(6)   |                            |     MNCC_RETRIEVE_REQ      |
      |                            *==========================>*
(7)   |                            |     MNCC_RETRIEVE_CNF      |
      |                            *<==========================*
(8)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CHLD_1
	cmd_seq	C_PLUS_CHLD_1
(2) MNCC_DISCONNECT_REQ		
	ti	NUM_0
	cause	CAUSE_CALL_CLEAR
(3) MNCC_DISCONNECT_REQ		
	ti	NUM_1
	cause	CAUSE_CALL_CLEAR
(4) MNCC_RELEASE_IND		
	ti	NUM_0
	cause	CAUSE_CALL_CLEAR
(5) MNCC_RELEASE_IND		
	ti	NUM_1
	cause	CAUSE_CALL_CLEAR

(6) MNCC_RETRIEVE_REQ

ti	NUM_2

(7) MNCC_RETRIEVE_CNF

ti	NUM_2
res	RES_POS

(8) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History: 20.05.99 AK Initial

4.9.12 ACIATI112: Successful explicit call transfer

Description:

An active call and a call on hold will explicitly transfered.

Preamble:

ACIATI032

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: AT+CHLD=4)      |                            |
      *==========================>*                            |
(2)   |                            |     MNCC_FACILITY_REQ      |
      |                            *==========================>*
(3)   |                            |    MNCC_DISCONNECT_IND     |
      |                            *<==========================*
(4)   |                            |     MNCC_FACILITY_IND      |
      |                            *<==========================*
(5)   |                            |    MNCC_DISCONNECT_IND     |
      |                            *<==========================*
(6)   |                            |        SIM_SYNC_REQ        |
      |                            *==========================>*
(7)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
(8)   |                            |     MNCC_RELEASE_CNF       |
      |                            *<==========================*
(9)   |                            |     MNCC_RELEASE_CNF       |
      |                            *<==========================*
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CHLD_4
	cmd_seq	C_PLUS_CHLD_4
(2) MNCC_FACILITY_REQ		
	ti	NUM_0
	fac_inf	A_FAC_ECT
	ss_version	NUM_0

(3) MNCC_DISCONNECT_IND

ti	NUM_0
cause	CAUSE_CALL_CLEAR
diagnostic	NOT_PRESENT_8BIT
progress_desc	PROG_NOT_PRES

(4) MNCC_FACILITY_IND

ti	NUM_0
fac_context	NOT_USED
fac_inf	A_FAC_ECT_RES

(5) MNCC_DISCONNECT_IND

ti	NUM_1
cause	CAUSE_CALL_CLEAR
diagnostic	NOT_PRESENT_8BIT
progress_desc	PROG_NOT_PRES

(6) SIM_SYNC_REQ

synccs	SYNC_STOP_CALL

(7) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(8) MNCC_RELEASE_CNF

ti	NUM_0
cause	CAUSE_NOT_PRES

(9) MNCC_RELEASE_CNF

ti	NUM_1
cause	CAUSE_NOT_PRES

History: 20.05.99 AK Initial

4.9.13 ACIATI113: Release all held calls

Description:

Release all held calls. One is held one is active

Preamble:

ACIATI032

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: AT+CHLD=0)      |                            |
      *==========================>*                            |
(2)   |                            |    MNCC_DISCONNECT_REQ     |
      |                            *==========================>*
(3)   |                            |     MNCC_RELEASE_IND       |
      |                            *<==========================*
(4)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value

(1) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_PLUS_CHLD_0
cmd_seq	C_PLUS_CHLD_0

(2) MNCC_DISCONNECT_REQ

ti	NUM_0
cause	CAUSE_CALL_CLEAR

(3) MNCC_RELEASE_IND

ti	NUM_0
cause	CAUSE_CALL_CLEAR

(4) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History: 22.12.98 AK Initial

4.9.14 ACIATI114: UDUB for a waiting call

Description:

Disconnect an incoming call with cause user determined user busy.

Preamble:

ACIATI031A

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: AT+CCWA=1)      |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
(3)   |                            |       MNCC_SETUP_IND       |
      |                            *<==========================*
(4)   |        ACI_CMD_IND         |                            |
      |     (msg: +CCWA: ...)      |                            |
      *<==========================*                            |
(5)   |                            |       MNCC_ALERT_REQ       |
      |                            *==========================>*
(6)   |        ACI_CMD_REQ         |                            |
      |      (cmd: AT+CHLD=0)      |                            |
      *==========================>*                            |
(7)   |                            |    MNCC_DISCONNECT_REQ     |
      |                            *==========================>*
(8)   |                            |     MNCC_RELEASE_IND       |
      |                            *<==========================*
(9)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT

	cmd_len	LC_PLUS_CCWA_ON
	cmd_seq	C_PLUS_CCWA_ON
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) MNCC_SETUP_IND		
	ti	NUM_8
	ri	RI_NOT_PRES
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT
	progress_desc	PROG_NOT_PRES
	sig	SIG_RING_BACK_TONE_ON
	calling_party	S_CLG_PARTY
	calling_party_sub	S_CLG_PARTY_SUB
	called_party	S_CLD_PARTY
	called_party_sub	S_CLD_PARTY_SUB
(4) ACI_CMD_IND		
	cmd_len	LM_PLUS_CCWA
	cmd_seq	M_PLUS_CCWA
(5) MNCC_ALERT_REQ		
	ti	NUM_8
(6) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CHLD_0
	cmd_seq	C_PLUS_CHLD_0
(7) MNCC_DISCONNECT_REQ		
	ti	NUM_8
	cause	CAUSE_USER_BUSY
(8) MNCC_RELEASE_IND		
	ti	NUM_8
	cause	CAUSE_CALL_CLEAR
(9) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 22.12.98 AK Initial

4.9.15 ACIATI115: Release all active calls and accept held call

Description:

All active calls will be received. The first held call will be retrieved

Preamble:

ACIATI032

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: AT+CHLD=1)      |                            |
      *==========================>*                            |
(2)   |                            |    MNCC_DISCONNECT_REQ     |
      |                            *==========================>*
(3)   |                            |     MNCC_RELEASE_IND       |
      |                            *<==========================*
(4)   |                            |     MNCC_RETRIEVE_REQ      |
      |                            *==========================>*
(5)   |                            |     MNCC_RETRIEVE_CNF      |
      |                            *<==========================*
(6)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CHLD_1
	cmd_seq	C_PLUS_CHLD_1
(2) MNCC_DISCONNECT_REQ		
	ti	NUM_1
	cause	CAUSE_CALL_CLEAR
(3) MNCC_RELEASE_IND		
	ti	NUM_1
	cause	CAUSE_CALL_CLEAR
(4) MNCC_RETRIEVE_REQ		
	ti	NUM_0
(5) MNCC_RETRIEVE_CNF		
	ti	NUM_0
	res	RES_POS
(6) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 22.12.98 AK Initial

4.9.16 ACIATI116: Release all active calls and accept the waiting call

Description:

Release the current active call. Accept the incoming call.

Preamble:

ACIATI032

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: AT+CCWA=1)      |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
(3)   |                            |       MNCC_SETUP_IND       |
      |                            *<==========================*
(4)   |        ACI_CMD_IND         |                            |
      |     (msg: +CCWA: ...)      |                            |
      *<==========================*                            |
(5)   |                            |       MNCC_ALERT_REQ       |
      |                            *==========================>*
(6)   |        ACI_CMD_REQ         |                            |
      |      (cmd: AT+CHLD=1)      |                            |
      *==========================>*                            |
(7)   |                            |    MNCC_DISCONNECT_REQ     |
      |                            *==========================>*
(8)   |                            |      MNCC_RELEASE_IND      |
      |                            *<==========================*
(9)   |                            |       MNCC_SETUP_RES       |
      |                            *==========================>*
(10)  |                            |        MNCC_SYNC_IND       |
      |                            *<==========================*
(11)  |                            |    MNCC_SETUP_COMPL_IND    |
      |                            *<==========================*
(12)  |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CCWA_ON
	cmd_seq	C_PLUS_CCWA_ON
(2) ACI_CMD_IND		
	cmd_len	NOT_USED
	cmd_seq	NOT_USED
(3) MNCC_SETUP_IND		
	ti	NUM_8
	ri	RI_NOT_PRES

	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT
	progress_desc	PROG_NOT_PRES
	sig	SIG_RING_BACK_TONE_ON
	calling_party	S_CLG_PARTY
	calling_party_sub	S_CLG_PARTY_SUB
	called_party	S_CLD_PARTY
	called_party_sub	S_CLD_PARTY_SUB
(4) ACI_CMD_IND		
	cmd_len	LM_PLUS_CCWA
	cmd_seq	M_PLUS_CCWA
(5) MNCC_ALERT_REQ		
	ti	NUM_8
(6) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CHLD_1
	cmd_seq	C_PLUS_CHLD_1
(7) MNCC_DISCONNECT_REQ		
	ti	NUM_1
	cause	CAUSE_CALL_CLEAR
(8) MNCC_RELEASE_IND		
	ti	NUM_1
	cause	CAUSE_CALL_CLEAR
(9) MNCC_SETUP_RES		
	ti	NUM_8
(10) MNCC_SYNC_IND		
	ti	NOT_PRESENT_8BIT
	cause	CAUSE_NOT_PRES
	chm	S_CHN_SPEECH
(11) MNCC_SETUP_COMPL_IND		
	ti	NUM_8
	res	RES_POS
(12) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 22.12.98 AK Initial

4.9.17 ACIATI117: Place all active calls on hold and accept a held call

Description:

All active calls will be placed on hold. The first held call will be retrieved

Preamble:

ACIATI032

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: AT+CHLD=2)      |                            |
      *==========================>*                            |
(2)   |                            |       MNCC_HOLD_REQ        |
      |                            *==========================> *
(3)   |                            |     MNCC_RETRIEVE_REQ      |
      |                            *==========================> *
(4)   |                            |       MNCC_HOLD_CNF        |
      |                            *<========================== *
(5)   |                            |     MNCC_RETRIEVE_CNF      |
      |                            *<========================== *
(6)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CHLD_2
	cmd_seq	C_PLUS_CHLD_2
(2) MNCC_HOLD_REQ		
	ti	NUM_1
(3) MNCC_RETRIEVE_REQ		
	ti	NUM_0
(4) MNCC_HOLD_CNF		
	ti	NUM_1
	res	RES_POS
(5) MNCC_RETRIEVE_CNF		
	ti	NUM_0
	res	RES_POS
(6) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 23.12.98 AK Initial

4.9.18 ACIATI118: Place all active calls on hold and accept the waiting call

Description:

Place the current active call on hold. Accept the incoming call.

Preamble:

ACIATI031A

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: AT+CCWA=1)      |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
(3)   |                            |       MNCC_SETUP_IND       |
      |                            *<==========================*
(4)   |        ACI_CMD_IND         |                            |
      |     (msg: +CCWA: ...)      |                            |
      *<==========================*                            |
(5)   |                            |       MNCC_ALERT_REQ       |
      |                            *==========================>*
(6)   |        ACI_CMD_REQ         |                            |
      |      (cmd: AT+CHLD=2)      |                            |
      *==========================>*                            |
(7)   |                            |        MNCC_HOLD_REQ       |
      |                            *==========================>*
(8)   |                            |        MNCC_HOLD_CNF       |
      |                            *<==========================*
(9)   |                            |       MNCC_SETUP_RES       |
      |                            *==========================>*
(10)  |                            |        MNCC_SYNC_IND       |
      |                            *<==========================*
(11)  |                            |    MNCC_SETUP_COMPL_IND    |
      |                            *<==========================*
(12)  |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CCWA_ON
	cmd_seq	C_PLUS_CCWA_ON
(2) ACI_CMD_IND		
	cmd_len	NOT_USED
	cmd_seq	NOT_USED
(3) MNCC_SETUP_IND		
	ti	NUM_8
	ri	RI_NOT_PRES

	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT
	progress_desc	PROG_NOT_PRES
	sig	SIG_RING_BACK_TONE_ON
	calling_party	S_CLG_PARTY
	calling_party_sub	S_CLG_PARTY_SUB
	called_party	S_CLD_PARTY
	called_party_sub	S_CLD_PARTY_SUB
(4) ACI_CMD_IND		
	cmd_len	LM_PLUS_CCWA
	cmd_seq	M_PLUS_CCWA
(5) MNCC_ALERT_REQ		
	ti	NUM_8
(6) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CHLD_2
	cmd_seq	C_PLUS_CHLD_2
(7) MNCC_HOLD_REQ		
	ti	NUM_0
(8) MNCC_HOLD_CNF		
	ti	NUM_0
	res	RES_POS
(9) MNCC_SETUP_RES		
	ti	NUM_8
(10) MNCC_SYNC_IND		
	ti	NOT_PRESENT_8BIT
	cause	CAUSE_NOT_PRES
	chm	S_CHN_SPEECH
(11) MNCC_SETUP_COMPL_IND		
	ti	NUM_8
	res	RES_POS
(12) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 22.12.98 AK Initial

4.9.19 ACIATI119: Release a specific activ call

Description:

Release the specific active call.

Preamble:

ACIATI032

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |      (cmd: AT+CHLD=12)     |                            |
      *==========================>*                            |
(2)   |                            |    MNCC_DISCONNECT_REQ     |
      |                            *==========================>*
(3)   |                            |      MNCC_RELEASE_IND      |
      |                            *<==========================*
(4)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CHLD_12
	cmd_seq	C_PLUS_CHLD_12
(2) MNCC_DISCONNECT_REQ		
	ti	NUM_1
	cause	CAUSE_CALL_CLEAR
(3) MNCC_RELEASE_IND		
	ti	NUM_1
	cause	CAUSE_CALL_CLEAR
(4) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 22.12.98 AK Initial

4.9.20 ACIATI120: Place all active calls on hold and except call 1 with which communication should be supported

Description:

All active calls will be placed on hold. The held 1 call will be retrieved

Preamble:

ACIATI032

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |     (cmd: AT+CHLD=21)      |                            |
      *==========================>*                            |
(2)   |                            |       MNCC_HOLD_REQ        |
      |                            *==========================>*
(3)   |                            |     MNCC_RETRIEVE_REQ      |
      |                            *==========================>*
(4)   |                            |       MNCC_HOLD_CNF        |
      |                            *<==========================*
(5)   |                            |     MNCC_RETRIEVE_CNF      |
      |                            *<==========================*
(6)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CHLD_21
	cmd_seq	C_PLUS_CHLD_21
(2) MNCC_HOLD_REQ		
	ti	NUM_1
(3) MNCC_RETRIEVE_REQ		
	ti	NUM_0
(4) MNCC_HOLD_CNF		
	ti	NUM_1
	res	RES_POS
(5) MNCC_RETRIEVE_CNF		
	ti	NUM_0
	res	RES_POS
(6) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 23.12.98 AK Initial

4.9.21 ACIATI121: listing of supported modes

Description:

call related suupplementary services, listing of supported modes

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: +CHLD=?)        |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |      (cmd: +CHLD: )        |                            |
      *<==========================*                            |
(3)   |        ACI_CMD_IND         |                            |
      |         (cmd: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CHLD_T
	cmd_seq	C_CHLD_T
(2) ACI_CMD_IND		
	cmd_len	LM_CHLD_T
	cmd_seq	M_CHLD_T
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 11.01.2000 DAK Initial

4.9.22 ACIATI122: trying to performe a read command

Description:

call related suupplementary services, trying to performe a read command

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: +CHLD?)         |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |     (cmd: CME ERROR)       |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CHLD_Q
	cmd_seq	C_CHLD_Q
(2) ACI_CMD_IND		
	cmd_len	LM_CME_ERR_INV_OPP
	cmd_seq	M_CME_ERR_INV_OPP

History: 11.01.2000 DAK Initial

4.9.23 ACIATI123: trying to set an invalid parameter

Description:

call related suupplementary services,

Preamble:

ACIATI046A

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CHLD=)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |      (cmd: CME ERROR)      |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CHLD_S0
	cmd_seq	C_CHLD_S0
(2) ACI_CMD_IND		
	cmd_len	LM_CME_ERR_INV_OPP
	cmd_seq	M_CME_ERR_INV_OPP

History: 11.01.2000 DAK Initial

4.10 Single Numbering Scheme "+CSNS" (ACIATI0130-ACIATI130)

4.10.1 ACIATI130: Change Single Numbering Scheme

Description:

Change Single Numbering Scheme.

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CSNS?)      |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |      (msg: +CSNS: 0 )      |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(4)   |         ACI_CMD_REQ        |                            |
      |      (cmd: AT+CSNS=5)      |                            |
      *==========================>*                            |
(5)   |                            |     MNCC_CONFIGURE_REQ     |
      |                            *==========================> *
(6)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(7)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CSNS?)      |                            |
      *==========================>*                            |
(8)   |         ACI_CMD_IND        |                            |
      |       (msg: +CSNS: 7)      |                            |
      *<==========================*                            |
(9)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(10)  |         ACI_CMD_REQ        |                            |
      |    (cmd: AT+CBST=43,0,2)   |                            |
      *==========================>*                            |
(11)  |                            |     MNCC_CONFIGURE_REQ     |
      |                            *==========================> *
(12)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(13)  |         ACI_CMD_REQ        |                            |
      |      (cmd: AT+CSNS=7)      |                            |
      *==========================>*                            |
(14)  |                            |     MNCC_CONFIGURE_REQ     |
      |                            *==========================> *
(15)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CSNS_QUERY
	cmd_seq	C_PLUS_CSNS_QUERY
(2) ACI_CMD_IND		
	cmd_len	LM_PLUS_CSNS_0
	cmd_seq	M_PLUS_CSNS_0
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(4) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CSNS_VAF_V
	cmd_seq	C_PLUS_CSNS_VAF_V
(5) MNCC_CONFIGURE_REQ		
	called_party_sub	NOT_USED
	bcpara	S_BS_DEF
	sns_mode	SNS_MODE_VAF_FAX
(6) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(7) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CSNS_QUERY
	cmd_seq	C_PLUS_CSNS_QUERY
(8) ACI_CMD_IND		
	cmd_len	LM_PLUS_CSNS_5
	cmd_seq	M_PLUS_CSNS_5
(9) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(10) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CBST_14400_ASY_BTP
	cmd_seq	C_PLUS_CBST_14400_ASY_BTP
(11) MNCC_CONFIGURE_REQ		
	called_party_sub	NOT_USED
	bcpara	S_BS_FAX_14400
	sns_mode	SNS_MODE_VAF_FAX
(12) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(13) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CSNS_VFD
	cmd_seq	C_PLUS_CSNS_VFD

(14) MNCC_CONFIGURE_REQ

called_party_sub	NOT_USED
bcpara	S_BS_DAT_14400_ASY_BTP
sns_mode	SNS_MODE_VFD

(15) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History: 20.05.99 AK Initial

4.11 Facility Lock "+CLCK" (ACIATI131-ACIATI150)

4.11.1 ACIATI131: Enable FDN with PIN 2 Entry

Description:

Enable FDN. PIN 2 is verified upon entry request.

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |   (cmd: AT+CLCK="FD",...)  |                            |
      *==========================>*                            |
(2)   |                            |      SIM_ACTIVATE_REQ      |
      |                            *==========================>*
(3)   |                            |      SIM_ACTIVATE_CNF      |
      |                            *<==========================*
(4)   |                            |     SIM_MMI_INSERT_IND     |
      |                            *<==========================*
(5)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
(6)   |                            |        SIM_READ_REQ        |
      |                            *==========================>*
(7)   |                            |        SIM_READ_CNF        |
      |                            *<==========================*
(8)   |        ACI_CMD_REQ         |                            |
      |   (cmd: AT+CLCK="FD",...)  |                            |
      *==========================>*                            |
(9)   |        ACI_CMD_IND         |                            |
      |      (msg: +CLCK: 1)       |                            |
      *<==========================*                            |
(10)  |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CLCK_FD_ENA
	cmd_seq	C_PLUS_CLCK_FD_ENA

(2) SIM_ACTIVATE_REQ

proc	SIM_FDN_ENABLE
mmi_pro_file	NOT_USED
stk_pro_file	NOT_USED

(3) SIM_ACTIVATE_CNF

error	SIM_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

(4) SIM_MMI_INSERT_IND

func	SIM_FDN_ENABLED
sim_serv	NOT_USED
imsi_field	NOT_USED
pref_plmn	NOT_USED
phase	PHASE_2_SIM
access_acm	NOT_USED
access_acmmax	NOT_USED
access_puct	NOT_USED

(5) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(6) SIM_READ_REQ

source	SRC_MMI
offset	NUM_0
datafield	SIM_ECC
length	NOT_PRESENT_8BIT
max_length	NUM_0

(7) SIM_READ_CNF

datafield	SIM_ECC
error	SIM_NO_ERROR
length	NUM_12
trans_data	A_ECC_FIELD

(8) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_PLUS_CLCK_FD_QUERY
cmd_seq	C_PLUS_CLCK_FD_QUERY

(9) ACI_CMD_IND

cmd_len	LM_PLUS_CLCK_FD_ENA
cmd_seq	M_PLUS_CLCK_FD_ENA

(10) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History: 23.06.99 AK Initial

4.11.2 ACIATI132: Enable FDN no PIN 2 needed

Description:

Enable FDN. PIN 2 is not needed.

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |   (cmd: AT+CLCK="FD",...)  |                            |
      *==========================>*                            |
(2)   |                            |      SIM_ACTIVATE_REQ      |
      |                            *==========================>*
(3)   |                            |      SIM_ACTIVATE_CNF      |
      |                            *<==========================*
(4)   |                            |     SIM_MMI_INSERT_IND     |
      |                            *<==========================*
(5)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
(6)   |                            |        SIM_READ_REQ        |
      |                            *==========================>*
(7)   |                            |        SIM_READ_CNF        |
      |                            *<==========================*
(8)   |        ACI_CMD_REQ         |                            |
      |   (cmd: AT+CLCK="FD",...)  |                            |
      *==========================>*                            |
(9)   |        ACI_CMD_IND         |                            |
      |      (msg: +CLCK: 1)       |                            |
      *<==========================*                            |
(10)  |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CLCK_FD_NOPIN
	cmd_seq	C_PLUS_CLCK_FD_NOPIN
(2) SIM_ACTIVATE_REQ		
	proc	SIM_FDN_ENABLE
	mmi_pro_file	NOT_USED
	stk_pro_file	NOT_USED
(3) SIM_ACTIVATE_CNF		
	error	SIM_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
(4) SIM_MMI_INSERT_IND		
	func	SIM_FDN_ENABLED
	sim_serv	NOT_USED
	imsi_field	NOT_USED
	pref_plmn	NOT_USED
	phase	PHASE_2_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED
(5) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(6) SIM_READ_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_ECC
	length	NOT_PRESENT_8BIT
	max_length	NUM_0
(7) SIM_READ_CNF		
	datafield	SIM_ECC
	error	SIM_NO_ERROR
	length	NUM_12
	trans_data	A_ECC_FIELD
(8) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CLCK_FD_QUERY
	cmd_seq	C_PLUS_CLCK_FD_QUERY
(9) ACI_CMD_IND		
	cmd_len	LM_PLUS_CLCK_FD_ENA
	cmd_seq	M_PLUS_CLCK_FD_ENA
(10) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 23.06.99 AK Initial

4.11.3 ACIATI133: Enable FDN with wrong PIN 2 Entry

Description:

Enable FDN. PIN 2 is verified upon entry request. PIN 2 is false.

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |   (cmd: AT+CLCK="FD",...)  |                            |
      *==========================>*                            |
(2)   |                            |      SIM_ACTIVATE_REQ      |
      |                            *==========================>*
(3)   |                            |      SIM_ACTIVATE_CNF      |
      |                            *<==========================*
(4)   |        ACI_CMD_IND         |                            |
      |        (msg: ERROR)        |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CLCK_FD_ENA
	cmd_seq	C_PLUS_CLCK_FD_ENA
(2) SIM_ACTIVATE_REQ		
	proc	SIM_FDN_ENABLE
	mmi_pro_file	NOT_USED
	stk_pro_file	NOT_USED
(3) SIM_ACTIVATE_CNF		
	error	SIM_INVALID_PIN_2
	pin_cnt	NUM_3
	puk_cnt	NUM_10
	pin2_cnt	NUM_3
	puk2_cnt	NUM_10
	ec_code	NOT_USED
	pref_lang	NOT_USED
(4) ACI_CMD_IND		
	cmd_len	LM_ERROR
	cmd_seq	M_ERROR

History: 23.06.99 AK Initial

4.11.4 ACIATI134: Single Voice Call with failed FDN Check

Description:

Mobile originated voice call establishment with failed FDN check

Preamble:

ACIATI131

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: AT+CLIR=2)      |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
(3)   |        ACI_CMD_REQ         |                            |
      |      (cmd: AT+COLP=1)      |                            |
      *==========================>*                            |
(4)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
(5)   |        ACI_CMD_REQ         |                            |
      |     (cmd: ATD123456;)      |                            |
      *==========================>*                            |
(6)   |        ACI_CMD_IND         |                            |
      |       (msg: ERROR)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CLIR_SUP
	cmd_seq	C_PLUS_CLIR_SUP
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_COLP_ON
	cmd_seq	C_PLUS_COLP_ON
(4) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(5) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_D_VOICE
	cmd_seq	C_D_VOICE

(6) ACI_CMD_IND		
	cmd_len	LM_ERROR
	cmd_seq	M_ERROR

History: 23.06.99 AK Initial

4.11.5 ACIATI135: Disable FDN no PIN 2 Entry

Description:

Disable FDN after FDN was enabled. PIN 2 is not needed.

Preamble:

ACIATI132

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |   (cmd: AT+CLCK="FD",...)  |                            |
      *==========================>*                            |
(2)   |                            |      SIM_ACTIVATE_REQ      |
      |                            *==========================>*
(3)   |                            |      SIM_ACTIVATE_CNF      |
      |                            *<==========================*
(4)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
(5)   |        ACI_CMD_REQ         |                            |
      |   (cmd: AT+CLCK="FD",...)  |                            |
      *==========================>*                            |
(6)   |        ACI_CMD_IND         |                            |
      |      (msg: +CLCK: 1)       |                            |
      *<==========================*                            |
(7)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CLCK_FD_DIS
	cmd_seq	C_PLUS_CLCK_FD_DIS
(2) SIM_ACTIVATE_REQ		
	proc	SIM_FDN_DISABLE
	mmi_pro_file	NOT_USED
	stk_pro_file	NOT_USED
(3) SIM_ACTIVATE_CNF		
	error	SIM_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

(4) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(5) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_PLUS_CLCK_FD_QUERY
cmd_seq	C_PLUS_CLCK_FD_QUERY

(6) ACI_CMD_IND

cmd_len	LM_PLUS_CLCK_FD_DIS
cmd_seq	M_PLUS_CLCK_FD_DIS

(7) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History: 23.06.99 AK Initial

4.11.6 ACIATI136: Enable FDN with PIN 2 Entry

Description:

Enable FDN. PIN 2 is verified upon entry request.

Preamble:

ACIATI131

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |   (cmd: AT+CLCK="SC",...)  |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |       (msg: +CLCK: 0)      |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CLCK_SC_QUERY
	cmd_seq	C_PLUS_CLCK_SC_QUERY
(2) ACI_CMD_IND		
	cmd_len	LM_PLUS_CLCK_FD_DIS
	cmd_seq	M_PLUS_CLCK_FD_DIS
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 23.06.99 AK Initial

4.11.7 ACIATI137: Interrogate Call Barring status

Description:

interrogate network for CB status.

Preamble:

ACIATI001

Variants: <A>....<E>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CLCK=x,2)      |                            |
      *==========================>*                            |
(2)   |                            |       MNSS_BEGIN_REQ       |
      |                            *==========================>*
(3)   |                            |       MNSS_BEGIN_REQ       |
      |                            *==========================>*
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_PLUS_CLCK_AO_QUERY
<B>	cmd_len	LC_PLUS_CLCK_BOIC_QUERY
<C>	cmd_len	LC_PLUS_CLCK_BOICxHC_QUERY
<D>	cmd_len	LC_PLUS_CLCK_BAIC_QUERY
<E>	cmd_len	LC_PLUS_CLCK_BICR_QUERY
<A>	cmd_seq	C_PLUS_CLCK_AO_QUERY
<B>	cmd_seq	C_PLUS_CLCK_BOIC_QUERY
<C>	cmd_seq	C_PLUS_CLCK_BOICxHC_QUERY
<D>	cmd_seq	C_PLUS_CLCK_BAIC_QUERY
<E>	cmd_seq	C_PLUS_CLCK_BICR_QUERY
(2) MNSS_BEGIN_REQ		
	ti	NUM_0
<A>	fac_inf	A_FAC_CLCK_BAOC_IRGT_VF
<B>	fac_inf	A_FAC_CLCK_BOIC_IRGT_VF
<C>	fac_inf	A_FAC_CLCK_BOICxHC_IRGT_VF
<D>	fac_inf	A_FAC_CLCK_BAIC_IRGT_VF
<E>	fac_inf	A_FAC_CLCK_BICR_IRGT_VF
	ss_ver	NOT_USED
(3) MNSS_BEGIN_REQ		
	ti	NUM_1
<A>	fac_inf	A_FAC_CLCK_BAOC_IRGT_D
<B>	fac_inf	A_FAC_CLCK_BOIC_IRGT_D
<C>	fac_inf	A_FAC_CLCK_BOICxHC_IRGT_D
<D>	fac_inf	A_FAC_CLCK_BAIC_IRGT_D
<E>	fac_inf	A_FAC_CLCK_BICR_IRGT_D
	ss_ver	NOT_USED

History: 18.05.99 ACI Initial

4.11.8 ACIATI138: Activate Call Forwarding Voice/Data/Fax

Description:

Activate call forwarding SS for voice, data and fax.

Preamble:

ACIATI001

Variants: <A>....<E>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |    (cmd: +CLCK=x,0,...)    |                            |
      *==========================>*                            |
(2)   |                            |       MNSS_BEGIN_REQ       |
      |                            *==========================>*
(3)   |                            |       MNSS_BEGIN_REQ       |
      |                            *==========================>*
(4)   |                            |     MNSS_FACILITY_IND      |
      |                            *<==========================*
(5)   |                            |     MNSS_FACILITY_REQ      |
      |                            *==========================>*
(6)   |                            |     MNSS_FACILITY_IND      |
      |                            *<==========================*
(7)   |                            |     MNSS_FACILITY_REQ      |
      |                            *==========================>*
(8)   |                            |        MNSS_END_IND        |
      |                            *<==========================*
(9)   |                            |        MNSS_END_IND        |
      |                            *<==========================*
(10)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_PLUS_CLCK_BAOC_ACT
<B>	cmd_len	LC_PLUS_CLCK_BOIC_ACT
<C>	cmd_len	LC_PLUS_CLCK_BOICxHC_ACT
<D>	cmd_len	LC_PLUS_CLCK_BAIC_ACT
<E>	cmd_len	LC_PLUS_CLCK_BICR_ACT
<A>	cmd_seq	C_PLUS_CLCK_BAOC_ACT
<B>	cmd_seq	C_PLUS_CLCK_BOIC_ACT
<C>	cmd_seq	C_PLUS_CLCK_BOICxHC_ACT
<D>	cmd_seq	C_PLUS_CLCK_BAIC_ACT
<E>	cmd_seq	C_PLUS_CLCK_BICR_ACT
(2) MNSS_BEGIN_REQ		
	ti	NUM_0

<A>	fac_inf	A_FAC_CLCK_BAOC_ACT_VF
<B>	fac_inf	A_FAC_CLCK_BOIC_ACT_VF
<C>	fac_inf	A_FAC_CLCK_BOICxHC_ACT_VF
<D>	fac_inf	A_FAC_CLCK_BAIC_ACT_VF
<E>	fac_inf	A_FAC_CLCK_BICR_ACT_VF
	ss_ver	NOT_USED

(3) MNSS_BEGIN_REQ

	ti	NUM_1
<A>	fac_inf	A_FAC_CLCK_BAOC_ACT_D
<B>	fac_inf	A_FAC_CLCK_BOIC_ACT_D
<C>	fac_inf	A_FAC_CLCK_BOICxHC_ACT_D
<D>	fac_inf	A_FAC_CLCK_BAIC_ACT_D
<E>	fac_inf	A_FAC_CLCK_BICR_ACT_D
	ss_ver	NOT_USED

(4) MNSS_FACILITY_IND

	ti	NUM_0
	fac_inf	A_FAC_ENTER_PWD_REQ

(5) MNSS_FACILITY_REQ

	ti	NUM_0
	fac_inf	A_FAC_ENTER_PWD_RES
	ss_ver	NOT_USED

(6) MNSS_FACILITY_IND

	ti	NUM_1
	fac_inf	A_FAC_ENTER_PWD_REQ_2

(7) MNSS_FACILITY_REQ

	ti	NUM_1
	fac_inf	A_FAC_ENTER_PWD_RES_2
	ss_ver	NOT_USED

(8) MNSS_END_IND

	ti	NUM_0
	cs	SS_NO_ERROR
<A>	fac_inf	A_FAC_CLCK_BAOC_ACT_VF_RES
<B>	fac_inf	A_FAC_CLCK_BOIC_ACT_VF_RES
<C>	fac_inf	
	A_FAC_CLCK_BOICxHC_ACT_VF_RES	
<D>	fac_inf	A_FAC_CLCK_BAIC_ACT_VF_RES
<E>	fac_inf	A_FAC_CLCK_BICR_ACT_VF_RES

(9) MNSS_END_IND

	ti	NUM_1
	cs	SS_NO_ERROR
<A>	fac_inf	A_FAC_CLCK_BAOC_ACT_D_RES
<B>	fac_inf	A_FAC_CLCK_BOIC_ACT_D_RES
<C>	fac_inf	A_FAC_CLCK_BOICxHC_ACT_D_RES
<D>	fac_inf	A_FAC_CLCK_BAIC_ACT_D_RES
<E>	fac_inf	A_FAC_CLCK_BICR_ACT_D_RES

(10) ACI_CMD_IND

	cmd_len	LM_OK
	cmd_seq	M_OK

History: 18.05.99 ACI Initial

4.11.9 ACIATI139: Deactivate Call Barring Voice/Data/Fax

Description:

Deactivate call barring SS for voice, data and fax.

Preamble:

ACIATI001

Variants: <A>....<H>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |    (cmd: +CLCK=x,1,...)    |                            |
      *==========================>*                            |
(2)   |                            |       MNSS_BEGIN_REQ       |
      |                            *==========================>*
(3)   |                            |       MNSS_BEGIN_REQ       |
      |                            *==========================>*
(4)   |                            |     MNSS_FACILITY_IND      |
      |                            *<==========================*
(5)   |                            |     MNSS_FACILITY_REQ      |
      |                            *==========================>*
(6)   |                            |     MNSS_FACILITY_IND      |
      |                            *<==========================*
(7)   |                            |     MNSS_FACILITY_REQ      |
      |                            *==========================>*
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_PLUS_CLCK_ALLCB_DEACT
<B>	cmd_len	LC_PLUS_CLCK_ALLOUT_DEACT
<C>	cmd_len	LC_PLUS_CLCK_ALLIN_DEACT
<D>	cmd_len	LC_PLUS_CLCK_BAOC_DEACT
<E>	cmd_len	LC_PLUS_CLCK_BOIC_DEACT
<F>	cmd_len	LC_PLUS_CLCK_BOICxHC_DEACT
<G>	cmd_len	LC_PLUS_CLCK_BAIC_DEACT
<H>	cmd_len	LC_PLUS_CLCK_BICR_DEACT
<A>	cmd_seq	C_PLUS_CLCK_ALLCB_DEACT
<B>	cmd_seq	C_PLUS_CLCK_ALLOUT_DEACT
<C>	cmd_seq	C_PLUS_CLCK_ALLIN_DEACT
<D>	cmd_seq	C_PLUS_CLCK_BAOC_DEACT
<E>	cmd_seq	C_PLUS_CLCK_BOIC_DEACT
<F>	cmd_seq	C_PLUS_CLCK_BOICxHC_DEACT
<G>	cmd_seq	C_PLUS_CLCK_BAIC_DEACT
<H>	cmd_seq	C_PLUS_CLCK_BICR_DEACT
(2) MNSS_BEGIN_REQ		
	ti	NUM_0
<A>	fac_inf	A_FAC_CLCK_ALLCB_DEACT_VF

<B>	fac_inf	A_FAC_CLCK_ALLOUT_DEACT_VF
<C>	fac_inf	A_FAC_CLCK_ALLIN_DEACT_VF
<D>	fac_inf	A_FAC_CLCK_BAOC_DEACT_VF
<E>	fac_inf	A_FAC_CLCK_BOIC_DEACT_VF
<F>	fac_inf	A_FAC_CLCK_BOICxHC_DEACT_VF
<G>	fac_inf	A_FAC_CLCK_BAIC_DEACT_VF
<H>	fac_inf	A_FAC_CLCK_BICR_DEACT_VF
	ss_ver	NOT_USED
(3) MNSS_BEGIN_REQ		
	ti	NUM_1
<A>	fac_inf	A_FAC_CLCK_ALLCB_DEACT_D
<B>	fac_inf	A_FAC_CLCK_ALLOUT_DEACT_D
<C>	fac_inf	A_FAC_CLCK_ALLIN_DEACT_D
<D>	fac_inf	A_FAC_CLCK_BAOC_DEACT_D
<E>	fac_inf	A_FAC_CLCK_BOIC_DEACT_D
<F>	fac_inf	A_FAC_CLCK_BOICxHC_DEACT_D
<G>	fac_inf	A_FAC_CLCK_BAIC_DEACT_D
<H>	fac_inf	A_FAC_CLCK_BICR_DEACT_D
	ss_ver	NOT_USED
(4) MNSS_FACILITY_IND		
	ti	NUM_0
	fac_inf	A_FAC_ENTER_PWD_REQ
(5) MNSS_FACILITY_REQ		
	ti	NUM_0
	fac_inf	A_FAC_ENTER_PWD_RES
	ss_ver	NOT_USED
(6) MNSS_FACILITY_IND		
	ti	NUM_1
	fac_inf	A_FAC_ENTER_PWD_REQ_2
(7) MNSS_FACILITY_REQ		
	ti	NUM_1
	fac_inf	A_FAC_ENTER_PWD_RES_2
	ss_ver	NOT_USED

History:	18.05.99	ACI	Initial

4.11.10 ACIATI140: enable PIN 1

Description:

Enable PIN 1.

Preamble:

ACIATI001

Variants: <A>....<B>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |    (cmd: +CLCK="SC",...)   |                            |
      *==========================>*                            |
(2)   |                            |     SIM_ENABLE_PIN_REQ     |
      |                            *==========================> *
(3)   |                            |     SIM_ENABLE_PIN_CNF     |
      |                            *<========================== *
(4)   |         ACI_CMD_IND        |                            |
      |        (msg: result)       |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CLCK_PIN1_ACT
	cmd_seq	C_PLUS_CLCK_PIN1_ACT
(2) SIM_ENABLE_PIN_REQ		
	source	SRC_MMI
	pin	F_CUR_PIN
(3) SIM_ENABLE_PIN_CNF		
<A>	error	SIM_NO_ERROR
<B>	error	SIM_INVALID_PIN_1
	pin_cnt	NUM_3
	puk_cnt	NUM_10
	pin2_cnt	NUM_3
	puk2_cnt	NUM_10
(4) ACI_CMD_IND		
<A>	cmd_len	LM_OK
<B>	cmd_len	LM_ERROR
<A>	cmd_seq	M_OK
<B>	cmd_seq	M_ERROR

History: 03.06.99 ACI Initial

4.11.11 ACIATI141: disable PIN 1

Description:

Disable PIN 1.

Preamble:

ACIATI001

Variants: <A>....<B>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |    (cmd: +CLCK="SC",...)   |                            |
      *==========================>*                            |
(2)   |                            |    SIM_DISABLE_PIN_REQ     |
      |                            *==========================> *
(3)   |                            |    SIM_DISABLE_PIN_CNF     |
      |                            *<========================== *
(4)   |         ACI_CMD_IND        |                            |
      |        (msg: result)       |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CLCK_PIN1_DEACT
	cmd_seq	C_PLUS_CLCK_PIN1_DEACT
(2) SIM_DISABLE_PIN_REQ		
	source	SRC_MMI
	pin	F_CUR_PIN
(3) SIM_DISABLE_PIN_CNF		
<A>	error	SIM_NO_ERROR
<B>	error	SIM_INVALID_PIN_1
	pin_cnt	NUM_3
	puk_cnt	NUM_10
	pin2_cnt	NUM_3
	puk2_cnt	NUM_10
(4) ACI_CMD_IND		
<A>	cmd_len	LM_OK
<B>	cmd_len	LM_ERROR
<A>	cmd_seq	M_OK
<B>	cmd_seq	M_ERROR

History: 03.06.99 ACI Initial

4.11.12 ACIATI142: Query Enabled PIN 1

Description:

Query enabled PIN 1.

Preamble:

ACIATI140A

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |     (cmd: +CLCK="SC",2)    |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |       (msg: +CLCK: 1)      |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CLCK_SC_QUERY
	cmd_seq	C_PLUS_CLCK_SC_QUERY
(2) ACI_CMD_IND		
	cmd_len	LM_PLUS_CLCK_FD_ENA
	cmd_seq	M_PLUS_CLCK_FD_ENA
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 15.09.99 ACI Initial

4.11.13 ACIATI143: Query Disabled PIN 1

Description:

Query disabled PIN 1.

Preamble:

ACIATI141A

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |     (cmd: +CLCK="SC",2)    |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |       (msg: +CLCK: 0)      |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value

(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CLCK_SC_QUERY
	cmd_seq	C_PLUS_CLCK_SC_QUERY
(2) ACI_CMD_IND		
	cmd_len	LM_PLUS_CLCK_FD_DIS
	cmd_seq	M_PLUS_CLCK_FD_DIS
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 15.09.99 ACI Initial

4.11.14 ACIATI144: Query Unknown PIN 1 Status

Description:

Query unknown PIN 1 status.

Preamble:

ACIATI141B

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CMEE=2)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |    (cmd: +CLCK="SC",2)     |                            |
      *==========================>*                            |
(4)   |         ACI_CMD_IND        |                            |
      |      (msg: +CME:...)       |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CMEE_VERB
	cmd_seq	C_PLUS_CMEE_VERB
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CLCK_SC_QUERY
	cmd_seq	C_PLUS_CLCK_SC_QUERY

(4) ACI_CMD_IND			
		cmd_len	LM_CME_ERR_UNKN
		cmd_seq	M_CME_ERR_UNKN
History:	15.09.99	ACI	Initial

4.12 SS Change Password "+CPWD" (ACIATI150-ACIATI160)

4.12.1 ACIATI150: Change Password, successful attempt

Description:

Change the password for all call barring services. Command is successful

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |   (cmd: +CPWD="AB",x,y)    |                            |
      *==========================>*                            |
(2)   |                            |       MNSS_BEGIN_REQ       |
      |                            *==========================>*
(3)   |                            |     MNSS_FACILITY_IND      |
      |                            *<==========================*
(4)   |                            |     MNSS_FACILITY_REQ      |
      |                            *==========================>*
(5)   |                            |     MNSS_FACILITY_IND      |
      |                            *<==========================*
(6)   |                            |     MNSS_FACILITY_REQ      |
      |                            *==========================>*
(7)   |                            |     MNSS_FACILITY_IND      |
      |                            *<==========================*
(8)   |                            |     MNSS_FACILITY_REQ      |
      |                            *==========================>*
(9)   |                            |       MNSS_END_IND         |
      |                            *<==========================*
(10)  |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPWD_CBALL
	cmd_seq	C_PLUS_CPWD_CBALL
(2) MNSS_BEGIN_REQ		
	ti	NUM_0
	fac_inf	A_FAC_CPWD_ALLCB_REG
	ss_ver	NOT_USED

(3) MNSS_FACILITY_IND

ti	NUM_0
fac_inf	A_FAC_ENTER_PWD_REQ

(4) MNSS_FACILITY_REQ

ti	NUM_0
fac_inf	A_FAC_ENTER_PWD_RES
ss_ver	NOT_USED

(5) MNSS_FACILITY_IND

ti	NUM_0
fac_inf	A_FAC_NEW_PWD_REQ

(6) MNSS_FACILITY_REQ

ti	NUM_0
fac_inf	A_FAC_NEW_PWD_RES
ss_ver	NOT_USED

(7) MNSS_FACILITY_IND

ti	NUM_0
fac_inf	A_FAC_NEWAGN_PWD_REQ

(8) MNSS_FACILITY_REQ

ti	NUM_0
fac_inf	A_FAC_NEWAGN_PWD_RES
ss_ver	NOT_USED

(9) MNSS_END_IND

ti	NUM_0
cs	SS_NO_ERROR
fac_inf	A_FAC_CPWD_ALLCB_RES

(10) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History: 25.05.99 ACI Initial

4.12.2 ACIATI151: Change Password, subscription violation

Description:

Change the password for all call barring services. Failure due to subscription violation.

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |    (cmd: +CPWD="AB",x,y)   |                            |
      *==========================>*                            |
(2)   |                            |       MNSS_BEGIN_REQ       |
      |                            *==========================>*
(3)   |                            |        MNSS_END_IND        |
      |                            *<==========================*
(4)   |         ACI_CMD_IND        |                            |
      |        (msg: ERROR)        |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPWD_CBALL
	cmd_seq	C_PLUS_CPWD_CBALL
(2) MNSS_BEGIN_REQ		
	ti	NUM_0
	fac_inf	A_FAC_CPWD_ALLCB_REG
	ss_ver	NOT_USED
(3) MNSS_END_IND		
	ti	NUM_0
	cs	SS_NO_ERROR
	fac_inf	A_FAC_CPWD_ALLCB_ERR_1
(4) ACI_CMD_IND		
	cmd_len	LM_ERROR
	cmd_seq	M_ERROR

History: 25.05.99 ACI Initial

4.12.3 ACIATI152: Change Password, negative password check

Description:

Change the password for all call barring services. Password check fails.

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |    (cmd: +CPWD="AB",x,y)   |                            |
      *==========================>*                            |
(2)   |                            |       MNSS_BEGIN_REQ       |
      |                            *==========================>*
(3)   |                            |     MNSS_FACILITY_IND      |
      |                            *<==========================*
(4)   |                            |     MNSS_FACILITY_REQ      |
      |                            *==========================>*
(5)   |                            |       MNSS_END_IND         |
      |                            *<==========================*
(6)   |         ACI_CMD_IND        |                            |
      |        (msg: ERROR)        |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPWD_CBALL
	cmd_seq	C_PLUS_CPWD_CBALL

(2) MNSS_BEGIN_REQ

ti	NUM_0
fac_inf	A_FAC_CPWD_ALLCB_REG
ss_ver	NOT_USED

(3) MNSS_FACILITY_IND

ti	NUM_0
fac_inf	A_FAC_ENTER_PWD_REQ

(4) MNSS_FACILITY_REQ

ti	NUM_0
fac_inf	A_FAC_ENTER_PWD_RES
ss_ver	NOT_USED

(5) MNSS_END_IND

ti	NUM_0
cs	SS_NO_ERROR
fac_inf	A_FAC_CPWD_ALLCB_ERR_2

(6) ACI_CMD_IND

cmd_len	LM_ERROR
cmd_seq	M_ERROR

History:	25.05.99	ACI	Initial

4.12.4 ACIATI153: Change Password, new password mismatch

Description:

Change the password for all call barring services. failed due to new password mismatch.

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |    (cmd: +CPWD="AB",x,y)   |                            |
      *==========================>*                            |
(2)   |                            |       MNSS_BEGIN_REQ       |
      |                            *==========================> *
(3)   |                            |     MNSS_FACILITY_IND      |
      |                            *<========================== *
(4)   |                            |     MNSS_FACILITY_REQ      |
      |                            *==========================> *
(5)   |                            |     MNSS_FACILITY_IND      |
      |                            *<========================== *
(6)   |                            |     MNSS_FACILITY_REQ      |
      |                            *==========================> *
(7)   |                            |     MNSS_FACILITY_IND      |
      |                            *<========================== *
(8)   |                            |     MNSS_FACILITY_REQ      |
      |                            *==========================> *
(9)   |                            |       MNSS_END_IND         |
      |                            *<========================== *
(10)  |         ACI_CMD_IND        |                            |
      |        (msg: ERROR)        |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPWD_CBALL
	cmd_seq	C_PLUS_CPWD_CBALL
(2) MNSS_BEGIN_REQ		
	ti	NUM_0
	fac_inf	A_FAC_CPWD_ALLCB_REG
	ss_ver	NOT_USED
(3) MNSS_FACILITY_IND		
	ti	NUM_0
	fac_inf	A_FAC_ENTER_PWD_REQ
(4) MNSS_FACILITY_REQ		
	ti	NUM_0
	fac_inf	A_FAC_ENTER_PWD_RES
	ss_ver	NOT_USED
(5) MNSS_FACILITY_IND		
	ti	NUM_0
	fac_inf	A_FAC_NEW_PWD_REQ
(6) MNSS_FACILITY_REQ		
	ti	NUM_0
	fac_inf	A_FAC_NEW_PWD_RES
	ss_ver	NOT_USED
(7) MNSS_FACILITY_IND		
	ti	NUM_0
	fac_inf	A_FAC_NEWAGN_PWD_REQ

(8) MNSS_FACILITY_REQ		
	ti	NUM_0
	fac_inf	A_FAC_NEWAGN_PWD_RES
	ss_ver	NOT_USED
(9) MNSS_END_IND		
	ti	NUM_0
	cs	SS_NO_ERROR
	fac_inf	A_FAC_CPWD_ALLCB_ERR_3
(10) ACI_CMD_IND		
	cmd_len	LM_ERROR
	cmd_seq	M_ERROR

History: 25.05.99 ACI Initial

4.12.5 ACIATI154: Change PIN 1

Description:

Change PIN 1.

Preamble:

ACIATI001

Variants: <A>....<B>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |    (cmd: +CPWD="SC",...)   |                            |
      *==========================>*                            |
(2)   |                            |     SIM_CHANGE_PIN_REQ     |
      |                            *==========================>*
(3)   |                            |     SIM_CHANGE_PIN_CNF     |
      |                            *<==========================*
(4)   |         ACI_CMD_IND        |                            |
      |        (msg: result)       |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPWD_PIN1
	cmd_seq	C_PLUS_CPWD_PIN1
(2) SIM_CHANGE_PIN_REQ		
	source	SRC_MMI
	old_pin	F_CUR_PIN
	new_pin	F_NEW_PIN
	pin_id	PHASE_2_PIN_1
(3) SIM_CHANGE_PIN_CNF		
<A>	error	SIM_NO_ERROR
<B>	error	SIM_INVALID_PIN_1
	pin_id	PHASE_2_PIN_1
	pin_cnt	NUM_3

	puk_cnt	NUM_10
	pin2_cnt	NUM_3
	puk2_cnt	NUM_10
(4) ACI_CMD_IND		
<A>	cmd_len	LM_OK
<B>	cmd_len	LM_ERROR
<A>	cmd_seq	M_OK
<B>	cmd_seq	M_ERROR

History: 03.06.99 ACI Initial

4.12.6 ACIATI155: Change PIN 2

Description:

Change PIN 2.

Preamble:

ACIATI001

Variants: <A>....<B>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |    (cmd: +CPWD="P2",...)   |                            |
      *==========================>*                            |
(2)   |                            |     SIM_CHANGE_PIN_REQ     |
      |                            *==========================>*
(3)   |                            |     SIM_CHANGE_PIN_CNF     |
      |                            *<==========================*
(4)   |         ACI_CMD_IND        |                            |
      |        (msg: result)       |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPWD_PIN2
	cmd_seq	C_PLUS_CPWD_PIN2
(2) SIM_CHANGE_PIN_REQ		
	source	SRC_MMI
	old_pin	F_CUR_PIN
	new_pin	F_NEW_PIN
	pin_id	PHASE_2_PIN_2
(3) SIM_CHANGE_PIN_CNF		
<A>	error	SIM_NO_ERROR
<B>	error	SIM_INVALID_PIN_2
	pin_id	PHASE_2_PIN_2
	pin_cnt	NUM_3
	puk_cnt	NUM_10

	pin2_cnt	NUM_3
	puk2_cnt	NUM_10
(4) ACI_CMD_IND		
<A>	cmd_len	LM_OK
<B>	cmd_len	LM_ERROR
<A>	cmd_seq	M_OK
<B>	cmd_seq	M_ERROR

History: 03.06.99 ACI Initial

4.13 Call Forwarding "+CCFC" (ACIATI170-ACIATI185)

4.13.1 ACIATI170: Interrogate Call Forwarding status

Description:

interrogate network for CF status.

Preamble:

ACIATI001

Variants: <A>....<D>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CCFC=x,2)      |                            |
      *==========================>*                            |
(2)   |                            |       MNSS_BEGIN_REQ       |
      |                            *==========================>*
(3)   |                            |       MNSS_BEGIN_REQ       |
      |                            *==========================>*
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_PLUS_CCFC_CFU_QUERY
<B>	cmd_len	LC_PLUS_CCFC_CFB_QUERY
<C>	cmd_len	LC_PLUS_CCFC_CFNRY_QUERY
<D>	cmd_len	LC_PLUS_CCFC_CFNRC_QUERY
<A>	cmd_seq	C_PLUS_CCFC_CFU_QUERY
<B>	cmd_seq	C_PLUS_CCFC_CFB_QUERY
<C>	cmd_seq	C_PLUS_CCFC_CFNRY_QUERY
<D>	cmd_seq	C_PLUS_CCFC_CFNRC_QUERY
(2) MNSS_BEGIN_REQ		
	ti	NUM_0
<A>	fac_inf	A_FAC_CCFC_CFU_IRGT_VF
<B>	fac_inf	A_FAC_CCFC_CFB_IRGT_VF
<C>	fac_inf	A_FAC_CCFC_CFNRY_IRGT_VF
<D>	fac_inf	A_FAC_CCFC_CFNRC_IRGT_VF
	ss_ver	NOT_USED

(3) MNSS_BEGIN_REQ

	ti	NUM_1
<A>	fac_inf	A_FAC_CCFC_CFU_IRGT_D
<B>	fac_inf	A_FAC_CCFC_CFB_IRGT_D
<C>	fac_inf	A_FAC_CCFC_CFNRY_IRGT_D
<D>	fac_inf	A_FAC_CCFC_CFNRC_IRGT_D
	ss_ver	NOT_USED

History: 18.05.99 ACI Initial

4.13.2 ACIATI171: Register Call Forwarding Voice/Data/Fax

Description:

Register call forwarding SS for voice, data and fax.

Preamble:

ACIATI001

Variants: <A>....<F>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: +CCFC=x,3)      |                            |
      *==========================>*                            |
(2)   |                            |       MNSS_BEGIN_REQ       |
      |                            *==========================>*
(3)   |                            |       MNSS_BEGIN_REQ       |
      |                            *==========================>*
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_PLUS_CCFC_CFU_REG
<B>	cmd_len	LC_PLUS_CCFC_CFB_REG
<C>	cmd_len	LC_PLUS_CCFC_CFNRY_REG
<D>	cmd_len	LC_PLUS_CCFC_CFNRC_REG
<E>	cmd_len	LC_PLUS_CCFC_ALLCF_REG
<F>	cmd_len	LC_PLUS_CCFC_ALLCFC_REG
<A>	cmd_seq	C_PLUS_CCFC_CFU_REG
<B>	cmd_seq	C_PLUS_CCFC_CFB_REG
<C>	cmd_seq	C_PLUS_CCFC_CFNRY_REG
<D>	cmd_seq	C_PLUS_CCFC_CFNRC_REG
<E>	cmd_seq	C_PLUS_CCFC_ALLCF_REG
<F>	cmd_seq	C_PLUS_CCFC_ALLCFC_REG
(2) MNSS_BEGIN_REQ		
	ti	NUM_0
<A>	fac_inf	A_FAC_CCFC_CFU_REG_VF
<B>	fac_inf	A_FAC_CCFC_CFB_REG_VF
<C>	fac_inf	A_FAC_CCFC_CFNRY_REG_VF
<D>	fac_inf	A_FAC_CCFC_CFNRC_REG_VF
<E>	fac_inf	A_FAC_CCFC_ALLCF_REG_VF

<F>	fac_inf	A_FAC_CCFC_ALLCFC_REG_VF
	ss_ver	NOT_USED
(3) MNSS_BEGIN_REQ		
	ti	NUM_1
<A>	fac_inf	A_FAC_CCFC_CFU_REG_D
<B>	fac_inf	A_FAC_CCFC_CFB_REG_D
<C>	fac_inf	A_FAC_CCFC_CFNRY_REG_D
<D>	fac_inf	A_FAC_CCFC_CFNRC_REG_D
<E>	fac_inf	A_FAC_CCFC_ALLCF_REG_D
<F>	fac_inf	A_FAC_CCFC_ALLCFC_REG_D
	ss_ver	NOT_USED

History: 18.05.99 ACI Initial

4.13.3 ACIATI172: Erase Call Forwarding Voice/Data/Fax

Description:

Erase call forwarding SS for voice, data and fax.

Preamble:

ACIATI001

Variants: <A>....<F>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |     (cmd: +CCFC=x,4)       |                            |
      *==========================>*                            |
(2)   |                            |      MNSS_BEGIN_REQ        |
      |                            *==========================>*
(3)   |                            |      MNSS_BEGIN_REQ        |
      |                            *==========================>*
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_PLUS_CCFC_CFU_ERS
<B>	cmd_len	LC_PLUS_CCFC_CFB_ERS
<C>	cmd_len	LC_PLUS_CCFC_CFNRY_ERS
<D>	cmd_len	LC_PLUS_CCFC_CFNRC_ERS
<E>	cmd_len	LC_PLUS_CCFC_ALLCF_ERS
<F>	cmd_len	LC_PLUS_CCFC_ALLCFC_ERS
<A>	cmd_seq	C_PLUS_CCFC_CFU_ERS
<B>	cmd_seq	C_PLUS_CCFC_CFB_ERS
<C>	cmd_seq	C_PLUS_CCFC_CFNRY_ERS
<D>	cmd_seq	C_PLUS_CCFC_CFNRC_ERS
<E>	cmd_seq	C_PLUS_CCFC_ALLCF_ERS
<F>	cmd_seq	C_PLUS_CCFC_ALLCFC_ERS
(2) MNSS_BEGIN_REQ		
	ti	NUM_0
<A>	fac_inf	A_FAC_CCFC_CFU_ERS_VF

<B>	fac_inf	A_FAC_CCFC_CFB_ERS_VF
<C>	fac_inf	A_FAC_CCFC_CFNRY_ERS_VF
<D>	fac_inf	A_FAC_CCFC_CFNRC_ERS_VF
<E>	fac_inf	A_FAC_CCFC_ALLCF_ERS_VF
<F>	fac_inf	A_FAC_CCFC_ALLCFC_ERS_VF
	ss_ver	NOT_USED
(3) MNSS_BEGIN_REQ		
	ti	NUM_1
<A>	fac_inf	A_FAC_CCFC_CFU_ERS_D
<B>	fac_inf	A_FAC_CCFC_CFB_ERS_D
<C>	fac_inf	A_FAC_CCFC_CFNRY_ERS_D
<D>	fac_inf	A_FAC_CCFC_CFNRC_ERS_D
<E>	fac_inf	A_FAC_CCFC_ALLCF_ERS_D
<F>	fac_inf	A_FAC_CCFC_ALLCFC_ERS_D
	ss_ver	NOT_USED

History: 18.05.99 ACI Initial

4.13.4 ACIATI173: Activate Call Forwarding Voice/Data/Fax

Description:

Activate call forwarding SS for voice, data and fax.

Preamble:

ACIATI001

Variants: <A>....<F>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CCFC=x,1)      |                            |
      *==========================>*                            |
(2)   |                            |       MNSS_BEGIN_REQ       |
      |                            *==========================>*
(3)   |                            |       MNSS_BEGIN_REQ       |
      |                            *==========================>*
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_PLUS_CCFC_CFU_ACT
<B>	cmd_len	LC_PLUS_CCFC_CFB_ACT
<C>	cmd_len	LC_PLUS_CCFC_CFNRY_ACT
<D>	cmd_len	LC_PLUS_CCFC_CFNRC_ACT
<E>	cmd_len	LC_PLUS_CCFC_ALLCF_ACT
<F>	cmd_len	LC_PLUS_CCFC_ALLCFC_ACT
<A>	cmd_seq	C_PLUS_CCFC_CFU_ACT
<B>	cmd_seq	C_PLUS_CCFC_CFB_ACT
<C>	cmd_seq	C_PLUS_CCFC_CFNRY_ACT
<D>	cmd_seq	C_PLUS_CCFC_CFNRC_ACT

<E>	cmd_seq	C_PLUS_CCFC_ALLCF_ACT
<F>	cmd_seq	C_PLUS_CCFC_ALLCFC_ACT
(2) MNSS_BEGIN_REQ		
	ti	NUM_0
<A>	fac_inf	A_FAC_CCFC_CFU_ACT_VF
<B>	fac_inf	A_FAC_CCFC_CFB_ACT_VF
<C>	fac_inf	A_FAC_CCFC_CFNRY_ACT_VF
<D>	fac_inf	A_FAC_CCFC_CFNRC_ACT_VF
<E>	fac_inf	A_FAC_CCFC_ALLCF_ACT_VF
<F>	fac_inf	A_FAC_CCFC_ALLCFC_ACT_VF
	ss_ver	NOT_USED
(3) MNSS_BEGIN_REQ		
	ti	NUM_1
<A>	fac_inf	A_FAC_CCFC_CFU_ACT_D
<B>	fac_inf	A_FAC_CCFC_CFB_ACT_D
<C>	fac_inf	A_FAC_CCFC_CFNRY_ACT_D
<D>	fac_inf	A_FAC_CCFC_CFNRC_ACT_D
<E>	fac_inf	A_FAC_CCFC_ALLCF_ACT_D
<F>	fac_inf	A_FAC_CCFC_ALLCFC_ACT_D
	ss_ver	NOT_USED

History: 18.05.99 ACI Initial

4.13.5 ACIATI174: Deactivate Call Forwarding Voice/Data/Fax

Description:

Deactivate call forwarding SS for voice, data and fax.

Preamble:

ACIATI001

Variants: <A>....<F>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CCFC=x,0)      |                            |
      *==========================>*                            |
(2)   |                            |       MNSS_BEGIN_REQ       |
      |                            *==========================>*
(3)   |                            |       MNSS_BEGIN_REQ       |
      |                            *==========================>*
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_PLUS_CCFC_CFU_DEACT
<B>	cmd_len	LC_PLUS_CCFC_CFB_DEACT
<C>	cmd_len	LC_PLUS_CCFC_CFNRY_DEACT
<D>	cmd_len	LC_PLUS_CCFC_CFNRC_DEACT
<E>	cmd_len	LC_PLUS_CCFC_ALLCF_DEACT
<F>	cmd_len	LC_PLUS_CCFC_ALLCFC_DEACT

<A>	cmd_seq	C_PLUS_CCFC_CFU_DEACT
<B>	cmd_seq	C_PLUS_CCFC_CFB_DEACT
<C>	cmd_seq	C_PLUS_CCFC_CFNRY_DEACT
<D>	cmd_seq	C_PLUS_CCFC_CFNRC_DEACT
<E>	cmd_seq	C_PLUS_CCFC_ALLCF_DEACT
<F>	cmd_seq	C_PLUS_CCFC_ALLCFC_DEACT
(2) MNSS_BEGIN_REQ		
	ti	NUM_0
<A>	fac_inf	A_FAC_CCFC_CFU_DEACT_VF
<B>	fac_inf	A_FAC_CCFC_CFB_DEACT_VF
<C>	fac_inf	A_FAC_CCFC_CFNRY_DEACT_VF
<D>	fac_inf	A_FAC_CCFC_CFNRC_DEACT_VF
<E>	fac_inf	A_FAC_CCFC_ALLCF_DEACT_VF
<F>	fac_inf	A_FAC_CCFC_ALLCFC_DEACT_VF
	ss_ver	NOT_USED
(3) MNSS_BEGIN_REQ		
	ti	NUM_1
<A>	fac_inf	A_FAC_CCFC_CFU_DEACT_D
<B>	fac_inf	A_FAC_CCFC_CFB_DEACT_D
<C>	fac_inf	A_FAC_CCFC_CFNRY_DEACT_D
<D>	fac_inf	A_FAC_CCFC_CFNRC_DEACT_D
<E>	fac_inf	A_FAC_CCFC_ALLCF_DEACT_D
<F>	fac_inf	A_FAC_CCFC_ALLCFC_DEACT_D
	ss_ver	NOT_USED

History: 18.05.99 ACI Initial

4.13.6 ACIATI175: Successful interrogation of Call Forwarding CFU

Description:

network returns current status of call forwarding SS

Preamble:

ACIATI170A

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |                            |        MNSS_END_IND        |
      |                            *<========================== *
(2)   |                            |        MNSS_END_IND        |
      |                            *<========================== *
(3)   |         ACI_CMD_IND        |                            |
      |      (msg: +CCFC:n,m)      |                            |
      *<========================== *                            |
(4)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<========================== *                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) MNSS_END_IND		
	ti	NUM_0

	cs	SS_NO_ERROR
	fac_inf	A_FAC_CCFC_CFU_IRGT_VF_RES
(2) MNSS_END_IND		
	ti	NUM_1
	cs	SS_NO_ERROR
	fac_inf	A_FAC_CCFC_CFU_IRGT_D_RES
(3) ACI_CMD_IND		
	cmd_len	LM_PLUS_CCFC_CFNRC_D
	cmd_seq	M_PLUS_CCFC_CFNRC_D
(4) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 10.08.98 ACI Initial

4.13.7 ACIATI176: Successful interrogation of Call Forwarding CFB

Description:

network returns current status of call forwarding SS

Preamble:

ACIATI170B

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |                            |        MNSS_END_IND        |
      |                            *<========================== *
(2)   |                            |        MNSS_END_IND        |
      |                            *<========================== *
(3)   |         ACI_CMD_IND        |                            |
      |      (msg: +CCFC:n,m)      |                            |
      *<========================== *                            |
(4)   |         ACI_CMD_IND        |                            |
      |      (msg: +CCFC:n,m)      |                            |
      *<========================== *                            |
(5)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<========================== *                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) MNSS_END_IND		
	ti	NUM_0
	cs	SS_NO_ERROR
	fac_inf	A_FAC_CCFC_CFB_IRGT_VF_RES
(2) MNSS_END_IND		
	ti	NUM_1
	cs	SS_NO_ERROR
	fac_inf	A_FAC_CCFC_CFB_IRGT_D_RES

(3) ACI_CMD_IND

cmd_len	LM_PLUS_CCFC_CFB_V
cmd_seq	M_PLUS_CCFC_CFB_V

(4) ACI_CMD_IND

cmd_len	LM_PLUS_CCFC_CFB_D
cmd_seq	M_PLUS_CCFC_CFB_D

(5) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History: 10.08.98 ACI Initial

4.13.8 ACIATI177: Successful interrogation of Call Forwarding CFNRY

Description:

network returns current status of call forwarding SS

Preamble:

ACIATI170C

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |                            |        MNSS_END_IND        |
      |                            *<========================== *
(2)   |                            |        MNSS_END_IND        |
      |                            *<========================== *
(3)   |         ACI_CMD_IND        |                            |
      |      (msg: +CCFC:n,m)      |                            |
      *<========================== *                            |
(4)   |         ACI_CMD_IND        |                            |
      |      (msg: +CCFC:n,m)      |                            |
      *<========================== *                            |
(5)   |         ACI_CMD_IND        |                            |
      |         (msg: OK)          |                            |
      *<========================== *                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) MNSS_END_IND		
	ti	NUM_0
	cs	SS_NO_ERROR
	fac_inf	A_FAC_CCFC_CFNRY_IRGT_VF_RES
(2) MNSS_END_IND		
	ti	NUM_1
	cs	SS_NO_ERROR
	fac_inf	A_FAC_CCFC_CFNRY_IRGT_D_RES
(3) ACI_CMD_IND		
	cmd_len	LM_PLUS_CCFC_CFNRY_V
	cmd_seq	M_PLUS_CCFC_CFNRY_V

(4) ACI_CMD_IND		
	cmd_len	LM_PLUS_CCFC_CFNRY_F
	cmd_seq	M_PLUS_CCFC_CFNRY_F
(5) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 10.08.98 ACI Initial

4.13.9 ACIATI178: Successful interrogation of Call Forwarding

Description:

network returns current status of call forwarding SS

Preamble:

ACIATI170D

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |                            |        MNSS_END_IND        |
      |                            *<========================== *
(2)   |                            |        MNSS_END_IND        |
      |                            *<========================== *
(3)   |         ACI_CMD_IND        |                            |
      |      (msg: +CCFC:n,m)      |                            |
      *<========================== *                            |
(4)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<========================== *                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) MNSS_END_IND		
	ti	NUM_0
	cs	SS_NO_ERROR
	fac_inf	
	A_FAC_CCFC_CFNRC_IRGT_VF_RES	
(2) MNSS_END_IND		
	ti	NUM_1
	cs	SS_NO_ERROR
	fac_inf	A_FAC_CCFC_CFNRC_IRGT_D_RES
(3) ACI_CMD_IND		
	cmd_len	LM_PLUS_CCFC_CFNRC_VF
	cmd_seq	M_PLUS_CCFC_CFNRC_VF
(4) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 10.08.98 ACI Initial

4.14 Call Waiting "+CCWA" (ACIATI185-ACIATI190)

4.14.1 ACIATI185: Interrogate Call waiting status

Description:

interrogate network for CW status.

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CCWA=,2)      |                            |
      *==========================>*                            |
(2)   |                            |       MNSS_BEGIN_REQ       |
      |                            *==========================> *
(3)   |                            |       MNSS_BEGIN_REQ       |
      |                            *==========================> *
(4)   |                            |        MNSS_END_IND        |
      |                            *<========================== *
(5)   |                            |        MNSS_END_IND        |
      |                            *<========================== *
(6)   |         ACI_CMD_IND        |                            |
      |      (msg: +CCWA: n,m)     |                            |
      *<==========================*                            |
(7)   |         ACI_CMD_IND        |                            |
      |      (msg: +CCWA: n,m)     |                            |
      *<==========================*                            |
(8)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CCWA_QUERY
	cmd_seq	C_PLUS_CCWA_QUERY
(2) MNSS_BEGIN_REQ		
	ti	NUM_0
	fac_inf	A_FAC_CCWA_IRGT_VF
	ss_ver	NOT_USED
(3) MNSS_BEGIN_REQ		
	ti	NUM_1
	fac_inf	A_FAC_CCWA_IRGT_D
	ss_ver	NOT_USED
(4) MNSS_END_IND		
	ti	NUM_0

	cs	SS_NO_ERROR
	fac_inf	A_FAC_CCWA_IRGT_VF_RES
(5) MNSS_END_IND		
	ti	NUM_1
	cs	SS_NO_ERROR
	fac_inf	A_FAC_CCWA_IRGT_D_RES
(6) ACI_CMD_IND		
	cmd_len	LM_PLUS_CCWA_VF
	cmd_seq	M_PLUS_CCWA_VF
(7) ACI_CMD_IND		
	cmd_len	LM_PLUS_CCWA_D
	cmd_seq	M_PLUS_CCWA_D
(8) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 10.08.98 ACI Initial

4.14.2 ACIATI186: Activate Call waiting status

Description:

activate CW supplementary service.

Preamble:

ACIATI001

Variants: <A>....<B>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CCWA=,1,x)     |                            |
      *==========================>*                            |
(2)   |                            |       MNSS_BEGIN_REQ       |
      |                            *==========================>*
(3)   |                            |        MNSS_END_IND        |
      |                            *<==========================*
(4)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_PLUS_CCWA_ACT_V
<B>	cmd_len	LC_PLUS_CCWA_ACT_D
<A>	cmd_seq	C_PLUS_CCWA_ACT_V
<B>	cmd_seq	C_PLUS_CCWA_ACT_D
(2) MNSS_BEGIN_REQ		
	ti	NUM_0
<A>	fac_inf	A_FAC_CCWA_ACT_V

<B>	fac_inf	A_FAC_CCWA_ACT_D
	ss_ver	NOT_USED
(3) MNSS_END_IND		
	ti	NUM_0
	cs	SS_NO_ERROR
<A>	fac_inf	A_FAC_CCWA_ACT_V_RES
<B>	fac_inf	A_FAC_CCWA_ACT_D_RES
(4) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 10.08.98 ACI Initial

4.15 Unstructured SS "+CUSD" (ACIATI191-ACIATI200)

4.15.1 ACIATI191: Unstructured SS notify

Description:

Network initiated unstructured SS notification.

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CUSD=1)       |                            |
      * ========================== *                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      * <========================== *                            |
(3)   |                            |       MNSS_BEGIN_IND       |
      |                            * <========================== *
(4)   |         ACI_CMD_IND        |                            |
      |     (msg: +CUSD: 0,...)    |                            |
      * <========================== *                            |
(5)   |                            |     MNSS_FACILITY_REQ      |
      |                            * ========================== *
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CUSD_ON
	cmd_seq	C_PLUS_CUSD_ON
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) MNSS_BEGIN_IND		
	ti	NUM_8
	fac_inf	A_FAC_USSD_NTFY

(4) ACI_CMD_IND

cmd_len	LM_PLUS_CUSD_NTFY
cmd_seq	M_PLUS_CUSD_NTFY

(5) MNSS_FACILITY_REQ

ti	NUM_8
fac_inf	A_FAC_USSD_NTFY_RES
ss_ver	NOT_USED

History: 25.05.99 ACI Initial

4.15.2 ACIATI192: Unstructured SS request

Description:

Network initiated unstructured SS request.

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CUSD=1)       |                            |
      *===========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<===========================*                            |
(3)   |                            |       MNSS_BEGIN_IND       |
      |                            *<===========================*
(4)   |         ACI_CMD_IND        |                            |
      |     (msg: +CUSD: 1,...)    |                            |
      *<===========================*                            |
(5)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CUSD=,...)     |                            |
      *===========================>*                            |
(6)   |                            |     MNSS_FACILITY_REQ      |
      |                            *===========================>*
(7)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<===========================*                            |
(8)   |                            |     MNSS_FACILITY_IND      |
      |                            *<===========================*
(9)   |         ACI_CMD_IND        |                            |
      |     (msg: +CUSD: 1,...)    |                            |
      *<===========================*                            |
(10)  |         ACI_CMD_REQ        |                            |
      |      (cmd: +CUSD=,...)     |                            |
      *===========================>*                            |
(11)  |                            |     MNSS_FACILITY_REQ      |
      |                            *===========================>*
(12)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<===========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CUSD_ON
	cmd_seq	C_PLUS_CUSD_ON
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) MNSS_BEGIN_IND		
	ti	NUM_8
	fac_inf	A_FAC_USSD_REQ
(4) ACI_CMD_IND		
	cmd_len	LM_PLUS_CUSD_REQ
	cmd_seq	M_PLUS_CUSD_REQ
(5) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CUSD_SEND
	cmd_seq	C_PLUS_CUSD_SEND
(6) MNSS_FACILITY_REQ		
	ti	NUM_8
	fac_inf	A_FAC_USSD_REQ_RES
	ss_ver	NOT_USED
(7) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(8) MNSS_FACILITY_IND		
	ti	NUM_8
	fac_inf	A_FAC_USSD_REQ
(9) ACI_CMD_IND		
	cmd_len	LM_PLUS_CUSD_REQ
	cmd_seq	M_PLUS_CUSD_REQ
(10) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CUSD_SEND
	cmd_seq	C_PLUS_CUSD_SEND
(11) MNSS_FACILITY_REQ		
	ti	NUM_8
	fac_inf	A_FAC_USSD_REQ_RES
	ss_ver	NOT_USED
(12) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History:	25.05.99	ACI	Initial

4.15.3 ACIATI193: Process Unstructured SS request, no network request involved

Description:

Mobile initiated process unstructured SS request. The network does not request USSD during transaction.

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CUSD=1)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CUSD=,...)     |                            |
      *==========================>*                            |
(4)   |                            |       MNSS_BEGIN_REQ       |
      |                            *==========================>*
(5)   |                            |        MNSS_END_IND        |
      |                            *<==========================*
(6)   |         ACI_CMD_IND        |                            |
      |     (msg: +CUSD: 0,...)    |                            |
      *<==========================*                            |
(7)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CUSD_ON
	cmd_seq	C_PLUS_CUSD_ON
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CUSD_SEND
	cmd_seq	C_PLUS_CUSD_SEND
(4) MNSS_BEGIN_REQ		
	ti	NUM_0
	fac_inf	A_FAC_USSD_PROC
	ss_ver	NOT_USED
(5) MNSS_END_IND		
	ti	NUM_0

		cs	SS_NO_ERROR
		fac_inf	A_FAC_USSD_PROC_RES
(6) ACI_CMD_IND			
		cmd_len	LM_PLUS_CUSD_PROC_RES
		cmd_seq	M_PLUS_CUSD_PROC_RES
(7) ACI_CMD_IND			
		cmd_len	LM_OK
		cmd_seq	M_OK
History:	25.05.99	ACI	Initial

4.15.4 ACIATI194: Process Unstructured SS request, with network request involved

Description:

Mobile initiated process unstructured SS request. The network does request USSD during transaction.

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CUSD=1)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CUSD=,...)     |                            |
      *==========================>*                            |
(4)   |                            |       MNSS_BEGIN_REQ       |
      |                            *==========================>*
(5)   |                            |     MNSS_FACILITY_IND      |
      |                            *<==========================*
(6)   |         ACI_CMD_IND        |                            |
      |     (msg: +CUSD: 1,...)    |                            |
      *<==========================*                            |
(7)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(8)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CUSD=,...)     |                            |
      *==========================>*                            |
(9)   |                            |     MNSS_FACILITY_REQ      |
      |                            *==========================>*
(10)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(11)  |                            |     MNSS_FACILITY_IND      |
      |                            *<==========================*
(12)  |         ACI_CMD_IND        |                            |
      |     (msg: +CUSD: 1,...)    |                            |
      *<==========================*                            |
(13)  |         ACI_CMD_REQ        |                            |
      |      (cmd: +CUSD=,...)     |                            |
      *==========================>*                            |
(14)  |                            |     MNSS_FACILITY_REQ      |
      |                            *==========================>*
(15)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(16)  |                            |        MNSS_END_IND        |
      |                            *<==========================*
(17)  |         ACI_CMD_IND        |                            |
      |     (msg: +CUSD: 0,...)    |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CUSD_ON
	cmd_seq	C_PLUS_CUSD_ON

(2) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(3) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_PLUS_CUSD_SEND
cmd_seq	C_PLUS_CUSD_SEND

(4) MNSS_BEGIN_REQ

ti	NUM_0
fac_inf	A_FAC_USSD_PROC
ss_ver	NOT_USED

(5) MNSS_FACILITY_IND

ti	NUM_0
fac_inf	A_FAC_USSD_REQ

(6) ACI_CMD_IND

cmd_len	LM_PLUS_CUSD_REQ
cmd_seq	M_PLUS_CUSD_REQ

(7) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(8) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_PLUS_CUSD_SEND
cmd_seq	C_PLUS_CUSD_SEND

(9) MNSS_FACILITY_REQ

ti	NUM_0
fac_inf	A_FAC_USSD_REQ_RES
ss_ver	NOT_USED

(10) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(11) MNSS_FACILITY_IND

ti	NUM_0
fac_inf	A_FAC_USSD_REQ

(12) ACI_CMD_IND

cmd_len	LM_PLUS_CUSD_REQ
cmd_seq	M_PLUS_CUSD_REQ

(13) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_PLUS_CUSD_SEND
cmd_seq	C_PLUS_CUSD_SEND

(14) MNSS_FACILITY_REQ

ti	NUM_0
fac_inf	A_FAC_USSD_REQ_RES
ss_ver	NOT_USED

(15) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(16) MNSS_END_IND

ti	NUM_0

		cs	SS_NO_ERROR
		fac_inf	A_FAC_USSD_PROC_RES
(17) ACI_CMD_IND			
		cmd_len	LM_PLUS_CUSD_PROC_RES
		cmd_seq	M_PLUS_CUSD_PROC_RES
History:	25.05.99	ACI	Initial

4.15.5 ACIATI195: Process Unstructured SS request, network supports only version 1 protocol

Description:

Mobile initiated process unstructured SS request. The network does not support version 2 protocol. Message has to be repeated using version 1 protocol. Successful outcome.

Preamble:

ACIATI001

Variants: <A>....<B>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CUSD=1)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CUSD=,...)     |                            |
      *==========================>*                            |
(4)   |                            |       MNSS_BEGIN_REQ       |
      |                            *==========================>*
(5)   |                            |        MNSS_END_IND        |
      |                            *<==========================*
(6)   |                            |       MNSS_BEGIN_REQ       |
      |                            *==========================>*
(7)   |                            |        MNSS_END_IND        |
      |                            *<==========================*
(8)   |         ACI_CMD_IND        |                            |
      |     (msg: +CUSD: 0,...)    |                            |
      *<==========================*                            |
(9)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CUSD_ON
	cmd_seq	C_PLUS_CUSD_ON

(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CUSD_SEND
	cmd_seq	C_PLUS_CUSD_SEND
(4) MNSS_BEGIN_REQ		
	ti	NUM_0
	fac_inf	A_FAC_USSD_PROC
	ss_ver	A_SS_VER_2
(5) MNSS_END_IND		
	ti	NUM_0
<A>	cs	SS_NO_ERROR
<B>	cs	SS_ERR_FACILITY_REJECT
<A>	fac_inf	A_FAC_USSD_PROC_REJ
<B>	fac_inf	NOT_USED
(6) MNSS_BEGIN_REQ		
	ti	NUM_0
	fac_inf	A_FAC_USSD_PROC_IA5
	ss_ver	A_SS_VER_1
(7) MNSS_END_IND		
	ti	NUM_0
	cs	SS_NO_ERROR
	fac_inf	A_FAC_USSD_DAT_RES
(8) ACI_CMD_IND		
	cmd_len	LM_PLUS_CUSD_DAT_RES
	cmd_seq	M_PLUS_CUSD_DAT_RES
(9) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History:	25.05.99	ACI	Initial

4.15.6 ACIATI196: Process Unstructured SS request, network does not support USSD

Description:

Mobile initiated process unstructured SS request. The network does not support any version of the USSD protocol. Unsuccessful outcome.

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CUSD=1)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CUSD=,...)     |                            |
      *==========================>*                            |
(4)   |                            |       MNSS_BEGIN_REQ       |
      |                            *==========================>*
(5)   |                            |        MNSS_END_IND        |
      |                            *<==========================*
(6)   |                            |       MNSS_BEGIN_REQ       |
      |                            *==========================>*
(7)   |                            |        MNSS_END_IND        |
      |                            *<==========================*
(8)   |         ACI_CMD_IND        |                            |
      |        (msg: ERROR)        |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CUSD_ON
	cmd_seq	C_PLUS_CUSD_ON
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CUSD_SEND
	cmd_seq	C_PLUS_CUSD_SEND
(4) MNSS_BEGIN_REQ		
	ti	NUM_0
	fac_inf	A_FAC_USSD_PROC
	ss_ver	A_SS_VER_2
(5) MNSS_END_IND		
	ti	NUM_0
	cs	SS_NO_ERROR
	fac_inf	A_FAC_USSD_PROC_REJ
(6) MNSS_BEGIN_REQ		
	ti	NUM_0
	fac_inf	A_FAC_USSD_PROC_IA5
	ss_ver	A_SS_VER_1
(7) MNSS_END_IND		
	ti	NUM_0
	cs	SS_NO_ERROR
	fac_inf	A_FAC_USSD_PROC_REJ

(8) ACI_CMD_IND			
		cmd_len	LM_ERROR
		cmd_seq	M_ERROR
History:	25.05.99	ACI	Initial

4.15.7 ACIATI197: Unstructured SS control string, network supports only version 1 protocol

Description:

Mobile initiated process unstructured SS request. The network does not support version 2 protocol. Message has to be repeated using version 1 protocol. Successful outcome.

Preamble:

ACIATI001

Variants: <A>....<B>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |     (cmd: +CUSD=,...)      |                            |
      *==========================>*                            |
(2)   |                            |       MNSS_BEGIN_REQ       |
      |                            *==========================>*
(3)   |                            |        MNSS_END_IND        |
      |                            *<==========================*
(4)   |                            |       MNSS_BEGIN_REQ       |
      |                            *==========================>*
(5)   |                            |        MNSS_END_IND        |
      |                            *<==========================*
(6)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_D_KSD_30
	cmd_seq	C_D_KSD_30
(2) MNSS_BEGIN_REQ		
	ti	NUM_0
	fac_inf	A_FAC_USSD_PROC_KSD
	ss_ver	A_SS_VER_2
(3) MNSS_END_IND		
	ti	NUM_0
<A>	cs	SS_NO_ERROR
<B>	cs	SS_ERR_FACILITY_REJECT
<A>	fac_inf	A_FAC_USSD_PROC_REJ
<B>	fac_inf	NOT_USED
(4) MNSS_BEGIN_REQ		
	ti	NUM_0

		fac_inf	A_FAC_USSD_PROC_KSD_IA5
		ss_ver	A_SS_VER_1
(5) MNSS_END_IND			
		ti	NUM_0
		cs	SS_NO_ERROR
		fac_inf	A_FAC_USSD_DAT_RES
(6) ACI_CMD_IND			
		cmd_len	LM_OK
		cmd_seq	M_OK
History:	25.05.99	ACI	Initial

4.16 SS Notification "+CSSN" (ACIATI201-ACIATI209)

4.16.1 ACIATI201: SS Notify

Description:

Receive SS notify during call setup.

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CSSN=1,1)      |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |     (cmd: D03039094111)    |                            |
      *==========================>*                            |
(4)   |                            |       MNCC_SETUP_REQ       |
      |                            *==========================>*
(5)   |                            |        SIM_SYNC_REQ        |
      |                            *==========================>*
(6)   |                            |     MNCC_FACILITY_IND      |
      |                            *<==========================*
(7)   |         ACI_CMD_IND        |                            |
      |        (msg: +CSSI)        |                            |
      *<==========================*                            |
(8)   |         ACI_CMD_IND        |                            |
      |        (msg: +CSSI)        |                            |
      *<==========================*                            |
(9)   |         ACI_CMD_IND        |                            |
      |        (msg: +CSSU)        |                            |
      *<==========================*                            |
(10)  |         ACI_CMD_IND        |                            |
      |        (msg: +CSSU)        |                            |
      *<==========================*                            |
(11)  |         ACI_CMD_IND        |                            |
      |        (msg: +CSSI)        |                            |
      *<==========================*                            |
(12)  |         ACI_CMD_IND        |                            |
      |        (msg: +CSSI)        |                            |
      *<==========================*                            |
(13)  |         ACI_CMD_IND        |                            |
      |        (msg: +CSSU)        |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CSSN_ON
	cmd_seq	C_PLUS_CSSN_ON
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_D_VOICE
	cmd_seq	C_D_VOICE

(4) MNCC_SETUP_REQ

ti	NUM_0
prio	PRIO_NORM_CALL
ri	RI_NOT_PRES
bcpara	S_BS_VOICE
bcpara2	S_BS_NOT_PRESENT
called_party	S_CLD_PARTY
called_party_sub	S_CLD_PARTY_SUB
clir_sup	NOT_PRESENT_8BIT
fac_inf	NOT_USED

(5) SIM_SYNC_REQ

synccs	SYNC_START_CALL

(6) MNCC_FACILITY_IND

ti	NUM_0
fac_context	NOT_USED
fac_inf	A_FAC_NTFY_SS_1

(7) ACI_CMD_IND

cmd_len	LM_PLUS_CSSI_CFU
cmd_seq	M_PLUS_CSSI_CFU

(8) ACI_CMD_IND

cmd_len	LM_PLUS_CSSI_CW
cmd_seq	M_PLUS_CSSI_CW

(9) ACI_CMD_IND

cmd_len	LM_PLUS_CSSU_HLD
cmd_seq	M_PLUS_CSSU_HLD

(10) ACI_CMD_IND

cmd_len	LM_PLUS_CSSU_MPTY
cmd_seq	M_PLUS_CSSU_MPTY

(11) ACI_CMD_IND

cmd_len	LM_PLUS_CSSI_CUG
cmd_seq	M_PLUS_CSSI_CUG

(12) ACI_CMD_IND

cmd_len	LM_PLUS_CSSI_CLIR
cmd_seq	M_PLUS_CSSI_CLIR

(13) ACI_CMD_IND

cmd_len	LM_PLUS_CSSU_ECT_ALRT
cmd_seq	M_PLUS_CSSU_ECT_ALRT

History:	18.05.99	ACI	Initial

4.16.2 ACIATI202: Forward Check SS Indication

Description:

Receive forward check SS indication during call setup.

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CSSN=1,1)      |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |     (cmd: D03039094111)    |                            |
      *==========================>*                            |
(4)   |                            |       MNCC_SETUP_REQ       |
      |                            *==========================> *
(5)   |                            |        SIM_SYNC_REQ        |
      |                            *==========================> *
(6)   |                            |      MNCC_FACILITY_IND     |
      |                            *<========================== *
(7)   |         ACI_CMD_IND        |                            |
      |        (msg: +CSSI)        |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CSSN_ON
	cmd_seq	C_PLUS_CSSN_ON
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_D_VOICE
	cmd_seq	C_D_VOICE
(4) MNCC_SETUP_REQ		
	ti	NUM_0
	prio	PRIO_NORM_CALL
	ri	RI_NOT_PRES
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT
	called_party	S_CLD_PARTY
	called_party_sub	S_CLD_PARTY_SUB
	clir_sup	NOT_PRESENT_8BIT
	fac_inf	NOT_USED
(5) SIM_SYNC_REQ		
	synccs	SYNC_START_CALL
(6) MNCC_FACILITY_IND		
	ti	NUM_0
	fac_context	NOT_USED
	fac_inf	A_FAC_CHECK_SS

(7) ACI_CMD_IND		
	cmd_len	LM_PLUS_CSSU_CHK
	cmd_seq	M_PLUS_CSSU_CHK

History: 18.05.99 ACI Initial

4.17 Select bearer service type "CBST=?" (ACIATI210 – ACIATI219)

4.17.1 ACIATI210: getting list of supported modes

Description:

Select Bearer Service Type, listing of supported modes

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: +CBST=?)        |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |     (cmd: +CSTA: ...)      |                            |
      *<==========================*                            |
(3)   |        ACI_CMD_IND         |                            |
      |         (cmd: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CBST_T
	cmd_seq	C_CBST_T
(2) ACI_CMD_IND		
	cmd_len	LM_CBST_T
	cmd_seq	M_CBST_T
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 06.10.99 DAK Initial

4.17.2 ACIATI211: getting initial bcap settings

Description:

Select Bearer Service Type, test of initial settings

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CBST?)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |     (cmd: +CBST: 7,0,1)    |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CBST_Q
	cmd_seq	C_CBST_Q
(2) ACI_CMD_IND		
	cmd_len	LM_CBST_Q0
	cmd_seq	M_CBST_Q14
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 05.10.99 DAK Initial

4.17.3 ACIATI212: setting bcap mode, and test settings - PART I

Description:

Select Bearer Service Type, setting types and test whether type was setted

Preamble:

ACIATI002

Variants: <A>....<T>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |     (cmd: +CBST x,x,x)     |                            |
      *==========================>*                            |
(2)   |                            |     MNCC_CONFIGURE_REQ     |
      |                            *==========================>*
(3)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
(4)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CBST?)       |                            |
      *==========================>*                            |
(5)   |         ACI_CMD_IND        |                            |
      |     (cmd: +CSTA: x,x,x)    |                            |
      *<==========================*                            |
(6)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_CBST_S0
<A>	cmd_seq	C_CBST_S01
<B>	cmd_len	LC_CBST_S0
<B>	cmd_seq	C_CBST_S03
<C>	cmd_len	LC_CBST_S0
<C>	cmd_seq	C_CBST_S05
<D>	cmd_len	LC_CBST_S0
<D>	cmd_seq	C_CBST_S07
<E>	cmd_len	LC_CBST_S0
<E>	cmd_seq	C_CBST_S09
<F>	cmd_len	LC_CBST_S0
<F>	cmd_seq	C_CBST_S11
<G>	cmd_len	LC_CBST_S0
<G>	cmd_seq	C_CBST_S13
<H>	cmd_len	LC_CBST_S1
<H>	cmd_seq	C_CBST_S15
<I>	cmd_len	LC_CBST_S1
<I>	cmd_seq	C_CBST_S17
<J>	cmd_len	LC_CBST_S1
<J>	cmd_seq	C_CBST_S19
<K>	cmd_len	LC_CBST_S1
<K>	cmd_seq	C_CBST_S21
<L>	cmd_len	LC_CBST_S1
<L>	cmd_seq	C_CBST_S23
<M>	cmd_len	LC_CBST_S1
<M>	cmd_seq	C_CBST_S25
<N>	cmd_len	LC_CBST_S1
<N>	cmd_seq	C_CBST_S27
<O>	cmd_len	LC_CBST_S1
<O>	cmd_seq	C_CBST_S29
<P>	cmd_len	LC_CBST_S1

<P>	cmd_seq	C_CBST_S31
<Q>	cmd_len	LC_CBST_S1
<Q>	cmd_seq	C_CBST_S33
<R>	cmd_len	LC_CBST_S1
<R>	cmd_seq	C_CBST_S35
<S>	cmd_len	LC_CBST_S1
<S>	cmd_seq	C_CBST_S37
<T>	cmd_len	LC_CBST_S1
<T>	cmd_seq	C_CBST_S39

(2) MNCC_CONFIGURE_REQ

	called_party_sub	NOT_USED
<A>	bcpara	S_BS_DAT_TRA_300
<B>	bcpara	S_BS_DAT_TRA_1200
<C>	bcpara	S_BS_DAT_TRA_1200_75
<D>	bcpara	S_BS_DAT_TRA_2400
<E>	bcpara	S_BS_DAT_TRA_2400_V26
<F>	bcpara	S_BS_DAT_TRA_4800
<G>	bcpara	S_BS_DAT_TRA_9600
<H>	bcpara	S_BS_DAT_TRA_9600_V34
<I>	bcpara	S_BS_DAT_TRA_14400_V34
<J>	bcpara	S_BS_DAT_TRA_1200_TM_NONE
<K>	bcpara	S_BS_DAT_TRA_2400_V120
<L>	bcpara	S_BS_DAT_TRA_4800_V120
<M>	bcpara	S_BS_DAT_TRA_9600_V120
<N>	bcpara	S_BS_DAT_TRA_14400_V120
<O>	bcpara	S_BS_DAT_TRA_300_V110
<P>	bcpara	S_BS_DAT_TRA_1200_TM_NONE
<Q>	bcpara	S_BS_DAT_TRA_2400_V120
<R>	bcpara	S_BS_DAT_TRA_4800_V120
<S>	bcpara	S_BS_DAT_TRA_9600_V120
<T>	bcpara	S_BS_DAT_TRA_14400_V120
	sns_mode	SNS_MODE_VOICE

(3) ACI_CMD_IND

	cmd_len	LM_OK
	cmd_seq	M_OK

(4) ACI_CMD_REQ

	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CBST_Q
	cmd_seq	C_CBST_Q

(5) ACI_CMD_IND

<A>	cmd_len	LM_CBST_Q0
<A>	cmd_seq	M_CBST_Q01
<B>	cmd_len	LM_CBST_Q0
<B>	cmd_seq	M_CBST_Q03
<C>	cmd_len	LM_CBST_Q0
<C>	cmd_seq	M_CBST_Q05
<D>	cmd_len	LM_CBST_Q0
<D>	cmd_seq	M_CBST_Q07
<E>	cmd_len	LM_CBST_Q0
<E>	cmd_seq	M_CBST_Q09
<F>	cmd_len	LM_CBST_Q0
<F>	cmd_seq	M_CBST_Q11
<G>	cmd_len	LM_CBST_Q0
<G>	cmd_seq	M_CBST_Q13
<H>	cmd_len	LM_CBST_Q1

<H>	cmd_seq	M_CBST_Q15
<I>	cmd_len	LM_CBST_Q1
<I>	cmd_seq	M_CBST_Q17
<J>	cmd_len	LM_CBST_Q1
<J>	cmd_seq	M_CBST_Q19
<K>	cmd_len	LM_CBST_Q1
<K>	cmd_seq	M_CBST_Q21
<L>	cmd_len	LM_CBST_Q1
<L>	cmd_seq	M_CBST_Q23
<M>	cmd_len	LM_CBST_Q1
<M>	cmd_seq	M_CBST_Q25
<N>	cmd_len	LM_CBST_Q1
<N>	cmd_seq	M_CBST_Q27
<O>	cmd_len	LM_CBST_Q1
<O>	cmd_seq	M_CBST_Q29
<P>	cmd_len	LM_CBST_Q1
<P>	cmd_seq	M_CBST_Q31
<Q>	cmd_len	LM_CBST_Q1
<Q>	cmd_seq	M_CBST_Q33
<R>	cmd_len	LM_CBST_Q1
<R>	cmd_seq	M_CBST_Q35
<S>	cmd_len	LM_CBST_Q1
<S>	cmd_seq	M_CBST_Q37
<T>	cmd_len	LM_CBST_Q1
<T>	cmd_seq	M_CBST_Q39

(6) ACI_CMD_IND

	cmd_len	LM_OK
	cmd_seq	M_OK

History:	06.10.99	DAK	Initial

4.17.4 ACIATI213: setting bcap mode, and test settings - PART II

Description:

Select Bearer Service Type, setting types and test whether type was set

Preamble:

ACIATI002

Variants: <A>....<T>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |     (cmd: +CBST x,x,x)     |                            |
      * ========================== *                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      * <========================== *                            |
(3)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CBST?)       |                            |
      * ========================== *                            |
(4)   |         ACI_CMD_IND        |                            |
      |     (cmd: +CSTA: x,x,x)    |                            |
      * <========================== *                            |
(5)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
```

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

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_CBST_S0
<A>	cmd_seq	C_CBST_S02
<B>	cmd_len	LC_CBST_S0
<B>	cmd_seq	C_CBST_S04
<C>	cmd_len	LC_CBST_S0
<C>	cmd_seq	C_CBST_S06
<D>	cmd_len	LC_CBST_S0
<D>	cmd_seq	C_CBST_S08
<E>	cmd_len	LC_CBST_S0
<E>	cmd_seq	C_CBST_S10
<F>	cmd_len	LC_CBST_S0
<F>	cmd_seq	C_CBST_S12
<G>	cmd_len	LC_CBST_S0
<G>	cmd_seq	C_CBST_S14
<H>	cmd_len	LC_CBST_S1
<H>	cmd_seq	C_CBST_S16
<I>	cmd_len	LC_CBST_S1
<I>	cmd_seq	C_CBST_S18
<J>	cmd_len	LC_CBST_S1
<J>	cmd_seq	C_CBST_S20
<K>	cmd_len	LC_CBST_S1
<K>	cmd_seq	C_CBST_S22
<L>	cmd_len	LC_CBST_S1
<L>	cmd_seq	C_CBST_S24
<M>	cmd_len	LC_CBST_S1
<M>	cmd_seq	C_CBST_S26
<N>	cmd_len	LC_CBST_S1
<N>	cmd_seq	C_CBST_S28
<O>	cmd_len	LC_CBST_S1
<O>	cmd_seq	C_CBST_S30
<P>	cmd_len	LC_CBST_S1
<P>	cmd_seq	C_CBST_S32
<Q>	cmd_len	LC_CBST_S1
<Q>	cmd_seq	C_CBST_S34
<R>	cmd_len	LC_CBST_S1
<R>	cmd_seq	C_CBST_S36
<S>	cmd_len	LC_CBST_S1
<S>	cmd_seq	C_CBST_S38
<T>	cmd_len	LC_CBST_S1
<T>	cmd_seq	C_CBST_S40
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CBST_Q
	cmd_seq	C_CBST_Q

(4) ACI_CMD_IND

<A>	cmd_len	LM_CBST_Q0
<A>	cmd_seq	M_CBST_Q02
<B>	cmd_len	LM_CBST_Q0
<B>	cmd_seq	M_CBST_Q04
<C>	cmd_len	LM_CBST_Q0
<C>	cmd_seq	M_CBST_Q06
<D>	cmd_len	LM_CBST_Q0
<D>	cmd_seq	M_CBST_Q08
<E>	cmd_len	LM_CBST_Q0
<E>	cmd_seq	M_CBST_Q10
<F>	cmd_len	LM_CBST_Q0
<F>	cmd_seq	M_CBST_Q12
<G>	cmd_len	LM_CBST_Q0
<G>	cmd_seq	M_CBST_Q14
<H>	cmd_len	LM_CBST_Q1
<H>	cmd_seq	M_CBST_Q16
<I>	cmd_len	LM_CBST_Q1
<I>	cmd_seq	M_CBST_Q18
<J>	cmd_len	LM_CBST_Q1
<J>	cmd_seq	M_CBST_Q20
<K>	cmd_len	LM_CBST_Q1
<K>	cmd_seq	M_CBST_Q22
<L>	cmd_len	LM_CBST_Q1
<L>	cmd_seq	M_CBST_Q24
<M>	cmd_len	LM_CBST_Q1
<M>	cmd_seq	M_CBST_Q26
<N>	cmd_len	LM_CBST_Q1
<N>	cmd_seq	M_CBST_Q28
<O>	cmd_len	LM_CBST_Q1
<O>	cmd_seq	M_CBST_Q30
<P>	cmd_len	LM_CBST_Q1
<P>	cmd_seq	M_CBST_Q32
<Q>	cmd_len	LM_CBST_Q1
<Q>	cmd_seq	M_CBST_Q34
<R>	cmd_len	LM_CBST_Q1
<R>	cmd_seq	M_CBST_Q36
<S>	cmd_len	LM_CBST_Q1
<S>	cmd_seq	M_CBST_Q38
<T>	cmd_len	LM_CBST_Q1
<T>	cmd_seq	M_CBST_Q40

(5) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History: 06.10.99 DAK Initial

4.17.5 ACIATI214: trying to set an illegal service type

Description:

Select Bearer Service Type, test illegal settings

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |     (cmd: +CBST=7,0,2)     |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |        (cmd: ERROR)        |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CBST_S0
		cmd_seq	C_CBST_S99
(2)	ACI_CMD_IND		
		cmd_len	LM_CME_ERR_INV_OPP
		cmd_seq	M_CME_ERR_INV_OPP

History: 06.10.99 DAK Initial

4.18 Radio link Protocol "+CRLP"(ACIATI220 – ACIATI229)

4.18.1 ACIATI220: getting list supported modes

Description:

Radio Link Protocol, performe test command

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |       (cmd: +CRLP=?)       |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |     (cmd: +CRLP: ...)      |                            |
      *<==========================*                            |
(3)   |        ACI_CMD_IND         |                            |
      |         (cmd: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CRLP_T
	cmd_seq	C_CRLP_T
(2) ACI_CMD_IND		
	cmd_len	LM_CRLP_T
	cmd_seq	M_CRLP_T
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 06.01.2000 DAK Initial

4.18.2 ACIATI221: reading initial settings

Description:

Radio Link Protocol, getting initial settings

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CRLP?)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |      (cmd: +CRLP: ...)     |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CRLP_Q
	cmd_seq	C_CRLP_Q
(2) ACI_CMD_IND		
	cmd_len	LM_CRLP_Q0
	cmd_seq	M_CRLP_Q0
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History:	06.01.2000	DAK	Initial

4.18.3 ACIATI222: setting modes and check after changes

Description:

Radio Link Protocol, setting modes and check, whether they are setted

Preamble:

ACIATI002

Variants:

<A>...<H>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CRLP=...)     |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CRLP?)       |                            |
      *==========================>*                            |
(4)   |         ACI_CMD_IND        |                            |
      |      (cmd: +CRLP: ...)     |                            |
      *<==========================*                            |
(5)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_CRLP_S0
<A>	cmd_seq	C_CRLP_S0
<B>	cmd_len	LC_CRLP_S1
<B>	cmd_seq	C_CRLP_S1
<C>	cmd_len	LC_CRLP_S2
<C>	cmd_seq	C_CRLP_S2
<D>	cmd_len	LC_CRLP_S3
<D>	cmd_seq	C_CRLP_S3
<E>	cmd_len	LC_CRLP_S4
<E>	cmd_seq	C_CRLP_S4
<F>	cmd_len	LC_CRLP_S5
<F>	cmd_seq	C_CRLP_S5
<G>	cmd_len	LC_CRLP_S6
<G>	cmd_seq	C_CRLP_S6
<H>	cmd_len	LC_CRLP_S7
<H>	cmd_seq	C_CRLP_S7
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT

	cmd_len	LC_CRLP_Q
	cmd_seq	C_CRLP_Q
(4) ACI_CMD_IND		
<A>	cmd_len	LM_CRLP_Q1
<A>	cmd_seq	M_CRLP_Q1
<B>	cmd_len	LM_CRLP_Q2
<B>	cmd_seq	M_CRLP_Q2
<C>	cmd_len	LM_CRLP_Q3
<C>	cmd_seq	M_CRLP_Q3
<D>	cmd_len	LM_CRLP_Q4
<D>	cmd_seq	M_CRLP_Q4
<E>	cmd_len	LM_CRLP_Q5
<E>	cmd_seq	M_CRLP_Q5
<F>	cmd_len	LM_CRLP_Q6
<F>	cmd_seq	M_CRLP_Q6
<G>	cmd_len	LM_CRLP_Q7
<G>	cmd_seq	M_CRLP_Q7
<H>	cmd_len	LM_CRLP_Q8
<H>	cmd_seq	M_CRLP_Q8
(5) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 06.01.2000 DAK Initial

4.18.4 ACIATI223: trying to set illegal modes

Description:

Radio Link Protocol, trying to set illegal modes

Preamble:

ACIATI002

Variants:

<A>...<F>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CRLP=...)      |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_CRLP_S10
<A>	cmd_seq	C_CRLP_S10
<B>	cmd_len	LC_CRLP_S11
<B>	cmd_seq	C_CRLP_S11
<C>	cmd_len	LC_CRLP_S12
<C>	cmd_seq	C_CRLP_S12

<D>	cmd_len	LC_CRLP_S13
<D>	cmd_seq	C_CRLP_S13
<E>	cmd_len	LC_CRLP_S14
<E>	cmd_seq	C_CRLP_S14
<F>	cmd_len	LC_CRLP_S15
<F>	cmd_seq	C_CRLP_S15
(2) ACI_CMD_IND		
	cmd_len	LM_CME_ERR_INV_OPP
	cmd_seq	M_CME_ERR_INV_OPP

History: 06.01.2000 DAK Initial

4.19 Service reporting control "+CR"(ACIATI230 – ACIATI239)

4.19.1 ACIATI230: getting list of supported modes

Description:

Service Report Control, listing of supported modes

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CR=?)        |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |      (cmd: +CR: 0,1)       |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CR_T
	cmd_seq	C_CR_T
(2) ACI_CMD_IND		
	cmd_len	LM_CR_T
	cmd_seq	M_CR_T
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 06.10.99 DAK Initial

4.19.2 ACIATI231: testing initial settings

Description:

Service Report Control, testing initial settings

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |        (cmd: +CR?)         |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |       (cmd: +CR: 0)        |                            |
      *<==========================*                            |
(3)   |        ACI_CMD_IND         |                            |
      |         (cmd: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CR_Q
	cmd_seq	C_CR_Q
(2) ACI_CMD_IND		
	cmd_len	LM_CR_Q
	cmd_seq	M_CR_Q0
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 06.10.99 DAK Initial

4.19.3 ACIATI232: setting modes and check whether done

Description:

Service Report Control, setting types and test whether type was setted

Preamble:

ACIATI002

Variants:

<A>....<B>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CR (0||1)      |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
       *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |         (cmd: +CR?)        |                            |
      *==========================>*                            |
(4)   |         ACI_CMD_IND        |                            |
      |     (cmd: +CR:(0||1))      |                            |
      *<==========================*                            |
(5)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CR_S
<A>	cmd_seq	C_CR_S0
<B>	cmd_seq	C_CR_S1
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CR_Q
	cmd_seq	C_CR_Q
(4) ACI_CMD_IND		
	cmd_len	LM_CR_Q
<A>	cmd_seq	M_CR_Q0
<B>	cmd_seq	M_CR_Q1
(5) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 06.10.99 DAK Initial

4.19.4 ACIATI233: trying to set illegal modes

Description:

Service Report Control, set illegal mode

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |        (cmd: +CR=2)        |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |        (cmd: ERROR)        |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CR_S
	cmd_seq	C_CR_S9
(2) ACI_CMD_IND		
	cmd_len	LM_CME_ERR_INV_OPP
	cmd_seq	M_CME_ERR_INV_OPP

History: 06.10.99 DAK Initial

4.20 Expected Error Reporting "+CEER"(ACIATI240 – ACIATI245)

4.20.1 ACIATI240: getting list of supportes modes

Description:

expected error reporting, linsting of supported modes

Preamble:

ACIATI002

Variants:

<A>...<B>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |    (cmd: +CEER=?,+CEER?)   |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |     (cmd: OK,CME ERROR)    |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value

(1) ACI_CMD_REQ

	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_CEER_T
<A>	cmd_seq	C_CEER_T
<B>	cmd_len	LC_CEER_Q
<B>	cmd_seq	C_CEER_Q

(2) ACI_CMD_IND

<A>	cmd_len	LM_OK
<A>	cmd_seq	M_OK
<B>	cmd_len	LM_CME_ERR_INV_OPP
<B>	cmd_seq	M_CME_ERR_INV_OPP

History: 18.01.2000 DAK Initial

4.20.2 ACIATI241: reading last error report

Description:

expected error reporting, reading last report

Variants:

<A>...<N>

Preamble:

<A>ACIATI002
<B>ACIATI047A
<C> ACIATI047B
<D> ACIATI047C
<E> ACIATI047D
<F> ACIATI047E
<G> ACIATI048A
<H> ACIATI048B
<I> ACIATI048C
<J> ACIATI048D
<K> ACIATI048E
<L> ACIATI048F
<M> ACIATI048G
<N> ACIATI048H

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CEER)        |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |   (cmd: +CEER: <errmsg>)   |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT

	cmd_len	LC_CEER_S
	cmd_seq	C_CEER_S
(2) ACI_CMD_IND		
<A>	cmd_len	LM_CEER_NO_ERR
<A>	cmd_seq	M_CEER_NO_ERR
<B>	cmd_len	LM_CEER_BEAR_SERV_NOT_AVAIL
<B>	cmd_seq	M_CEER_BEAR_SERV_NOT_AVAIL
<C>	cmd_len	LM_CEER_NO_TRANS_ID_AVAIL
<C>	cmd_seq	M_CEER_NO_TRANS_ID_AVAIL
<D>	cmd_len	LM_CEER_T303
<D>	cmd_seq	M_CEER_T303
<E>	cmd_len	LM_CEER_ESTAB_FAIL
<E>	cmd_seq	M_CEER_ESTAB_FAIL
<F>	cmd_len	LM_CEER_NO_ERR
<F>	cmd_seq	M_CEER_NO_ERR
<G>	cmd_len	LM_CEER_USR_BUSY
<G>	cmd_seq	M_CEER_USR_BUSY
<H>	cmd_len	LM_CEER_ALRT_NO_ANSW
<H>	cmd_seq	M_CEER_ALRT_NO_ANSW
<I>	cmd_len	LM_CEER_UNASSIGNED
<I>	cmd_seq	M_CEER_UNASSIGNED
<J>	cmd_len	LM_CEER_NO_ROUTE
<J>	cmd_seq	M_CEER_NO_ROUTE
<K>	cmd_len	LM_CEER_NO_USR_RESP
<K>	cmd_seq	M_CEER_NO_USR_RESP
<L>	cmd_len	LM_CEER_DEST_OOO
<L>	cmd_seq	M_CEER_DEST_OOO
<M>	cmd_len	LM_CEER_INV_FORMAT
<M>	cmd_seq	M_CEER_INV_FORMAT
<N>	cmd_len	LM_CEER_NO_ERR
<N>	cmd_seq	M_CEER_NO_ERR
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 18.01.2000 DAK Initial

4.21 Cellular result codes "+CRC"(ACIATI246 – ACIATI255)

4.21.1 ACIATI246: listing of supported modes

Description:

Cellular Result Codes, listing of supported modes

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CRC=?)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |      (cmd: +CRC: 0,1)      |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
```

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

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CRC_T
	cmd_seq	C_CRC_T
(2) ACI_CMD_IND		
	cmd_len	LM_CRC_T
	cmd_seq	M_CRC_T
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 06.10.99 DAK Initial

4.21.2 ACIATI247: checking initial settings

Description:

Cellular Result Codes, testing initial settings

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CRC?)        |                            |
      * ========================== > *                          |
(2)   |         ACI_CMD_IND        |                            |
      |       (cmd: +CRC: 0)       |                            |
      * <========================== *                          |
(3)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      * <========================== *                          |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CRC_Q
	cmd_seq	C_CRC_Q
(2) ACI_CMD_IND		
	cmd_len	LM_CRC_Q
	cmd_seq	M_CRC_Q0
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History:	06.10.99	DAK	Initial

4.21.3 ACIATI248: setting several modes and check whether setted

Description:

Cellular Result Codes, setting types and test whether type was setted

Preamble:

ACIATI002

Variants:

<A>....<B>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CRC (0||1)     |                            |
      * ========================== > *                         |
(2)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      * <========================== *                         |
(3)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CRC?)        |                            |
      * ========================== > *                         |
(4)   |         ACI_CMD_IND        |                            |
      |     (cmd: +CRC:(0||1))     |                            |
      * <========================== *                         |
(5)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      * <========================== *                         |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CRC_S
<A>	cmd_seq	C_CRC_S0
<B>	cmd_seq	C_CRC_S1
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CRC_Q
	cmd_seq	C_CRC_Q
(4) ACI_CMD_IND		
	cmd_len	LM_CRC_Q
<A>	cmd_seq	M_CRC_Q0
<B>	cmd_seq	M_CRC_Q1
(5) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History:	06.10.99	DAK	Initial

4.21.4 ACIATI249: trying to set illegal modes

Description:

Cellular Result Codes, set illegal mode

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CRC=2)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |        (cmd: ERROR)        |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CRC_S
	cmd_seq	C_CRC_S9
(2) ACI_CMD_IND		
	cmd_len	LM_CME_ERR_INV_OPP
	cmd_seq	M_CME_ERR_INV_OPP

History:	06.10.99	DAK	Initial

4.22 Closed user group "+CCUG"(ACIATI256 – ACIATI270)

4.22.1 ACIATI256: listing of supported modes

Description:

Closed user group, listing of supported modes

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CCUG=?)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |      (cmd: +CCUG: ...)     |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CCUG_T
	cmd_seq	C_CCUG_T
(2) ACI_CMD_IND		
	cmd_len	LM_CCUG_T
	cmd_seq	M_CCUG_T
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 07.10.99 DAK Initial

4.22.2 ACIATI257: checking initial settings

Description:

Closed user group, testing initial settings

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CCUG?)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |     (cmd: +CCUG: 0,0,0)    |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CCUG_Q
	cmd_seq	C_CCUG_Q
(2) ACI_CMD_IND		
	cmd_len	LM_CCUG_Q0
	cmd_seq	M_CCUG_Q00
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 07.10.99 DAK Initial

4.22.3 ACIATI258: setting modes and check changes - Part I

Description:

Closed user group, setting types and test whether type was setted

Preamble:

ACIATI002

Variants:

<A>....<V>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CCUG=*)      |                            |
      * ========================== *                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      * <========================== *                            |
(3)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CCUG?)       |                            |
      * ========================== *                            |
(4)   |         ACI_CMD_IND        |                            |
      |       (cmd: +CSTA: *)      |                            |
      * <========================== *                            |
(5)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      * <========================== *                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_CCUG_S0
<A>	cmd_seq	C_CCUG_S00
<B>	cmd_len	LC_CCUG_S0
<B>	cmd_seq	C_CCUG_S01
<C>	cmd_len	LC_CCUG_S0
<C>	cmd_seq	C_CCUG_S02
<D>	cmd_len	LC_CCUG_S0
<D>	cmd_seq	C_CCUG_S03
<E>	cmd_len	LC_CCUG_S0
<E>	cmd_seq	C_CCUG_S04
<F>	cmd_len	LC_CCUG_S0
<F>	cmd_seq	C_CCUG_S05
<G>	cmd_len	LC_CCUG_S0
<G>	cmd_seq	C_CCUG_S06
<H>	cmd_len	LC_CCUG_S0
<H>	cmd_seq	C_CCUG_S07
<I>	cmd_len	LC_CCUG_S0
<I>	cmd_seq	C_CCUG_S08
<J>	cmd_len	LC_CCUG_S0
<J>	cmd_seq	C_CCUG_S09
<K>	cmd_len	LC_CCUG_S1
<K>	cmd_seq	C_CCUG_S10
<L>	cmd_len	LC_CCUG_S0
<L>	cmd_seq	C_CCUG_S11
<M>	cmd_len	LC_CCUG_S0
<M>	cmd_seq	C_CCUG_S12
<N>	cmd_len	LC_CCUG_S0
<N>	cmd_seq	C_CCUG_S13
<O>	cmd_len	LC_CCUG_S0
<O>	cmd_seq	C_CCUG_S14
<P>	cmd_len	LC_CCUG_S0
<P>	cmd_seq	C_CCUG_S15
<Q>	cmd_len	LC_CCUG_S0
<Q>	cmd_seq	C_CCUG_S16

<R>	cmd_len	LC_CCUG_S0
<R>	cmd_seq	C_CCUG_S17
<S>	cmd_len	LC_CCUG_S0
<S>	cmd_seq	C_CCUG_S18
<T>	cmd_len	LC_CCUG_S0
<T>	cmd_seq	C_CCUG_S19
<U>	cmd_len	LC_CCUG_S0
<U>	cmd_seq	C_CCUG_S20
<V>	cmd_len	LC_CCUG_S1
<V>	cmd_seq	C_CCUG_S21

(2) ACI_CMD_IND

	cmd_len	LM_OK
	cmd_seq	M_OK

(3) ACI_CMD_REQ

	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CCUG_Q
	cmd_seq	C_CCUG_Q

(4) ACI_CMD_IND

<A>	cmd_len	LM_CCUG_Q0
<A>	cmd_seq	M_CCUG_Q00
<B>	cmd_len	LM_CCUG_Q0
<B>	cmd_seq	M_CCUG_Q01
<C>	cmd_len	LM_CCUG_Q0
<C>	cmd_seq	M_CCUG_Q02
<D>	cmd_len	LM_CCUG_Q0
<D>	cmd_seq	M_CCUG_Q03
<E>	cmd_len	LM_CCUG_Q0
<E>	cmd_seq	M_CCUG_Q04
<F>	cmd_len	LM_CCUG_Q0
<F>	cmd_seq	M_CCUG_Q05
<G>	cmd_len	LM_CCUG_Q0
<G>	cmd_seq	M_CCUG_Q06
<H>	cmd_len	LM_CCUG_Q0
<H>	cmd_seq	M_CCUG_Q07
<I>	cmd_len	LM_CCUG_Q0
<I>	cmd_seq	M_CCUG_Q08
<J>	cmd_len	LM_CCUG_Q0
<J>	cmd_seq	M_CCUG_Q09
<K>	cmd_len	LM_CCUG_Q1
<K>	cmd_seq	M_CCUG_Q10
<L>	cmd_len	LM_CCUG_Q0
<L>	cmd_seq	M_CCUG_Q11
<M>	cmd_len	LM_CCUG_Q0
<M>	cmd_seq	M_CCUG_Q12
<N>	cmd_len	LM_CCUG_Q0
<N>	cmd_seq	M_CCUG_Q13
<O>	cmd_len	LM_CCUG_Q0
<O>	cmd_seq	M_CCUG_Q14
<P>	cmd_len	LM_CCUG_Q0
<P>	cmd_seq	M_CCUG_Q15
<Q>	cmd_len	LM_CCUG_Q0
<Q>	cmd_seq	M_CCUG_Q16
<R>	cmd_len	LM_CCUG_Q0
<R>	cmd_seq	M_CCUG_Q17
<S>	cmd_len	LM_CCUG_Q0

<S>	cmd_seq	M_CCUG_Q18
<T>	cmd_len	LM_CCUG_Q0
<T>	cmd_seq	M_CCUG_Q19
<U>	cmd_len	LM_CCUG_Q0
<U>	cmd_seq	M_CCUG_Q20
<V>	cmd_len	LM_CCUG_Q1
<V>	cmd_seq	M_CCUG_Q21

(5)
ACI_CMD_IND

	cmd_len	LM_OK
	cmd_seq	M_OK

History: 07.10.99 DAK Initial

4.22.4 ACIATI259: setting modes and check changes - Part II

Description:

Closed user group, setting types and test whether type was setted

Preamble:

ACIATI002

Variants:

<A>....<V>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CCUG=*)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CCUG?)       |                            |
      *==========================>*                            |
(4)   |         ACI_CMD_IND        |                            |
      |       (cmd: +CSTA: *)      |                            |
      *<==========================*                            |
(5)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value

(1) ACI_CMD_REQ

	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_CCUG_S0
<A>	cmd_seq	C_CCUG_S22
<B>	cmd_len	LC_CCUG_S0
<B>	cmd_seq	C_CCUG_S23
<C>	cmd_len	LC_CCUG_S0
<C>	cmd_seq	C_CCUG_S24
<D>	cmd_len	LC_CCUG_S0
<D>	cmd_seq	C_CCUG_S25
<E>	cmd_len	LC_CCUG_S0

<E>	cmd_seq	C_CCUG_S26
<F>	cmd_len	LC_CCUG_S0
<F>	cmd_seq	C_CCUG_S27
<G>	cmd_len	LC_CCUG_S0
<G>	cmd_seq	C_CCUG_S28
<H>	cmd_len	LC_CCUG_S0
<H>	cmd_seq	C_CCUG_S29
<I>	cmd_len	LC_CCUG_S0
<I>	cmd_seq	C_CCUG_S30
<J>	cmd_len	LC_CCUG_S0
<J>	cmd_seq	C_CCUG_S31
<K>	cmd_len	LC_CCUG_S1
<K>	cmd_seq	C_CCUG_S32
<L>	cmd_len	LC_CCUG_S0
<L>	cmd_seq	C_CCUG_S33
<M>	cmd_len	LC_CCUG_S0
<M>	cmd_seq	C_CCUG_S34
<N>	cmd_len	LC_CCUG_S0
<N>	cmd_seq	C_CCUG_S35
<O>	cmd_len	LC_CCUG_S0
<O>	cmd_seq	C_CCUG_S36
<P>	cmd_len	LC_CCUG_S0
<P>	cmd_seq	C_CCUG_S37
<Q>	cmd_len	LC_CCUG_S0
<Q>	cmd_seq	C_CCUG_S38
<R>	cmd_len	LC_CCUG_S0
<R>	cmd_seq	C_CCUG_S39
<S>	cmd_len	LC_CCUG_S0
<S>	cmd_seq	C_CCUG_S40
<T>	cmd_len	LC_CCUG_S0
<T>	cmd_seq	C_CCUG_S41
<U>	cmd_len	LC_CCUG_S0
<U>	cmd_seq	C_CCUG_S42
<V>	cmd_len	LC_CCUG_S1
<V>	cmd_seq	C_CCUG_S43

(2) ACI_CMD_IND

	cmd_len	LM_OK
	cmd_seq	M_OK

(3) ACI_CMD_REQ

	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CCUG_Q
	cmd_seq	C_CCUG_Q

(4) ACI_CMD_IND

<A>	cmd_len	LM_CCUG_Q0
<A>	cmd_seq	M_CCUG_Q22
<B>	cmd_len	LM_CCUG_Q0
<B>	cmd_seq	M_CCUG_Q23
<C>	cmd_len	LM_CCUG_Q0
<C>	cmd_seq	M_CCUG_Q24
<D>	cmd_len	LM_CCUG_Q0
<D>	cmd_seq	M_CCUG_Q25
<E>	cmd_len	LM_CCUG_Q0
<E>	cmd_seq	M_CCUG_Q26
<F>	cmd_len	LM_CCUG_Q0
<F>	cmd_seq	M_CCUG_Q27

<G>	cmd_len	LM_CCUG_Q0
<G>	cmd_seq	M_CCUG_Q28
<H>	cmd_len	LM_CCUG_Q0
<H>	cmd_seq	M_CCUG_Q29
<I>	cmd_len	LM_CCUG_Q0
<I>	cmd_seq	M_CCUG_Q30
<J>	cmd_len	LM_CCUG_Q0
<J>	cmd_seq	M_CCUG_Q31
<K>	cmd_len	LM_CCUG_Q1
<K>	cmd_seq	M_CCUG_Q32
<L>	cmd_len	LM_CCUG_Q0
<L>	cmd_seq	M_CCUG_Q33
<M>	cmd_len	LM_CCUG_Q0
<M>	cmd_seq	M_CCUG_Q34
<N>	cmd_len	LM_CCUG_Q0
<N>	cmd_seq	M_CCUG_Q35
<O>	cmd_len	LM_CCUG_Q0
<O>	cmd_seq	M_CCUG_Q36
<P>	cmd_len	LM_CCUG_Q0
<P>	cmd_seq	M_CCUG_Q37
<Q>	cmd_len	LM_CCUG_Q0
<Q>	cmd_seq	M_CCUG_Q38
<R>	cmd_len	LM_CCUG_Q0
<R>	cmd_seq	M_CCUG_Q39
<S>	cmd_len	LM_CCUG_Q0
<S>	cmd_seq	M_CCUG_Q40
<T>	cmd_len	LM_CCUG_Q0
<T>	cmd_seq	M_CCUG_Q41
<U>	cmd_len	LM_CCUG_Q0
<U>	cmd_seq	M_CCUG_Q42
<V>	cmd_len	LM_CCUG_Q1
<V>	cmd_seq	M_CCUG_Q43

(5)
ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History: 07.10.99 DAK Initial

4.22.5 ACIATI260: setting modes and check changes - Part III

Description:

Closed user group, setting types and test whether type was setted

Preamble:

ACIATI002

Variants:

<A>....<V>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CCUG=*)      |                            |
      * ========================== *                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      * <========================== *                            |
(3)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CCUG?)       |                            |
      * ========================== *                            |
(4)   |         ACI_CMD_IND        |                            |
      |       (cmd: +CSTA: *)      |                            |
      * <========================== *                            |
(5)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      * <========================== *                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_CCUG_S0
<A>	cmd_seq	C_CCUG_S44
<B>	cmd_len	LC_CCUG_S0
<B>	cmd_seq	C_CCUG_S45
<C>	cmd_len	LC_CCUG_S0
<C>	cmd_seq	C_CCUG_S46
<D>	cmd_len	LC_CCUG_S0
<D>	cmd_seq	C_CCUG_S47
<E>	cmd_len	LC_CCUG_S0
<E>	cmd_seq	C_CCUG_S48
<F>	cmd_len	LC_CCUG_S0
<F>	cmd_seq	C_CCUG_S49
<G>	cmd_len	LC_CCUG_S0
<G>	cmd_seq	C_CCUG_S50
<H>	cmd_len	LC_CCUG_S0
<H>	cmd_seq	C_CCUG_S51
<I>	cmd_len	LC_CCUG_S0
<I>	cmd_seq	C_CCUG_S52
<J>	cmd_len	LC_CCUG_S0
<J>	cmd_seq	C_CCUG_S53
<K>	cmd_len	LC_CCUG_S1
<K>	cmd_seq	C_CCUG_S54
<L>	cmd_len	LC_CCUG_S0
<L>	cmd_seq	C_CCUG_S55
<M>	cmd_len	LC_CCUG_S0
<M>	cmd_seq	C_CCUG_S56
<N>	cmd_len	LC_CCUG_S0
<N>	cmd_seq	C_CCUG_S57
<O>	cmd_len	LC_CCUG_S0
<O>	cmd_seq	C_CCUG_S58
<P>	cmd_len	LC_CCUG_S0
<P>	cmd_seq	C_CCUG_S59
<Q>	cmd_len	LC_CCUG_S0
<Q>	cmd_seq	C_CCUG_S60

<R>	cmd_len	LC_CCUG_S0
<R>	cmd_seq	C_CCUG_S61
<S>	cmd_len	LC_CCUG_S0
<S>	cmd_seq	C_CCUG_S62
<T>	cmd_len	LC_CCUG_S0
<T>	cmd_seq	C_CCUG_S63
<U>	cmd_len	LC_CCUG_S0
<U>	cmd_seq	C_CCUG_S64
<V>	cmd_len	LC_CCUG_S1
<V>	cmd_seq	C_CCUG_S65

(2) ACI_CMD_IND

	cmd_len	LM_OK
	cmd_seq	M_OK

(3) ACI_CMD_REQ

	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CCUG_Q
	cmd_seq	C_CCUG_Q

(4) ACI_CMD_IND

<A>	cmd_len	LM_CCUG_Q0
<A>	cmd_seq	M_CCUG_Q44
<B>	cmd_len	LM_CCUG_Q0
<B>	cmd_seq	M_CCUG_Q45
<C>	cmd_len	LM_CCUG_Q0
<C>	cmd_seq	M_CCUG_Q46
<D>	cmd_len	LM_CCUG_Q0
<D>	cmd_seq	M_CCUG_Q47
<E>	cmd_len	LM_CCUG_Q0
<E>	cmd_seq	M_CCUG_Q48
<F>	cmd_len	LM_CCUG_Q0
<F>	cmd_seq	M_CCUG_Q49
<G>	cmd_len	LM_CCUG_Q0
<G>	cmd_seq	M_CCUG_Q50
<H>	cmd_len	LM_CCUG_Q0
<H>	cmd_seq	M_CCUG_Q51
<I>	cmd_len	LM_CCUG_Q0
<I>	cmd_seq	M_CCUG_Q52
<J>	cmd_len	LM_CCUG_Q0
<J>	cmd_seq	M_CCUG_Q53
<K>	cmd_len	LM_CCUG_Q1
<K>	cmd_seq	M_CCUG_Q54
<L>	cmd_len	LM_CCUG_Q0
<L>	cmd_seq	M_CCUG_Q55
<M>	cmd_len	LM_CCUG_Q0
<M>	cmd_seq	M_CCUG_Q56
<N>	cmd_len	LM_CCUG_Q0
<N>	cmd_seq	M_CCUG_Q57
<O>	cmd_len	LM_CCUG_Q0
<O>	cmd_seq	M_CCUG_Q58
<P>	cmd_len	LM_CCUG_Q0
<P>	cmd_seq	M_CCUG_Q59
<Q>	cmd_len	LM_CCUG_Q0
<Q>	cmd_seq	M_CCUG_Q60
<R>	cmd_len	LM_CCUG_Q0
<R>	cmd_seq	M_CCUG_Q61
<S>	cmd_len	LM_CCUG_Q0

<S>	cmd_seq	M_CCUG_Q62
<T>	cmd_len	LM_CCUG_Q0
<T>	cmd_seq	M_CCUG_Q63
<U>	cmd_len	LM_CCUG_Q0
<U>	cmd_seq	M_CCUG_Q64
<V>	cmd_len	LM_CCUG_Q1
<V>	cmd_seq	M_CCUG_Q65

(5) ACI_CMD_IND

	cmd_len	LM_OK
	cmd_seq	M_OK

History: 07.10.99 DAK Initial

4.22.6 ACIATI261: setting modes and check changes - Part IV

Description:

Closed user group, setting types and test whether type was setted

Preamble:

ACIATI002

Variants:

<A>....<V>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CCUG=*)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CCUG?)        |                            |
      *==========================>*                            |
(4)   |         ACI_CMD_IND        |                            |
      |      (cmd: +CSTA: *)       |                            |
      *<==========================*                            |
(5)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value

(1) ACI_CMD_REQ

	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_CCUG_S0
<A>	cmd_seq	C_CCUG_S66
<B>	cmd_len	LC_CCUG_S0
<B>	cmd_seq	C_CCUG_S67
<C>	cmd_len	LC_CCUG_S0
<C>	cmd_seq	C_CCUG_S68
<D>	cmd_len	LC_CCUG_S0
<D>	cmd_seq	C_CCUG_S69
<E>	cmd_len	LC_CCUG_S0
<E>	cmd_seq	C_CCUG_S70

<F>	cmd_len	LC_CCUG_S0
<F>	cmd_seq	C_CCUG_S71
<G>	cmd_len	LC_CCUG_S0
<G>	cmd_seq	C_CCUG_S72
<H>	cmd_len	LC_CCUG_S0
<H>	cmd_seq	C_CCUG_S73
<I>	cmd_len	LC_CCUG_S0
<I>	cmd_seq	C_CCUG_S74
<J>	cmd_len	LC_CCUG_S0
<J>	cmd_seq	C_CCUG_S75
<K>	cmd_len	LC_CCUG_S1
<K>	cmd_seq	C_CCUG_S76
<L>	cmd_len	LC_CCUG_S0
<L>	cmd_seq	C_CCUG_S77
<M>	cmd_len	LC_CCUG_S0
<M>	cmd_seq	C_CCUG_S78
<N>	cmd_len	LC_CCUG_S0
<N>	cmd_seq	C_CCUG_S79
<O>	cmd_len	LC_CCUG_S0
<O>	cmd_seq	C_CCUG_S80
<P>	cmd_len	LC_CCUG_S0
<P>	cmd_seq	C_CCUG_S81
<Q>	cmd_len	LC_CCUG_S0
<Q>	cmd_seq	C_CCUG_S82
<R>	cmd_len	LC_CCUG_S0
<R>	cmd_seq	C_CCUG_S83
<S>	cmd_len	LC_CCUG_S0
<S>	cmd_seq	C_CCUG_S84
<T>	cmd_len	LC_CCUG_S0
<T>	cmd_seq	C_CCUG_S85
<U>	cmd_len	LC_CCUG_S0
<U>	cmd_seq	C_CCUG_S86
<V>	cmd_len	LC_CCUG_S1
<V>	cmd_seq	C_CCUG_S87

(2) ACI_CMD_IND

	cmd_len	LM_OK
	cmd_seq	M_OK

(3) ACI_CMD_REQ

	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CCUG_Q
	cmd_seq	C_CCUG_Q

(4) ACI_CMD_IND

<A>	cmd_len	LM_CCUG_Q0
<A>	cmd_seq	M_CCUG_Q66
<B>	cmd_len	LM_CCUG_Q0
<B>	cmd_seq	M_CCUG_Q67
<C>	cmd_len	LM_CCUG_Q0
<C>	cmd_seq	M_CCUG_Q68
<D>	cmd_len	LM_CCUG_Q0
<D>	cmd_seq	M_CCUG_Q69
<E>	cmd_len	LM_CCUG_Q0
<E>	cmd_seq	M_CCUG_Q70
<F>	cmd_len	LM_CCUG_Q0
<F>	cmd_seq	M_CCUG_Q71
<G>	cmd_len	LM_CCUG_Q0

<G>	cmd_seq	M_CCUG_Q72
<H>	cmd_len	LM_CCUG_Q0
<H>	cmd_seq	M_CCUG_Q73
<I>	cmd_len	LM_CCUG_Q0
<I>	cmd_seq	M_CCUG_Q74
<J>	cmd_len	LM_CCUG_Q0
<J>	cmd_seq	M_CCUG_Q75
<K>	cmd_len	LM_CCUG_Q1
<K>	cmd_seq	M_CCUG_Q76
<L>	cmd_len	LM_CCUG_Q0
<L>	cmd_seq	M_CCUG_Q77
<M>	cmd_len	LM_CCUG_Q0
<M>	cmd_seq	M_CCUG_Q78
<N>	cmd_len	LM_CCUG_Q0
<N>	cmd_seq	M_CCUG_Q79
<O>	cmd_len	LM_CCUG_Q0
<O>	cmd_seq	M_CCUG_Q80
<P>	cmd_len	LM_CCUG_Q0
<P>	cmd_seq	M_CCUG_Q81
<Q>	cmd_len	LM_CCUG_Q0
<Q>	cmd_seq	M_CCUG_Q82
<R>	cmd_len	LM_CCUG_Q0
<R>	cmd_seq	M_CCUG_Q83
<S>	cmd_len	LM_CCUG_Q0
<S>	cmd_seq	M_CCUG_Q84
<T>	cmd_len	LM_CCUG_Q0
<T>	cmd_seq	M_CCUG_Q85
<U>	cmd_len	LM_CCUG_Q0
<U>	cmd_seq	M_CCUG_Q86
<V>	cmd_len	LM_CCUG_Q1
<V>	cmd_seq	M_CCUG_Q87

(5) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History: 07.10.99 DAK Initial

4.22.7 ACIATI262: trying to set illegal modes

Description:

Closed user group, testing illegal settings

Preamble:

ACIATI002

Variants:

<A>....<C>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CCUG=*)       |                            |
      * ========================== > *                          |
(2)   |         ACI_CMD_IND        |                            |
      |         (cmd: ERROR)       |                            |
      * <========================== *                          |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_CCUG_S0
<A>	cmd_seq	C_CCUG_S97
<B>	cmd_len	LC_CCUG_S1
<B>	cmd_seq	C_CCUG_S98
<C>	cmd_len	LC_CCUG_S0
<C>	cmd_seq	C_CCUG_S99
(2) ACI_CMD_IND		
	cmd_len	LM_CME_ERR_INV_OPP
	cmd_seq	M_CME_ERR_INV_OPP

History: 07.10.99 DAK Initial

4.23 Call deflection "+CTRF" (ACIATI271 – ACIATI279)

4.23.1 ACIATI271: performe test & read command

Description:

Call deflection, performe test & read command

Preamble:

ACIATI002

Variants:

<A>...<B>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: +CTFR=?)        |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |    (cmd: OK, CME ERROR)    |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_CTFR_T
<A>	cmd_seq	C_CTFR_T
<B>	cmd_len	LC_CTFR_Q
<B>	cmd_seq	C_CTFR_Q
(2) ACI_CMD_IND		
<A>	cmd_len	LM_OK
<A>	cmd_seq	M_OK
<B>	cmd_len	LM_CME_ERR_INV_OPP
<B>	cmd_seq	M_CME_ERR_INV_OPP

History: 13.01.2000 DAK Initial

4.24 List current calls "+CLCC"(ACIATI280 – ACIATI289)

4.24.1 ACIATI280: getting list of supported modes and performe read command

Description:

list current calls, listing of supported modes and querry of the current calls

Preamble:

ACIATI002

Variants:

<A>...<B>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CLCC=?)       |                            |
      * ========================== *                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      * <========================== *                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_CLCC_T
<A>	cmd_seq	C_CLCC_T
<B>	cmd_len	LC_PLUS_CLCC
<B>	cmd_seq	C_PLUS_CLCC
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 12.10.99 DAK Initial

4.24.2 ACIATI281: Test of call list comand

Description:

Reutern list of current calls

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |                            |       MNCC_SETUP_IND       |
      |                            *<==========================*
(2)   |         ACI_CMD_IND        |                            |
      |         (msg: RING)        |                            |
      *<==========================*                            |
(3)   |                            |       MNCC_ALERT_REQ       |
      |                            *===========================>*
(4)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CLCC)       |                            |
      *===========================>*                            |
(5)   |         ACI_CMD_IND        |                            |
      |   (msg: +CLCC(1,1,4,..))   |                            |
      *<==========================*                            |
(6)   |         ACI_CMD_REQ        |                            |
      |         (cmd: ATA)         |                            |
      *===========================>*                            |
(7)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(8)   |                            |       MNCC_SETUP_RES       |
      |                            *===========================>*
(9)   |                            |       MNCC_SYNC_IND        |
      |                            *<==========================*
(10)  |                            |        SIM_SYNC_REQ        |
      |                            *===========================>*
(11)  |                            |       MNCC_SYNC_IND        |
      |                            *<==========================*
(12)  |                            |    MNCC_SETUP_COMPL_IND    |
      |                            *<==========================*
(13)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(14)  |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CLCC)       |                            |
      *===========================>*                            |
(15)  |         ACI_CMD_IND        |                            |
      |   (msg: +CLCC(1,1,0,..))   |                            |
      *<==========================*                            |
(16)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(17)  |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CLCC)       |                            |
      *===========================>*                            |
(18)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
```

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

Parametrization:

Primitive	Parameter	Value
(1) MNCC_SETUP_IND		
	ti	NUM_8
	ri	RI_NOT_PRES
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT
	progress_desc	PROG_NOT_PRES
	sig	SIG_RING_BACK_TONE_ON
	calling_party	S_CLG_PARTY
	calling_party_sub	S_CLG_PARTY_SUB
	called_party	S_CLD_PARTY
	called_party_sub	S_CLD_PARTY_SUB
(2) ACI_CMD_IND		
	cmd_len	LM_RING
	cmd_seq	M_RING
(3) MNCC_ALERT_REQ		
	ti	NUM_8
(4) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CLCC
	cmd_seq	C_PLUS_CLCC
(5) ACI_CMD_IND		
	cmd_len	LM_CLCC_call_incoming
	cmd_seq	M_CLCC_call_incoming
(6) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_A
	cmd_seq	C_A
(7) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(8) MNCC_SETUP_RES		
	ti	NUM_8
(9) MNCC_SYNC_IND		
	ti	NOT_PRESENT_8BIT
	cause	CAUSE_NOT_PRES
	chm	S_CHN_SPEECH
(10) SIM_SYNC_REQ		
	synccs	SYNC_START_CALL
(11) MNCC_SYNC_IND		
	ti	NOT_PRESENT_8BIT
	cause	CAUSE_NOT_PRES
	chm	S_CHN_SPEECH
(12) MNCC_SETUP_COMPL_IND		
	ti	NUM_8
	res	RES_POS

(13) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(14) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_PLUS_CLCC
cmd_seq	C_PLUS_CLCC

(15) ACI_CMD_IND

cmd_len	LM_CLCC_state_active
cmd_seq	M_CLCC_state_active

(16) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(17) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_CLCC_T
cmd_seq	C_CLCC_T

(18) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History: 05.09.00 ENZ Initial

4.24.3 ACIATI282: Test of call list comand

Description:

Reutern list of current calls

Preamble:

ACIATI281

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: AT+CCWA=1)      |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
(3)   |                            |       MNCC_SETUP_IND       |
      |                            *<==========================*
(4)   |        ACI_CMD_IND         |                            |
      |     (msg: +CCWA: ...)      |                            |
      *<==========================*                            |
(5)   |                            |       MNCC_ALERT_REQ       |
      |                            *==========================>*
(6)   |        ACI_CMD_REQ         |                            |
      |       (cmd: AT+CLCC)       |                            |
      *==========================>*                            |
(7)   |        ACI_CMD_IND         |                            |
      |   (msg: +CLCC(1,1,0,..))   |                            |
      *<==========================*                            |
(8)   |        ACI_CMD_IND         |                            |
      |   (msg: +CLCC(2,1,5,..))   |                            |
      *<==========================*                            |
(9)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CCWA_ON
	cmd_seq	C_PLUS_CCWA_ON
(2) ACI_CMD_IND		
	cmd_len	NOT_USED
	cmd_seq	NOT_USED
(3) MNCC_SETUP_IND		
	ti	NUM_8
	ri	RI_NOT_PRES
	bcpara	S_BS_VOICE
	bcpara2	S_BS_NOT_PRESENT
	progress_desc	PROG_NOT_PRES
	sig	SIG_RING_BACK_TONE_ON

	calling_party	S_CLG_PARTY
	calling_party_sub	S_CLG_PARTY_SUB
	called_party	S_CLD_PARTY
	called_party_sub	S_CLD_PARTY_SUB
(4) ACI_CMD_IND		
	cmd_len	LM_PLUS_CCWA
	cmd_seq	M_PLUS_CCWA
(5) MNCC_ALERT_REQ		
	ti	NUM_8
(6) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CLCC
	cmd_seq	C_PLUS_CLCC
(7) ACI_CMD_IND		
	cmd_len	LM_CLCC_state_active
	cmd_seq	M_CLCC_state_active
(8) ACI_CMD_IND		
	cmd_len	LM_CLCC_call_waiting
	cmd_seq	M_CLCC_call_waiting
(9) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 05.09.00 ENZ Initial

4.25 SIM data access "+CRSM" (ACIATI290-ACIATI299)

4.25.1 ACIATI290: Successful access of a SIM data field

Description:

Access of the SIM data field Efecc. Data received from the SIM is passed to the caller.

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |     (cmd: AT+CRSM=...)     |                            |
      *==========================>*                            |
(2)   |                            |       SIM_ACCESS_REQ       |
      |                            *==========================> *
(3)   |                            |       SIM_ACCESS_CNF       |
      |                            *<========================== *
(4)   |        ACI_CMD_IND         |                            |
      |      (msg: CRSM: ...)      |                            |
      *<==========================*                            |
(5)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value

(1) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_PLUS_CRSM_EFecc
cmd_seq	C_PLUS_CRSM_EFecc

(2) SIM_ACCESS_REQ

source	SRC_MMI
sim_command	SIM_READ_BINARY
datafield	SIM_ECC
p1	NUM_0
p2	NUM_0
p3	NUM_12
trans_data	NOT_USED

(3) SIM_ACCESS_CNF

error	SIM_NO_ERROR
sw1	NUM_90
sw2	NUM_0
length	NUM_12
trans_data	A_ECC_FIELD

(4) ACI_CMD_IND

cmd_len	LM_PLUS_CRSM_EFecc
cmd_seq	M_PLUS_CRSM_EFecc

(5) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History: 11.01.00 AK Initial

4.25.2 ACIATI291: Successful access of a SIM data record

Description:

Access of the SIM data record of EFadn. Data received from the SIM is passed to the caller.

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |     (cmd: AT+CRSM=...)     |                            |
      *==========================>*                            |
(2)   |                            |       SIM_ACCESS_REQ       |
      |                            *==========================>*
(3)   |                            |       SIM_ACCESS_CNF       |
      |                            *<==========================*
(4)   |        ACI_CMD_IND         |                            |
      |      (msg: CRSM: ...)      |                            |
      *<==========================*                            |
(5)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

(1)

Primitive	Parameter	Value

(2) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_PLUS_CRSM_EFadn
cmd_seq	C_PLUS_CRSM_EFadn

(3) SIM_ACCESS_REQ

source	SRC_MMI
sim_command	SIM_READ_RECORD
datafield	SIM_ADN
p1	NUM_1
p2	NUM_5
p3	NUM_20
trans_data	NOT_USED

(4) SIM_ACCESS_CNF

error	SIM_NO_ERROR
sw1	NUM_90
sw2	NUM_0
length	NUM_20
trans_data	A_ADN_REC

(5) ACI_CMD_IND

cmd_len	LM_PLUS_CRSM_EFadn
cmd_seq	M_PLUS_CRSM_EFadn

(6) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History: 11.01.00 AK Initial

4.25.3 ACIATI292: Successful write of a SIM data field

Description:

Write to the SIM data field of EFacm. Data is written to the SIM.

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |     (cmd: AT+CRSM=...)     |                            |
      *==========================>*                            |
(2)   |                            |       SIM_ACCESS_REQ       |
      |                            *==========================>*
(3)   |                            |       SIM_ACCESS_CNF       |
      |                            *<==========================*
(4)   |        ACI_CMD_IND         |                            |
      |      (msg: CRSM: ...)      |                            |
      *<==========================*                            |
(5)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value

(1) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_PLUS_CRSM_EFacm
cmd_seq	C_PLUS_CRSM_EFacm

(2) SIM_ACCESS_REQ

source	SRC_MMI
sim_command	SIM_UPDATE_BINARY
datafield	SIM_ACM
p1	NUM_0
p2	NUM_0
p3	NUM_3
trans_data	A_ACM_FIELD

(3) SIM_ACCESS_CNF

error	SIM_NO_ERROR
sw1	NUM_90
sw2	NUM_0
length	NOT_USED
trans_data	NOT_USED

(4) ACI_CMD_IND

cmd_len	LM_PLUS_CRSM_EFacm
cmd_seq	M_PLUS_CRSM_EFacm

(5) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History: 11.01.00 AK Initial

4.25.4 ACIATI293: Successful write of a SIM data record

Description:

Write of the SIM data record to EFsms. Data is written to the SIM.

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |     (cmd: AT+CRSM=...)     |                            |
      *==========================>*                            |
(2)   |                            |       SIM_ACCESS_REQ       |
      |                            *==========================> *
(3)   |                            |       SIM_ACCESS_CNF       |
      |                            *<========================== *
(4)   |        ACI_CMD_IND         |                            |
      |      (msg: CRSM: ...)      |                            |
      *<==========================*                            |
(5)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value

(1) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_PLUS_CRSM_EFsms
cmd_seq	C_PLUS_CRSM_EFsms

(2) SIM_ACCESS_REQ

source	SRC_MMI
sim_command	SIM_UPDATE_RECORD
datafield	SIM_SMS
p1	NUM_1
p2	NUM_5
p3	NUM_10
trans_data	A_SMS_REC

(3) SIM_ACCESS_CNF

error	SIM_NO_ERROR
sw1	NUM_90
sw2	NUM_0
length	NOT_USED
trans_data	NOT_USED

(4) ACI_CMD_IND

cmd_len	LM_PLUS_CRSM_EFsms
cmd_seq	M_PLUS_CRSM_EFsms

(5) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History: 11.01.00 AK Initial

4.25.5 ACIATI294: Unsuccessful access to SIM data

Description:

An access to the SIM is unsuccessful. An error code is returned.

Preamble:

ACIATI001

Variants: <A>....<D>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |      (cmd: AT+CMEE=2)      |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |     (cmd: AT+CRSM=...)     |                            |
      *==========================>*                            |
(4)   |                            |       SIM_ACCESS_REQ       |
      |                            *==========================>*
(5)   |                            |       SIM_ACCESS_CNF       |
      |                            *<==========================*
(6)   |         ACI_CMD_IND        |                            |
      |      (msg: CRSM: ...)      |                            |
      *<==========================*                            |
(7)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CMEE_VERB
	cmd_seq	C_PLUS_CMEE_VERB
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CRSM_EFsms
	cmd_seq	C_PLUS_CRSM_EFsms
(4) SIM_ACCESS_REQ		
	source	SRC_MMI
	sim_command	SIM_UPDATE_RECORD
	datafield	SIM_SMS
	p1	NUM_1
	p2	NUM_5
	p3	NUM_10
	trans_data	A_SMS_REC
(5) SIM_ACCESS_CNF		
<A>	error	SIM_INVALID_PIN_1
<B>	error	SIM_FATAL_ERROR
<C>	error	SIM_INVALID_PUK_1
<D>	error	SIM_INVALID_CARD
<A>	sw1	NUM_98
<B>	sw1	NUM_6F
<C>	sw1	NUM_98
<D>	sw1	NUM_98
<A>	sw2	NUM_4

<B>	sw2	NUM_0
<C>	sw2	NUM_4
<D>	sw2	NUM_40
	length	NOT_USED
	trans_data	NOT_USED
(6) ACI_CMD_IND		
<A>	cmd_len	LM_PLUS_CRSM_PIN
<B>	cmd_len	LM_PLUS_CRSM_FATAL
<C>	cmd_len	LM_PLUS_CRSM_PIN
<D>	cmd_len	LM_PLUS_CRSM_INV
<A>	cmd_seq	M_PLUS_CRSM_PIN
<B>	cmd_seq	M_PLUS_CRSM_FATAL
<C>	cmd_seq	M_PLUS_CRSM_PIN
<D>	cmd_seq	M_PLUS_CRSM_INV
(7) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 11.01.00 AK Initial

4.25.6 ACIATI295: Get response from SIM

Description:

Get SIM response data.

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |     (cmd: AT+CRSM=...)     |                            |
      *==========================>*                            |
(2)   |                            |       SIM_ACCESS_REQ       |
      |                            *==========================>*
(3)   |                            |       SIM_ACCESS_CNF       |
      |                            *<==========================*
(4)   |        ACI_CMD_IND         |                            |
      |      (msg: CRSM: ...)      |                            |
      *<==========================*                            |
(5)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CRSM_GetRes
	cmd_seq	C_PLUS_CRSM_GetRes
(2) SIM_ACCESS_REQ		
	source	SRC_MMI
	sim_command	SIM_GET_RESPONSE
	datafield	SIM_FDN

	p1	NOT_PRESENT_8BIT
	p2	NOT_PRESENT_8BIT
	p3	NOT_PRESENT_8BIT
	trans_data	NOT_USED
(3) SIM_ACCESS_CNF		
	error	SIM_NO_ERROR
	sw1	NUM_90
	sw2	NUM_0
	length	NUM_10
	trans_data	A_RESP_DATA
(4) ACI_CMD_IND		
	cmd_len	LM_PLUS_CRSM_GetRes
	cmd_seq	M_PLUS_CRSM_GetRes
(5) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 11.01.00 AK Initial

4.25.7 ACIATI296: Get status from SIM

Description:

Get SIM status.

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |     (cmd: AT+CRSM=...)     |                            |
      *==========================>*                            |
(2)   |                            |       SIM_ACCESS_REQ       |
      |                            *==========================> *
(3)   |                            |       SIM_ACCESS_CNF       |
      |                            *<========================== *
(4)   |        ACI_CMD_IND         |                            |
      |      (msg: CRSM: ...)      |                            |
      *<==========================*                            |
(5)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CRSM_Stat
	cmd_seq	C_PLUS_CRSM_Stat
(2) SIM_ACCESS_REQ		
	source	SRC_MMI
	sim_command	SIM_STATUS
	datafield	NOT_PRESENT_16BIT

	p1	NOT_PRESENT_8BIT
	p2	NOT_PRESENT_8BIT
	p3	NOT_PRESENT_8BIT
	trans_data	NOT_USED
(3) SIM_ACCESS_CNF		
	error	SIM_NO_ERROR
	sw1	NUM_92
	sw2	NUM_90
	length	NUM_0
	trans_data	NOT_USED
(4) ACI_CMD_IND		
	cmd_len	LM_PLUS_CRSM_Stat
	cmd_seq	M_PLUS_CRSM_Stat
(5) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 11.01.00 AK Initial

4.26 List all avaiable AT Commands "+CLAC" (ACIATI300-ACIATI309)

4.26.1 ACIATI300: List all avaiable AT Commands

Description:

List all available AT-Commands

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |       (cmd: +ClAC )        |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |    (msg: AT Command 1)     |                            |
      *<==========================*                            |
(3)   |        ACI_CMD_IND         |                            |
      |    (msg: AT Command 2)     |                            |
      *<==========================*                            |
(4)   |        ACI_CMD_IND         |                            |
      |    (msg: AT Command 3)     |                            |
      *<==========================*                            |
(5)   |        ACI_CMD_IND         |                            |
      |    (msg: AT Command 4)     |                            |
      *<==========================*                            |
(6)   |        ACI_CMD_IND         |                            |
      |    (msg: AT Command 5)     |                            |
      *<==========================*                            |
(7)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CLAC
	cmd_seq	C_PLUS_CLAC
(2) ACI_CMD_IND		
	cmd_len	LM_CLAC1
	cmd_seq	M_CLAC1
(3) ACI_CMD_IND		
	cmd_len	LM_CLAC2
	cmd_seq	M_CLAC2
(4) ACI_CMD_IND		
	cmd_len	LM_CLAC3
	cmd_seq	M_CLAC3
(5) ACI_CMD_IND		
	cmd_len	LM_CLAC4
	cmd_seq	M_CLAC4
(6) ACI_CMD_IND		
	cmd_len	LM_CLAC5
	cmd_seq	M_CLAC5
(7) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 06.09.00 ENZ Initial

4.26.2 ACIATI301: List all avaiable AT Commands

Description:

List all available AT-Commands

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +ClAC=? )      |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |        (msg: error )       |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CLAC_T
	cmd_seq	C_PLUS_CLAC_T

(2) ACI_CMD_IND		
	cmd_len	LM_ERROR
	cmd_seq	M_ERROR

History: 06.09.00 ENZ Initial

4.27 List all avaiable AT Commands "+CPIN" (ACIATI310-ACIATI319)

4.27.1 ACIATI310: Power On

Description:

activate SIM card at power on

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: +CMEE=2)        |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
(3)   |        ACI_CMD_REQ         |                            |
      |      (cmd: +CFUN=1)        |                            |
      *==========================>*                            |
(4)   |                            |     SIM_ACTIVATE_REQ       |
      |                            *==========================>*
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CMEE_VERB
	cmd_seq	C_PLUS_CMEE_VERB
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CFUN_FULL
	cmd_seq	C_PLUS_CFUN_FULL
(4) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	NOT_USED
	stk_pro_file	NOT_USED

History:	10.08.98	ACI	Initial

4.27.2 ACIATI311: PIN required

Description:

after activation of the SIM, it is detected that the PIN is required. After that it is detected a wrong password

Preamble:

ACIATI310

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |                            |      SIM_ACTIVATE_CNF      |
      |                            *<==========================*
(2)   |         ACI_CMD_IND        |                            |
      |          (msg: err)        |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CPIN=1234)     |                            |
      *==========================>*                            |
(4)   |                            |     SIM_VERIFY_PIN_REQ     |
      |                            *==========================>*
(5)   |                            |     SIM_VERIFY_PIN_CNF     |
      |                            *<==========================*
(6)   |         ACI_CMD_IND        |                            |
      |          (msg: err)        |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) SIM_ACTIVATE_CNF		
	error	SIM_INVALID_PIN_1
	pin_cnt	NUM_3
	puk_cnt	NUM_9
	pin2_cnt	NUM_3
	puk2_cnt	NUM_9
	ec_code	NOT_USED
	pref_lang	NOT_USED
(2) ACI_CMD_IND		
	cmd_len	LM_ERR_PIN_REQ
	cmd_seq	M_ERR_PIN_REQ
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPIN_1234
	cmd_seq	C_PLUS_CPIN_1234
(4) SIM_VERIFY_PIN_REQ		
	source	SRC_MMI
	pin	A_PIN_1234
	pin_id	PHASE_2_PIN_1
(5) SIM_VERIFY_PIN_CNF		
	error	SIM_INVALID_PIN_1
	pin_id	PHASE_2_PIN_1
	pin_cnt	NUM_2
	puk_cnt	NUM_10

	pin2_cnt	NUM_3
	puk2_cnt	NUM_10
(6) ACI_CMD_IND		
	cmd_len	LM_ERR_WRONG_PWD
	cmd_seq	M_ERR_WRONG_PWD

History: 10.08.98 ACI Initial

4.27.3 ACIATI312: SIM blocked, due to invalid PIN entry

Description:

after illegal PIN entry no attempts are left which leads to a SIM blocking

Preamble:

ACIATI311

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |     (cmd: +CPIN=1234)      |                            |
      *==========================>*                            |
(2)   |                            |     SIM_VERIFY_PIN_REQ     |
      |                            *==========================>*
(3)   |                            |     SIM_VERIFY_PIN_CNF     |
      |                            *<==========================*
(4)   |        ACI_CMD_IND         |                            |
      |         (msg: err)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPIN_1234
	cmd_seq	C_PLUS_CPIN_1234
(2) SIM_VERIFY_PIN_REQ		
	source	SRC_MMI
	pin	A_PIN_1234
	pin_id	PHASE_2_PIN_1
(3) SIM_VERIFY_PIN_CNF		
	error	SIM_INVALID_PUK_1
	pin_id	PHASE_2_PIN_1
	pin_cnt	NUM_2
	puk_cnt	NUM_10
	pin2_cnt	NUM_3
	puk2_cnt	NUM_10
(4) ACI_CMD_IND		
	cmd_len	LM_ERR_WRONG_PWD
	cmd_seq	M_ERR_WRONG_PWD

History: 10.08.98 ACI Initial

4.27.4 ACIATI313: PIN not required

Description:

after activation of the SIM, it is detected that no PIN is required. The network registration is started.

Preamble:

ACIATI310

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |                            |      SIM_ACTIVATE_CNF      |
      |                            *<==========================*
(2)   |                            |     SIM_MMI_INSERT_IND     |
      |                            *<==========================*
(3)   |                            |        SIM_READ_REQ        |
      |                            *===========================>*
(4)   |                            |        SIM_READ_CNF        |
      |                            *<==========================*
(5)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) SIM_ACTIVATE_CNF		
	error	SIM_NO_ERROR
	pin_cnt	NUM_3
	puk_cnt	NUM_9
	pin2_cnt	NUM_3
	puk2_cnt	NUM_9
	ec_code	NOT_USED
	pref_lang	NOT_USED
(2) SIM_MMI_INSERT_IND		
	func	SIM_ADN_ENABLED
	sim_serv	NOT_USED
	imsi_field	NOT_USED
	pref_plmn	NOT_USED
	phase	PHASE_2_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED
(3) SIM_READ_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_ECC
	length	NOT_PRESENT_8BIT
	max_length	NUM_0
(4) SIM_READ_CNF		
	datafield	SIM_ECC
	error	SIM_NO_ERROR

	length	NUM_12
	trans_data	A_ECC_FIELD
(5) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 10.08.98 ACI Initial

4.27.5 ACIATI314: SIM removed/inserted

Description:

SIM is removed and inserted during power on

Preamble:

ACIATI313

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |                            |       SIM_REMOVE_IND       |
      |                            *<========================== *
(2)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CPIN?)       |                            |
      *==========================> *                            |
(3)   |                            |      SIM_ACTIVATE_REQ      |
      |                            *==========================> *
(4)   |                            |      SIM_ACTIVATE_CNF      |
      |                            *<========================== *
(5)   |         ACI_CMD_IND        |                            |
      |          (msg: err)        |                            |
      *<========================== *                            |
(6)   |                            |      SIM_ACTIVATE_CNF      |
      |                            *<========================== *
(7)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CPIN?)       |                            |
      *==========================> *                            |
(8)   |         ACI_CMD_IND        |                            |
      |       (msg: +CPIN: )       |                            |
      *<========================== *                            |
(9)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<========================== *                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) SIM_REMOVE_IND		
	error	SIM_NO_ERROR
(2) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPIN_QUERY
	cmd_seq	C_PLUS_CPIN_QUERY
(3) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	NOT_USED
	stk_pro_file	NOT_USED

(4) SIM_ACTIVATE_CNF

error	SIM_FATAL_ERROR
pin_cnt	NUM_0
puk_cnt	NUM_0
pin2_cnt	NUM_0
puk2_cnt	NUM_0
ec_code	NOT_USED
pref_lang	NOT_USED

(5) ACI_CMD_IND

cmd_len	LM_ERR_SIM_FATAL
cmd_seq	M_ERR_SIM_FATAL

(6) SIM_ACTIVATE_CNF

error	SIM_INVALID_PIN_1
pin_cnt	NUM_3
puk_cnt	NUM_9
pin2_cnt	NUM_3
puk2_cnt	NUM_9
ec_code	NOT_USED
pref_lang	NOT_USED

(7) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_PLUS_CPIN_QUERY
cmd_seq	C_PLUS_CPIN_QUERY

(8) ACI_CMD_IND

cmd_len	LM_PLUS_CPIN_PIN1
cmd_seq	M_PLUS_CPIN_PIN1

(9) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History: 10.08.98 ACI Initial

4.27.6 ACIATI315: Query PIN Status, no SIM information

Description:

Query for PIN status. SIM data currently not available.

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: AT+CPIN?)      |                            |
      *==========================>*                            |
(2)   |                            |      SIM_ACTIVATE_REQ      |
      |                            *==========================>*
(3)   |                            |      SIM_ACTIVATE_CNF      |
      |                            *<==========================*
(4)   |         ACI_CMD_IND        |                            |
      |   (msg: +CPIN: SIM PIN..)  |                            |
      *<==========================*                            |
(5)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
```

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

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPIN_QUERY
	cmd_seq	C_PLUS_CPIN_QUERY
(2) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	NOT_USED
	stk_pro_file	NOT_USED
(3) SIM_ACTIVATE_CNF		
	error	SIM_INVALID_PIN_1
	pin_cnt	NUM_3
	puk_cnt	NUM_9
	pin2_cnt	NUM_3
	puk2_cnt	NUM_9
	ec_code	NOT_USED
	pref_lang	NOT_USED
(4) ACI_CMD_IND		
	cmd_len	LM_PLUS_CPIN_PIN1
	cmd_seq	M_PLUS_CPIN_PIN1
(5) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 23.04.99 AK Initial

4.28 Advice of charge "+CAOC"(ACIATI320 – ACIATI329)

4.28.1 ACIATI320: getting list of supported modes

Description:

Advisce of charge, listing of supported modes

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CAOC=?)       |                            |
      * ========================== > *                          |
(2)   |         ACI_CMD_IND        |                            |
      |     (cmd: +CAOC: ...)      |                            |
      * <========================== *                            |
(3)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      * <========================== *                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CAOC_T
	cmd_seq	C_CAOC_T
(2) ACI_CMD_IND		
	cmd_len	LM_CAOC_T
	cmd_seq	M_CAOC_T
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 07.10.99 DAK Initial

4.28.2 ACIATI321: checking initial settings

Description:

Advisce of charge, testing initial settings

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CAOC?)       |                            |
      * ========================== *                            |
(2)   |         ACI_CMD_IND        |                            |
      |       (cmd: +CAOC: 2)      |                            |
      * <========================== *                            |
(3)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      * <========================== *                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CAOC_Q
	cmd_seq	C_CAOC_Q
(4) ACI_CMD_IND		
	cmd_len	LM_CAOC_Q
	cmd_seq	M_CAOC_Q1
(5) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History:	07.10.99	DAK	Initial

4.28.3 ACIATI322: setting modes and test whether they are changed

Description:

Advice of Charge, setting call mode and test whether mode was setted

Preamble:

ACIATI002

Variants:

<A>....<B>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CAOC=*)      |                            |
      * ========================== > *                         |
(2)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      * <========================== *                         |
(3)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CAOC?)       |                            |
      * ========================== > *                         |
(4)   |         ACI_CMD_IND        |                            |
      |       (cmd: +CAOC: *)      |                            |
      * <========================== *                         |
(5)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      * <========================== *                         |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CAOC_S
<A>	cmd_seq	C_CAOC_S1
<B>	cmd_seq	C_CAOC_S2
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CAOC_Q
	cmd_seq	C_CAOC_Q
(4) ACI_CMD_IND		
	cmd_len	LM_CAOC_Q
<A>	cmd_seq	M_CAOC_Q1
<B>	cmd_seq	M_CAOC_Q2
(5) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 05.10.99 DAK Initial

4.28.4 ACIATI323: setting modes and test whether they are changed

Description:

Advice of Charge, setting call mode and test whether mode was setted

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CAOC=*)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |      (cmd: +CAOC: *)       |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_IND        |                            |
      |         (cmd: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CAOC_S
	cmd_seq	C_CAOC_S0
(2) ACI_CMD_IND		
	cmd_len	LM_CAOC_CCM
	cmd_seq	M_CAOC_CCM
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 05.10.99 DAK Initial

4.28.5 ACIATI324: trying to set illegal modes

Description:

Advisce of charge, test illegal settings

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CAOC=4)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |        (cmd: ERROR)        |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CAOC_S
	cmd_seq	C_CAOC_S9
(2) ACI_CMD_IND		
	cmd_len	LM_CME_ERR_INV_OPP
	cmd_seq	M_CME_ERR_INV_OPP

History: 07.10.99 DAK Initial

4.29 Accumulated call meter "+CACM"(ACIATI330 – ACIATI340)

4.29.1 ACIATI330: getting list of supported modes

Description:

accumulated call meter, listing of supported modes

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: +CACM=?)        |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |         (cmd: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CACM_T
	cmd_seq	C_CACM_T
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 12.10.99 DAK Initial

4.29.2 ACIATI331: test initial settings

Description:

accumulated call meter, test of initial settings

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CACM?)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |       (cmd: +CACM: 0)      |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CACM_Q
	cmd_seq	C_CACM_Q
(2) ACI_CMD_IND		
	cmd_len	LM_CACM_Q1
	cmd_seq	M_CACM_Q1
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 12.10.99 DAK Initial

4.29.3 ACIATI332: performe a set command

Description:

accumulated call meter, setting

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |   (cmd: +CACM=\"12345\")   |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CACM_S
	cmd_seq	C_CACM_S
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 12.10.99 DAK Initial

4.30 Select phonebook memory storrage "+CPBS" (ACIATI341 – ACIATI360)

4.30.1 ACIATI341: initialize phonebook (preamble for the ADN and BDN-phonebook test)

Description:

initialize phonebook (Test of ADN / BDN phonebook)

Preamble:

ACIATI001

Variants:

<A>...<D>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CFUN=1)       |                            |
      *===========================>*                            |
(2)   |                            |      SIM_ACTIVATE_REQ      |
      |                            *===========================>*
(3)   |                            |      SIM_ACTIVATE_CNF      |
      |                            *<===========================*
(4)   |                            |     SIM_MMI_INSERT_IND     |
      |                            *<===========================*
(5)   |                            |        SIM_READ_REQ        |
      |                            *===========================>*
(6)   |                            |        SIM_READ_CNF        |
      |                            *<===========================*
(7)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<===========================*                            |
(8)   |                            |      MNSMS_REPORT_IND      |
      |                            *<===========================*
(9)   |                            |    SIM_READ_RECORD_REQ     |
      |                            *===========================>*
(10)  |                            |    SIM_READ_RECORD_CNF     |
      |                            *<===========================*
(11)  |                            |    SIM_READ_RECORD_REQ     |
      |                            *===========================>*
(12)  |                            |    SIM_READ_RECORD_CNF     |
      |                            *<===========================*
(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     |
      |                            *<===========================*
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT

	cmd_len	LC_PLUS_CFUN_FULL
	cmd_seq	C_PLUS_CFUN_FULL
(2) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	NOT_USED
	stk_pro_file	NOT_USED
(3) SIM_ACTIVATE_CNF		
	error	SIM_NO_ERROR
	pin_cnt	NUM_3
	puk_cnt	NUM_3
	pin2_cnt	NUM_3
	puk2_cnt	NUM_3
	ec_code	EC_CODES
	pref_lang	NO_PREF_LANG
(4) SIM_MMI_INSERT_IND		
	func	SIM_ADN_BDN_ENABLED
	sim_serv	SIM_SERV_ADN_BDN
	imsi_field	IMSI_FIELD
	pref_plmn	PREF_PLMN
	phase	PHASE_2_SIM
	access_acm	ACCESS_ALWAYS
	access_acmmax	ACCESS_ALWAYS
	access_puct	ACCESS_ALWAYS
(5) SIM_READ_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_ECC
	length	NOT_PRESENT_8BIT
	max_length	NUM_0
(6) SIM_READ_CNF		
	datafield	SIM_ECC
	error	SIM_NO_ERROR
	length	NUM_12
	trans_data	A_ECC_FIELD
(7) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(8) MNSMS_REPORT_IND		
	cause	CS_SMS_READY
	msg_ref	NUM_0
(9) SIM_READ_RECORD_REQ		
	source	SRC_MMI
	datafield	SIM_ADN
	record	NUM_1
	length	MAX_DATAS
(10) SIM_READ_RECORD_CNF		
	datafield	SIM_ADN
	error	SIM_NO_ERROR
	record	NUM_1
	max_record	NUM_4
<A>	length	LDATA_ADN34
<A>	linear_data	DATA_ADN34_1
<B>	length	LDATA_ADN38

<B>	linear_data	DATA_ADN38_1
<C>	length	LDATA_ADN54
<C>	linear_data	DATA_ADN54_1
<D>	length	LDATA_ADN94
<D>	linear_data	DATA_ADN94_1

(11) SIM_READ_RECORD_REQ

	source	SRC_MMI
	datafield	SIM_ADN
	record	NUM_2
<A>	length	LDATA_ADN34
<B>	length	LDATA_ADN38
<C>	length	LDATA_ADN54
<D>	length	LDATA_ADN94

(12) SIM_READ_RECORD_CNF

	datafield	SIM_ADN
	error	SIM_NO_ERROR
	record	NUM_2
	max_record	NUM_4
<A>	length	LDATA_ADN34
<A>	linear_data	DATA_ADN34_2
<B>	length	LDATA_ADN38
<B>	linear_data	DATA_ADN38_2
<C>	length	LDATA_ADN54
<C>	linear_data	DATA_ADN54_2
<D>	length	LDATA_ADN94
<D>	linear_data	DATA_ADN94_2

(13) SIM_READ_RECORD_REQ

	source	SRC_MMI
	datafield	SIM_ADN
	record	NUM_3
<A>	length	LDATA_ADN34
<B>	length	LDATA_ADN38
<C>	length	LDATA_ADN54
<D>	length	LDATA_ADN94

(14) SIM_READ_RECORD_CNF

	datafield	SIM_ADN
	error	SIM_NO_ERROR
	record	NUM_3
	max_record	NUM_4
<A>	length	LDATA_ADN34
<A>	linear_data	DATA_EMPTY_ADN34
<B>	length	LDATA_ADN38
<B>	linear_data	DATA_EMPTY_ADN38
<C>	length	LDATA_ADN54
<C>	linear_data	DATA_EMPTY_ADN54
<D>	length	LDATA_ADN94
<D>	linear_data	DATA_EMPTY_ADN94

(15) SIM_READ_RECORD_REQ

	source	SRC_MMI
	datafield	SIM_ADN
	record	NUM_4
<A>	length	LDATA_ADN34
<B>	length	LDATA_ADN38
<C>	length	LDATA_ADN54
<D>	length	LDATA_ADN94

(16) SIM_READ_RECORD_CNF

	datafield	SIM_ADN
	error	SIM_NO_ERROR
	record	NUM_4
	max_record	NUM_4
<A>	length	LDATA_ADN34
<A>	linear_data	DATA_EMPTY_ADN34
<B>	length	LDATA_ADN38
<B>	linear_data	DATA_EMPTY_ADN38
<C>	length	LDATA_ADN54
<C>	linear_data	DATA_EMPTY_ADN54
<D>	length	LDATA_ADN94
<D>	linear_data	DATA_EMPTY_ADN94

(17) SIM_READ_RECORD_REQ

	source	SRC_MMI
	datafield	SIM_BDN
	record	NUM_1
	length	LDATE_EMPTY

(18) SIM_READ_RECORD_CNF

	datafield	SIM_BDN
	error	SIM_NO_ERROR
	record	NUM_1
	max_record	NUM_2
	length	LDATA_BDN
	linear_data	DATA_BDN

(19) SIM_READ_RECORD_REQ

	source	SRC_MMI
	datafield	SIM_BDN
	record	NUM_2
	length	LDATA_BDN

(20) SIM_READ_RECORD_CNF

	datafield	SIM_BDN
	error	SIM_NO_ERROR
	record	NUM_2
	max_record	NUM_2
	length	LDATA_BDN
	linear_data	DATA_EMPTY_BDN

(21) SIM_READ_RECORD_REQ

	source	SRC_MMI
	datafield	SIM_SDN
	record	NUM_1
	length	LDATE_EMPTY

(22) SIM_READ_RECORD_CNF

	datafield	SIM_SDN
	error	SIM_NO_ERROR
	record	NUM_1
	max_record	NUM_1
	length	LDATA_SDN
	linear_data	DATA_SDN

History: 11.11.99 DAK Initial

4.30.2 ACIATI342: initialize phonebook (preamble for the FDN-phonebook test)

Description:

initialize phonebook (Test of FDN-phonebook)

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |       (cmd: +CFUN=1)       |                            |
      *==========================>*                            |
(2)   |                            |      SIM_ACTIVATE_REQ      |
      |                            *==========================>*
(3)   |                            |      SIM_ACTIVATE_CNF      |
      |                            *<==========================*
(4)   |                            |     SIM_MMI_INSERT_IND     |
      |                            *<==========================*
(5)   |                            |        SIM_READ_REQ        |
      |                            *==========================>*
(6)   |                            |        SIM_READ_CNF        |
      |                            *<==========================*
(7)   |        ACI_CMD_IND         |                            |
      |         (cmd: OK)          |                            |
      *<==========================*                            |
(8)   |                            |      MNSMS_REPORT_IND      |
      |                            *<==========================*
(9)   |                            |    SIM_READ_RECORD_REQ     |
      |                            *==========================>*
(10)  |                            |    SIM_READ_RECORD_CNF     |
      |                            *<==========================*
(11)  |                            |    SIM_READ_RECORD_REQ     |
      |                            *==========================>*
(12)  |                            |    SIM_READ_RECORD_CNF     |
      |                            *<==========================*
(13)  |                            |    SIM_READ_RECORD_REQ     |
      |                            *==========================>*
(14)  |                            |    SIM_READ_RECORD_CNF     |
      |                            *<==========================*
(15)  |                            |    SIM_READ_RECORD_REQ     |
      |                            *==========================>*
(16)  |                            |    SIM_READ_RECORD_CNF     |
      |                            *<==========================*
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CFUN_FULL
	cmd_seq	C_PLUS_CFUN_FULL

(2) SIM_ACTIVATE_REQ

proc	SIM_INITIALISATION
mmi_pro_file	NOT_USED
stk_pro_file	NOT_USED

(3) SIM_ACTIVATE_CNF

error	SIM_NO_ERROR
pin_cnt	NUM_3
puk_cnt	NUM_3
pin2_cnt	NUM_3
puk2_cnt	NUM_3
ec_code	EC_CODES
pref_lang	NO_PREF_LANG

(4) SIM_MMI_INSERT_IND

func	SIM_FDN_ENABLED
sim_serv	SIM_SERV_FDN
imsi_field	IMSI_FIELD
pref_plmn	PREF_PLMN
phase	PHASE_2_SIM
access_acm	ACCESS_ALWAYS
access_acmmax	ACCESS_ALWAYS
access_puct	ACCESS_ALWAYS

(5) SIM_READ_REQ

source	SRC_MMI
offset	NUM_0
datafield	SIM_ECC
length	NOT_PRESENT_8BIT
max_length	NUM_0

(6) SIM_READ_CNF

datafield	SIM_ECC
error	SIM_NO_ERROR
length	NUM_12
trans_data	A_ECC_FIELD

(7) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(8) MNSMS_REPORT_IND

cause	CS_SMS_READY
msg_ref	NUM_0

(9) SIM_READ_RECORD_REQ

source	SRC_MMI
datafield	SIM_FDN
record	NUM_1
length	MAX_DATAS

(10) SIM_READ_RECORD_CNF

datafield	SIM_FDN
error	SIM_NO_ERROR
record	NUM_1
max_record	NUM_4
length	LDATA_FDN
linear_data	DATA_FDN_1

(11) SIM_READ_RECORD_REQ

source	SRC_MMI
datafield	SIM_FDN

	record	NUM_2
	length	LDATA_FDN
(12) SIM_READ_RECORD_CNF		
	datafield	SIM_FDN
	error	SIM_NO_ERROR
	record	NUM_2
	max_record	NUM_4
	length	LDATA_FDN
	linear_data	DATA_FDN_2
(13) SIM_READ_RECORD_REQ		
	source	SRC_MMI
	datafield	SIM_FDN
	record	NUM_3
	length	LDATA_FDN
(14) SIM_READ_RECORD_CNF		
	datafield	SIM_FDN
	error	SIM_NO_ERROR
	record	NUM_3
	max_record	NUM_4
	length	LDATA_FDN
	linear_data	DATA_EMPTY_FDN
(15) SIM_READ_RECORD_REQ		
	source	SRC_MMI
	datafield	SIM_FDN
	record	NUM_4
	length	LDATA_FDN
(16) SIM_READ_RECORD_CNF		
	datafield	SIM_FDN
	error	SIM_NO_ERROR
	record	NUM_4
	max_record	NUM_4
	length	LDATA_FDN
	linear_data	DATA_EMPTY_FDN
History:	11.11.99	DAK Initial

4.30.3 ACIATI343: use verbose <err> values

Description:

Variants:

<A>...<E>

Preamble:

<A> ACIATI341A
<B> ACIATI341B
<C> ACIATI341C
<D> ACIATI341D
<E> ACIATI342

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CMEE=2)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
```

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

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CMEE_VERB
	cmd_seq	C_PLUS_CMEE_VERB
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 11.11.99 DAK Initial

4.30.4 ACIATI344: getting list of supported memory storages

Description:

Select phonebook memory storrage, getting list of supported memory storages

Preamble:

ACIATI343A

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CBPS=?)       |                            |
      * ========================> *                            |
(2)   |         ACI_CMD_IND        |                            |
      |     (cmd: +CBPS: (...))    |                            |
      * <========================== *                            |
(3)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      * <========================== *                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CPBS_T
	cmd_seq	C_CPBS_T
(2) ACI_CMD_IND		
	cmd_len	LM_CPBS_T
	cmd_seq	M_CPBS_T
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 27.01.2000 DAK Initial

4.30.5 ACIATI345: setting PHB memory storage

Description:

Select phonebook memory storrage, setting storrage

Preamble:

ACIATI343A

Variants:

<A>...<I>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CBPS=...)      |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CPBS_S
<A>	cmd_seq	C_CPBS_EN
<B>	cmd_seq	C_CPBS_BD
<C>	cmd_seq	C_CPBS_FD
<D>	cmd_seq	C_CPBS_LD
<E>	cmd_seq	C_CPBS_LR
<F>	cmd_seq	C_CPBS_AD
<G>	cmd_seq	C_CPBS_SD
<H>	cmd_seq	C_CPBS_LM
<I>	cmd_seq	C_CPBS_AF
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 27.01.2000 DAK Initial

4.30.6 ACIATI346: reading memory storage info

Description:

Select phonebook memory storrage, readin memory storrage info

Variants:

<A>...<F>

Preamble:

<A>ACIATI345A
<B>ACIATI345D
<C>ACIATI345E
<D>ACIATI345F
<E>ACIATI345H
<F>ACIATI345I

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CBPS?)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |      (cmd: +CBPS: ...)     |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CPBS_Q
	cmd_seq	C_CPBS_Q
(2) ACI_CMD_IND		
<A>	cmd_len	LM_CPBS_EN
<A>	cmd_seq	M_CPBS_EN
<B>	cmd_len	LM_CPBS_LD
<B>	cmd_seq	M_CPBS_LD
<C>	cmd_len	LM_CPBS_LR
<C>	cmd_seq	M_CPBS_LR
<D>	cmd_len	LM_CPBS_AD
<D>	cmd_seq	M_CPBS_AD
<E>	cmd_len	LM_CPBS_LM
<E>	cmd_seq	M_CPBS_LM
<F>	cmd_len	LM_CPBS_AF
<F>	cmd_seq	M_CPBS_AF
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 27.01.2000 DAK Initial

4.30.7 ACIATI347: performe some illegal commands

Description:

Read phonebook entries, performe some illegal commands

Preamble:

ACIATI343A

Variants:

<A>...<C>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CPBS*)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |       (cmd: CME ERROR)     |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CPBS_S
	<A>	cmd_seq	C_CPBS_SM
	<B>	cmd_seq	C_CPBS_AA
	<C>	cmd_seq	C_CPBS_XX
(2)	ACI_CMD_IND		
		cmd_len	LM_CME_ERR_INV_OPP
		cmd_seq	M_CME_ERR_INV_OPP

History: 09.02.2000 DAK Initial

4.31 read phonebook entries "+CPBR" (ACIATI361 – ACIATI380)

4.31.1 ACIATI361: getting supported location ranges of phb storage (ADN_Alpha_length=20)

Description:

Select phonebook memory storrage, getting supported location ranges of phb storage AND entries length 34

Variants:

<A>...<F>

Preamble:

ACIATI343A

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CPBS=..)      |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |    (cmd: +CPBR=? (...))    |                            |
      *==========================>*                            |
(4)   |         ACI_CMD_IND        |                            |
      |     (cmd: +CPBR: (...))    |                            |
      *<==========================*                            |
(5)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
```

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

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CPBS_S
<A>	cmd_seq	C_CPBS_EN
<B>	cmd_seq	C_CPBS_LD
<C>	cmd_seq	C_CPBS_LR
<D>	cmd_seq	C_CPBS_AD
<E>	cmd_seq	C_CPBS_LM
<F>	cmd_seq	C_CPBS_AF
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CPBR_T
	cmd_seq	C_CPBR_T
(4) ACI_CMD_IND		
<A>	cmd_len	LM_CPBR_T_EN1
<A>	cmd_seq	M_CPBR_T_EN1
<B>	cmd_len	LM_CPBR_T_LD1
<B>	cmd_seq	M_CPBR_T_LD1
<C>	cmd_len	LM_CPBR_T_LR1
<C>	cmd_seq	M_CPBR_T_LR1
<D>	cmd_len	LM_CPBR_T_AD1
<D>	cmd_seq	M_CPBR_T_AD1
<E>	cmd_len	LM_CPBR_T_LM1
<E>	cmd_seq	M_CPBR_T_LM1
<F>	cmd_len	LM_CPBR_T_AF1
<F>	cmd_seq	M_CPBR_T_AF1
(5) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History:			
	27.01.2000	DAK	Initial
	18.02.2000	DAK	changes for bigger ADN_length

4.31.2 ACIATI362: getting supported location ranges of phb storage (ADN_Data_length=24)

Description:

Select phonebook memory storrage, getting supported location ranges of phb storage AND entries length 38

Variants:

<A>...<F>

Preamble:

ACIATI343B

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CPBS=..)      |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |    (cmd: +CPBR=? (...))    |                            |
      *==========================>*                            |
(4)   |         ACI_CMD_IND        |                            |
      |     (cmd: +CPBR: (...))    |                            |
      *<==========================*                            |
(5)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CPBS_S
<A>	cmd_seq	C_CPBS_EN
<B>	cmd_seq	C_CPBS_LD
<C>	cmd_seq	C_CPBS_LR
<D>	cmd_seq	C_CPBS_AD
<E>	cmd_seq	C_CPBS_LM
<F>	cmd_seq	C_CPBS_AF
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CPBR_T
	cmd_seq	C_CPBR_T
(4) ACI_CMD_IND		
<A>	cmd_len	LM_CPBR_T_EN1
<A>	cmd_seq	M_CPBR_T_EN1
<B>	cmd_len	LM_CPBR_T_LD1
<B>	cmd_seq	M_CPBR_T_LD1
<C>	cmd_len	LM_CPBR_T_LR1
<C>	cmd_seq	M_CPBR_T_LR1
<D>	cmd_len	LM_CPBR_T_AD2
<D>	cmd_seq	M_CPBR_T_AD2
<E>	cmd_len	LM_CPBR_T_LM1
<E>	cmd_seq	M_CPBR_T_LM1
<F>	cmd_len	LM_CPBR_T_AF2
<F>	cmd_seq	M_CPBR_T_AF2
(5) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 18.02.2000 DAK Initial

4.31.3 ACIATI363: getting supported location ranges of phb storage (ADN_Alpha_length=40)

Description:

Select phonebook memory storrage, getting supported location ranges of phb storage AND entries length 54

Variants:

<A>...<F>

Preamble:

ACIATI343C

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CPBS=..)      |                            |
      * ========================== *                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      * <========================== *                            |
(3)   |         ACI_CMD_REQ        |                            |
      |    (cmd: +CPBR=? (...))    |                            |
      * ========================== *                            |
(4)   |         ACI_CMD_IND        |                            |
      |     (cmd: +CPBR: (...))    |                            |
      * <========================== *                            |
(5)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      * <========================== *                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CPBS_S
<A>	cmd_seq	C_CPBS_EN
<B>	cmd_seq	C_CPBS_LD
<C>	cmd_seq	C_CPBS_LR
<D>	cmd_seq	C_CPBS_AD
<E>	cmd_seq	C_CPBS_LM
<F>	cmd_seq	C_CPBS_AF
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CPBR_T
	cmd_seq	C_CPBR_T
(4) ACI_CMD_IND		
<A>	cmd_len	LM_CPBR_T_EN1
<A>	cmd_seq	M_CPBR_T_EN1
<B>	cmd_len	LM_CPBR_T_LD1
<B>	cmd_seq	M_CPBR_T_LD1

<C>	cmd_len	LM_CPBR_T_LR1
<C>	cmd_seq	M_CPBR_T_LR1
<D>	cmd_len	LM_CPBR_T_AD3
<D>	cmd_seq	M_CPBR_T_AD3
<E>	cmd_len	LM_CPBR_T_LM1
<E>	cmd_seq	M_CPBR_T_LM1
<F>	cmd_len	LM_CPBR_T_AF3
<F>	cmd_seq	M_CPBR_T_AF3

(5) ACI_CMD_IND

	cmd_len	LM_OK
	cmd_seq	M_OK

History: 18.02.2000 DAK Initial

4.31.4 ACIATI364: getting supported location ranges of phb storage (ADN_Alpha_length=80)

Description:

Select phonebook memory storrage, getting supported location ranges of phb storage AND entries length 94

Variants:

<A>...<F>

Preamble:

ACIATI343D

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CPBS=..)      |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |    (cmd: +CPBR=? (...))    |                            |
      *==========================>*                            |
(4)   |         ACI_CMD_IND        |                            |
      |     (cmd: +CPBR: (...))    |                            |
      *<==========================*                            |
(5)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CPBS_S
<A>	cmd_seq	C_CPBS_EN
<B>	cmd_seq	C_CPBS_LD
<C>	cmd_seq	C_CPBS_LR
<D>	cmd_seq	C_CPBS_AD
<E>	cmd_seq	C_CPBS_LM
<F>	cmd_seq	C_CPBS_AF

(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CPBR_T
	cmd_seq	C_CPBR_T
(4) ACI_CMD_IND		
<A>	cmd_len	LM_CPBR_T_EN1
<A>	cmd_seq	M_CPBR_T_EN1
<B>	cmd_len	LM_CPBR_T_LD1
<B>	cmd_seq	M_CPBR_T_LD1
<C>	cmd_len	LM_CPBR_T_LR1
<C>	cmd_seq	M_CPBR_T_LR1
<D>	cmd_len	LM_CPBR_T_AD4
<D>	cmd_seq	M_CPBR_T_AD4
<E>	cmd_len	LM_CPBR_T_LM1
<E>	cmd_seq	M_CPBR_T_LM1
<F>	cmd_len	LM_CPBR_T_AF4
<F>	cmd_seq	M_CPBR_T_AF4
(5) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History:	18.02.2000	DAK	Initial

4.31.5 ACIATI365: reading ad entries (ADN_Alpha_length = 20)

Description:

Select phonebook memory storrage, getting supported location ranges of phb storage

Variants:

<A>...<B>

Preamble:

ACIATI343A

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CPBS=..)      |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CPBR=<n>)      |                            |
      *==========================>*                            |
(4)   |         ACI_CMD_IND        |                            |
      |     (cmd: +CPBR: (...))    |                            |
      *<==========================*                            |
(5)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CPBS_S
	cmd_seq	C_CPBS_AD
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CPBR_S
<A>	cmd_seq	C_CPBR_S0
<B>	cmd_seq	C_CPBR_S1
(4) ACI_CMD_IND		
<A>	cmd_len	LM_CPBR_AD1
<A>	cmd_seq	M_CPBR_AD1
<B>	cmd_len	LM_CPBR_AD2
<B>	cmd_seq	M_CPBR_AD2
(5) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 08.02.2000 DAK Initial

4.31.6 ACIATI366: reading ad entries (ADN_Alpha_length > 20)

Description:

Select phonebook memory storrage, getting supported location ranges of phb storage

Variants:

<A>...<F>

Preamble:

<A> ACIATI343B
<B> ACIATI343B
<C> ACIATI343C
<D> ACIATI343C
<E> ACIATI343D
<F> ACIATI343D

```
     APL                          ACI                              PS
      |                            |                                |
(1)   |         ACI_CMD_REQ        |                                |
      |       (cmd: +CPBS=..)      |                                |
      * ========================== *                                |
(2)   |         ACI_CMD_IND        |                                |
      |          (cmd: OK)         |                                |
      * <========================== *                                |
(3)   |         ACI_CMD_REQ        |                                |
      |      (cmd: +CPBR=<n>)      |                                |
      * ========================== *                                |
(4)   |         ACI_CMD_IND        |                                |
      |     (cmd: +CPBR: (...))    |                                |
      * <========================== *                                |
(5)   |         ACI_CMD_IND        |                                |
      |          (cmd: OK)         |                                |
      * <========================== *                                |
      |                            |                                |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CPBS_S
	cmd_seq	C_CPBS_AD
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CPBR_S
<A>	cmd_seq	C_CPBR_S0
<B>	cmd_seq	C_CPBR_S1
<C>	cmd_seq	C_CPBR_S0
<D>	cmd_seq	C_CPBR_S1
<E>	cmd_seq	C_CPBR_S0
<F>	cmd_seq	C_CPBR_S1
(4) ACI_CMD_IND		
	cmd_len	LM_CPBR_AD10
<A>	cmd_seq	M_CPBR_AD10
<B>	cmd_seq	M_CPBR_AD11
<C>	cmd_seq	M_CPBR_AD10
<D>	cmd_seq	M_CPBR_AD11
<E>	cmd_seq	M_CPBR_AD10
<F>	cmd_seq	M_CPBR_AD11
(5) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History:	18.02.2000	DAK	Initial

4.31.7 ACIATI367: performe some illegal commands

Description:

Select phonebook memory storrage, performe some illegal commands

Preamble:

ACIATI343A

Variants:

<A>...<C>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CPBS="AD")     |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CPBR*)       |                            |
      *==========================>*                            |
(4)   |         ACI_CMD_IND        |                            |
      |      (cmd: CME ERROR)      |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CPBS_S
	cmd_seq	C_CPBS_AD
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_CPBR_S
<A>	cmd_seq	C_CPBR_S2
<B>	cmd_len	LC_CPBR_S
<B>	cmd_seq	C_CPBR_S3
<C>	cmd_len	LC_CPBR_Q
<C>	cmd_seq	C_CPBR_Q
(4) ACI_CMD_IND		
<A>	cmd_len	LM_OK
<A>	cmd_seq	M_OK
<B>	cmd_len	LM_CME_ERR_UNKN
<B>	cmd_seq	M_CME_ERR_UNKN
<C>	cmd_len	LM_CME_ERR_INV_OPP
<C>	cmd_seq	M_CME_ERR_INV_OPP

History: 09.02.2000 DAK Initial

4.32 find phonebook entries "+CPBF" (ACIATI381 – ACIATI395)

4.32.1 ACIATI381: getting list of supported modes

Description:

find phb entries, getting list of supported modes

Preamble:

ACIATI343A

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CPBF=?)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |      (cmd: +CPBF: ...)     |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CPBF_T
	cmd_seq	C_CPBF_T
(2) ACI_CMD_IND		
	cmd_len	LM_CPBF_T
	cmd_seq	M_CPBF_T
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 09.02.2000 DAK Initial

4.32.2 ACIATI382: searching for ADN entities starting with "H"

Description:

find phb entries, searching for ADN entities starting with "H", 2 hints expexted

Preamble:

ACIATI343A

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CPBS="AD")     |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CPBF="H")      |                            |
      *==========================>*                            |
(4)   |         ACI_CMD_IND        |                            |
      |      (cmd: +CPBF: ...)     |                            |
      *<==========================*                            |
(5)   |         ACI_CMD_IND        |                            |
      |      (cmd: +CPBF: ...)     |                            |
      *<==========================*                            |
(6)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CPBS_S
	cmd_seq	C_CPBS_AD
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CPBF_S0
	cmd_seq	C_CPBF_S0
(4) ACI_CMD_IND		
	cmd_len	LM_CPBF_S1
	cmd_seq	M_CPBF_S1
(5) ACI_CMD_IND		
	cmd_len	LM_CPBF_S0
	cmd_seq	M_CPBF_S0
(6) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 22.02.2000 DAK Initial

4.32.3 ACIATI383: searching for several ADN entities

Description:

find phb entries, searching for several ADN entities "H", 1 hint expexted

Variants:

<A>...<B>

Preamble:

ACIATI343A

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CPBS="AD")     |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CPBF="..")     |                            |
      *==========================>*                            |
(4)   |         ACI_CMD_IND        |                            |
      |      (cmd: +CPBF: ...)     |                            |
      *<==========================*                            |
(5)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CPBS_S
	cmd_seq	C_CPBS_AD
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_CPBF_S1
<A>	cmd_seq	C_CPBF_S1
<B>	cmd_len	LC_CPBF_S2
<B>	cmd_seq	C_CPBF_S2
(4) ACI_CMD_IND		
<A>	cmd_len	LM_CPBF_S1
<A>	cmd_seq	M_CPBF_S1
<B>	cmd_len	LM_CPBF_S0
<B>	cmd_seq	M_CPBF_S0
(5) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 22.02.2000 DAK Initial

4.32.4 ACIATI384: performe some "illegal" commands (query-command, searchings without hints)

Description:

find phb entries, performe some "illegal" commands (query-command, searchings without hints)

Variants:

<A>...<E>

Preamble:

ACIATI343A

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CPBS="AD")     |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CPBF..)       |                            |
      *==========================>*                            |
(4)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CPBS_S
	cmd_seq	C_CPBS_AD
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_CPBF_Q
<A>	cmd_seq	C_CPBF_Q
<B>	cmd_len	LC_CPBF_S3
<B>	cmd_seq	C_CPBF_S3
<C>	cmd_len	LC_CPBF_S4
<C>	cmd_seq	C_CPBF_S4
<D>	cmd_len	LC_CPBF_S5
<D>	cmd_seq	C_CPBF_S5
<E>	cmd_len	LC_CPBF_S6
<E>	cmd_seq	C_CPBF_S6
(4) ACI_CMD_IND		
<A>	cmd_len	LM_CME_ERR_INV_OPP
<A>	cmd_seq	M_CME_ERR_INV_OPP
<B>	cmd_len	LM_OK
<B>	cmd_seq	M_OK

<C>	cmd_len	LM_OK
<C>	cmd_seq	M_OK
<D>	cmd_len	LM_OK
<D>	cmd_seq	M_OK
<E>	cmd_len	LM_CME_ERR_INV_OPP
<E>	cmd_seq	M_CME_ERR_INV_OPP

History: 22.02.2000 DAK Initial

4.33 write phonebook entries "+CPBW" (ACIATI396 – ACIATI410)

4.33.1 ACIATI396: getting supported location ranges of phb storage

Description:

Select phonebook memory storrage, getting supported location ranges of phb storage

Preamble:

ACIATI343A

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CPBS="..")     |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CBPW="")      |                            |
      *==========================>*                            |
(4)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CPBS_S
	cmd_seq	C_CPBS_LD
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CPBW_T
	cmd_seq	C_CPBW_T
(4) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History:	27.01.2000	DAK	Initial

4.33.2 ACIATI397: getting supported location ranges of phb storage

Description:

Select a FDN or BDN Phonebook memory storrage and write in it

Variants:

<A>...<B>

Preamble:

<A> ACIATI343E
<B> ACIATI343A

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CPBS="..")     |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |         (cmd: OK )         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CPBS?)       |                            |
      *==========================>*                            |
(4)   |         ACI_CMD_IND        |                            |
      |     (cmd: ACI_CMD_IND )    |                            |
      *<==========================*                            |
(5)   |         ACI_CMD_IND        |                            |
      |         (cmd: OK )         |                            |
      *<==========================*                            |
(6)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CBPW="")      |                            |
      *==========================>*                            |
(7)   |         ACI_CMD_IND        |                            |
      |    (cmd: PIN2 required)    |                            |
      *<==========================*                            |
(8)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CPIN=1234)     |                            |
      *==========================>*                            |
(9)   |                            |     SIM_VERIFY_PIN_REQ     |
      |                            *==========================>*
(10)  |                            |     SIM_VERIFY_PIN_CNF     |
      |                            *<==========================*
(11)  |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
(12)  |         ACI_CMD_REQ        |                            |
      |       (cmd: +CBPW="")      |                            |
      *==========================>*                            |
(13)  |                            |   SIM_UPDATE_RECORD_REQ    |
      |                            *==========================>*
(14)  |                            |   SIM_UPDATE_RECORD_CNF    |
      |                            *<==========================*
(15)  |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CPBS_S
<A>	cmd_seq	C_CPBS_FD
<B>	cmd_seq	C_CPBS_BD
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CPBS_Q
	cmd_seq	C_CPBS_Q
(4) ACI_CMD_IND		
<A>	cmd_len	LM_CPBS_FD
<A>	cmd_seq	M_CPBS_FD
<B>	cmd_len	LM_CPBS_BD
<B>	cmd_seq	M_CPBS_BD
(5) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(6) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CPBW_T
	cmd_seq	C_CPBW_T
(7) ACI_CMD_IND		
	cmd_len	LM_CME_ERR_PIN2_REQ
	cmd_seq	M_CME_ERR_PIN2_REQ
(8) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CPIN_1234
	cmd_seq	C_PLUS_CPIN_1234
(9) SIM_VERIFY_PIN_REQ		
	source	SRC_MMI
	pin	A_PIN_1234
	pin_id	PHASE_2_PIN_2
(10) SIM_VERIFY_PIN_CNF		
	error	SIM_NO_ERROR
	pin_id	PHASE_2_PIN_2
	pin_cnt	NUM_1
	puk_cnt	NUM_10
	pin2_cnt	NUM_3
	puk2_cnt	NUM_10
(11) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(12) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CPBW_T
	cmd_seq	C_CPBW_T
(13) SIM_UPDATE_RECORD_REQ		
	source	SRC_MMI
<A>	datafield	SIM_FDN
<B>	datafield	SIM_BDN
<A>	record	NUM_3
<B>	record	NUM_2
<A>	length	LDATA_FDN
<B>	length	LDATA_BDN
	linear_data	NOT_USED
(14) SIM_UPDATE_RECORD_CNF		
<A>	datafield	SIM_FDN

<B>	datafield	SIM_BDN
<A>	record	NUM_3
<B>	record	NUM_2
	error	SIM_NO_ERROR

(15) ACI_CMD_IND

	cmd_len	LM_OK
	cmd_seq	M_OK

History: 26.01.01 ENZ Initial

4.34 Massage Format "+CMGF"(ACIATI411 – ACIATI420)

4.34.1 ACIATI411: Query Message Format

Description:

The message format is queried successfully. If the Target is compiled with option SMS_PDU_SUPPORT, then the initial response is 0 (PDU mode), otherwise 1 (TEXT mode). So, one variant always fails.

Variants:

<A>...<B>

Preamble:

<A>ACIATI413
<B>ACIATI412

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CMGF)        |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |         (msg: CMGF)        |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMGF_QUERY
	cmd_seq	C_CMGF_QUERY
(2) ACI_CMD_IND		
<A>	cmd_len	LM_CMGF_QUERY_PDU
<B>	cmd_len	LM_CMGF_QUERY_TXT
<A>	cmd_seq	M_CMGF_QUERY_PDU
<B>	cmd_seq	M_CMGF_QUERY_TXT
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 15.12.98 SAB Initial
17.03.2000 FK Variants introduced

4.34.2 ACIATI412: Set Text Mode Format

Description:

The message format is queried with the preamble (PDU Mode). Then it is changed to Text mode and requested again. The preamble is only correct, if the target is compiled with SMS_PDU_SUPPORT.

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |        (cmd: CMGF=1)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CMGF)        |                            |
      *==========================>*                            |
(4)   |         ACI_CMD_IND        |                            |
      |         (msg: CMGF)        |                            |
      *<==========================*                            |
(5)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGF_SET_TXT
		cmd_seq	C_CMGF_SET_TXT
(2)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK
(3)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGF_QUERY
		cmd_seq	C_CMGF_QUERY
(4)	ACI_CMD_IND		
		cmd_len	LM_CMGF_QUERY_TXT
		cmd_seq	M_CMGF_QUERY_TXT
(5)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History: 17.03.2000 FK Initial

4.34.3 ACIATI413: Set PDU Mode Format

Description:

The message format is queried (Text Mode). Then it is changed to PDU mode and requested again. Additional an SCA is selected which differs from the SCA of the PDU commands.

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |       (cmd: CMGF=0)        |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
(3)   |        ACI_CMD_REQ         |                            |
      |        (cmd: CMGF)         |                            |
      *==========================>*                            |
(4)   |        ACI_CMD_IND         |                            |
      |        (msg: CMGF)         |                            |
      *<==========================*                            |
(5)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGF_SET_PDU
		cmd_seq	C_CMGF_SET_PDU
(2)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK
(3)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGF_QUERY
		cmd_seq	C_CMGF_QUERY
(4)	ACI_CMD_IND		
		cmd_len	LM_CMGF_QUERY_PDU
		cmd_seq	M_CMGF_QUERY_PDU
(5)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History:	01.12.99	LE	Initial
	16.03.2000	FK	Select SCA added
	17.03.2000	FK	No query before set

4.35 Select message service "+CSMS"(ACIATI421 – ACIATI430)

4.35.1 ACIATI421: listing of supported modes "+CSMS=?"

Description:

select message service, list of supported types

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: +CSMS=?)        |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |     (cmd: +CSMS: ...)      |                            |
      *<==========================*                            |
(3)   |        ACI_CMD_IND         |                            |
      |         (cmd: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSMS_T
	cmd_seq	C_CSMS_T
(2) ACI_CMD_IND		
	cmd_len	LM_CSMS_T
	cmd_seq	M_CSMS_T
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 28.10.99 DAK Initial

4.35.2 ACIATI422: Select Message Service

Description:

The message service will be selected successfully.

Preamble:

ACIATI412

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |        (cmd: CSMS)         |                            |
      *==========================>*                            |
(2)   |                            |    MNSMS_CONFIGURE_REQ     |
      |                            *==========================>*
(3)   |        ACI_CMD_IND         |                            |
      |        (msg: CSMS)         |                            |
      *<==========================*                            |
(4)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSMS_PHASE_2
	cmd_seq	C_CSMS_PHASE_2
(2) MNSMS_CONFIGURE_REQ		
	pref_mem_3	NOT_USED
	mt	MT0
	ds	DS0
	mhc	SMS_MHC_PH2
(3) ACI_CMD_IND		
	cmd_len	LM_CSMS_PHASE_2
	cmd_seq	M_CSMS_PHASE_2
(4) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 15.12.98 SAB Initial

4.35.3 ACIATI423: Query Selected Message Service

Description:

The selected message service is queried successfully.

Preamble:

ACIATI412

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CSMS)        |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |         (msg: CSMS)        |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CSMS_QUERY
		cmd_seq	C_CSMS_QUERY
(2)	ACI_CMD_IND		
		cmd_len	LM_CSMS_QUERY
		cmd_seq	M_CSMS_QUERY
(3)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History: 15.12.98 SAB Initial

4.36 Preferred Message Storage "+CPMS"(ACIATI431 – ACIATI440)

4.36.1 ACIATI431: Select Preferred Message Storage

Description:

Preferred Message Storage will be selected successfully.

Preamble:

ACIATI412

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |        (cmd: CPMS)         |                            |
      *==========================>*                            |
(2)   |                            |       MNSMS_INFO_REQ       |
      |                            *==========================>*
(3)   |                            |       MNSMS_INFO_CNF       |
      |                            *<==========================*
(4)   |        ACI_CMD_IND         |                            |
      |        (msg: CPMS)         |                            |
      *<==========================*                            |
(5)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
(6)   |        ACI_CMD_REQ         |                            |
      |        (cmd: CPMS)         |                            |
      *==========================>*                            |
(7)   |                            |       MNSMS_INFO_REQ       |
      |                            *==========================>*
(8)   |                            |       MNSMS_INFO_CNF       |
      |                            *<==========================*
(9)   |        ACI_CMD_IND         |                            |
      |       (msg: CPMS=…)        |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CPMS_SET_SM_ME_SM
	cmd_seq	C_CPMS_SET_SM_ME_SM
(2) MNSMS_INFO_REQ		
	param	NOT_USED
(3) MNSMS_INFO_CNF		
	total_sim	TOTAL_255
	used_sim	USED_0
	status_sim	NOT_USED
	total_me	TOTAL_100
	used_me	USED_0
	status_me	NOT_USED

(4) ACI_CMD_IND

cmd_len	LM_CPMS_SET_SM_ME_SM
cmd_seq	M_CPMS_SET_SM_ME_SM

(5) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(6) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_CPMS_Quarry
cmd_seq	C_CPMS_Quarry

(7) MNSMS_INFO_REQ

param	NOT_USED

(8) MNSMS_INFO_CNF

total_sim	TOTAL_255
used_sim	USED_0
status_sim	NOT_USED
total_me	TOTAL_100
used_me	USED_0
status_me	NOT_USED

(9) ACI_CMD_IND

cmd_len	LM_CPMS_SET_SM_ME_SM_Querry
cmd_seq	M_CPMS_SET_SM_ME_SM_Querry

History: 11.12.98 SAB Initial

4.36.2 ACIATI432: Select Preferred Message Storage

Description:

Preferred Message Storage will be selected successfully.

Preamble:

ACIATI412

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |        (cmd: CPMS)         |                            |
      *==========================>*                            |
(2)   |                            |       MNSMS_INFO_REQ       |
      |                            *==========================> *
(3)   |                            |       MNSMS_INFO_CNF       |
      |                            *<========================== *
(4)   |        ACI_CMD_IND         |                            |
      |        (msg: CPMS)         |                            |
      *<==========================*                            |
(5)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
(6)   |        ACI_CMD_REQ         |                            |
      |        (cmd: CPMS)         |                            |
      *==========================>*                            |
(7)   |                            |       MNSMS_INFO_REQ       |
      |                            *==========================> *
(8)   |                            |       MNSMS_INFO_CNF       |
      |                            *<========================== *
(9)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CPMS_SET_SM_SM_SM
	cmd_seq	C_CPMS_SET_SM_SM_SM
(2) MNSMS_INFO_REQ		
	param	NOT_USED
(3) MNSMS_INFO_CNF		
	total_sim	TOTAL_255
	used_sim	USED_0
	status_sim	NOT_USED
	total_me	TOTAL_100
	used_me	USED_0
	status_me	NOT_USED
(4) ACI_CMD_IND		
	cmd_len	LM_CPMS_SET_SM_SM_SM
	cmd_seq	M_CPMS_SET_SM_SM_SM

(5) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(6) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_CPMS_Quarry
cmd_seq	C_CPMS_Quarry

(7) MNSMS_INFO_REQ

param	NOT_USED

(8) MNSMS_INFO_CNF

total_sim	TOTAL_255
used_sim	USED_0
status_sim	NOT_USED
total_me	TOTAL_100
used_me	USED_0
status_me	NOT_USED

(9) ACI_CMD_IND

cmd_len	LM_CPMS_SET_SM_SM_SM_Querry
cmd_seq	M_CPMS_SET_SM_SM_SM_Querry

History: 11.12.98 SAB Initial

4.36.3 ACIATI433: Select Preferred Message Storage

Description:

Preferred Message Storage will be selected successfully.

Preamble:

ACIATI412

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CPMS)        |                            |
      *==========================>*                            |
(2)   |                            |       MNSMS_INFO_REQ       |
      |                            *==========================> *
(3)   |                            |       MNSMS_INFO_CNF       |
      |                            *<========================== *
(4)   |         ACI_CMD_IND        |                            |
      |       (msg: CPMS=..)       |                            |
      *<==========================*                            |
(5)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(6)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CPMS?)       |                            |
      *==========================>*                            |
(7)   |                            |       MNSMS_INFO_REQ       |
      |                            *==========================> *
(8)   |                            |       MNSMS_INFO_CNF       |
      |                            *<========================== *
(9)   |         ACI_CMD_IND        |                            |
      |       (msg: CPMS=..)       |                            |
      *<==========================*                            |
(10)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CPMS_SET_ME_ME_ME
	cmd_seq	C_CPMS_SET_ME_ME_ME
(2) MNSMS_INFO_REQ		
	param	NOT_USED
(3) MNSMS_INFO_CNF		
	total_sim	TOTAL_255
	used_sim	USED_0
	status_sim	NOT_USED
	total_me	TOTAL_100
	used_me	USED_0
	status_me	NOT_USED

(4) ACI_CMD_IND

cmd_len	LM_CPMS_SET_ME_ME_ME
cmd_seq	M_CPMS_SET_ME_ME_ME

(5) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(6) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_CPMS_Quarry
cmd_seq	C_CPMS_Quarry

(7) MNSMS_INFO_REQ

param	NOT_USED

(8) MNSMS_INFO_CNF

total_sim	TOTAL_255
used_sim	USED_0
status_sim	NOT_USED
total_me	TOTAL_100
used_me	USED_0
status_me	NOT_USED

(9) ACI_CMD_IND

cmd_len	LM_CPMS_SET_ME_ME_ME_Querry
cmd_seq	M_CPMS_SET_ME_ME_ME_Querry

(10) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History: 11.12.98 SAB Initial

4.36.4 ACIATI434: Set Interface, Service and Memory

Description:

set initial configuration for SMS

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CMGF=1)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CSMS=1)       |                            |
      *==========================>*                            |
(4)   |         ACI_CMD_IND        |                            |
      |        (msg: ERROR)        |                            |
      *<==========================*                            |
(5)   |         ACI_CMD_REQ        |                            |
      | (cmd: +CPMS="SM","SM","SM") |                            |
      *==========================>*                            |
(6)   |                            |       MNSMS_INFO_REQ       |
      |                            *==========================> *
(7)   |                            |       MNSMS_INFO_CNF       |
      |                            *<========================== *
(8)   |         ACI_CMD_IND        |                            |
      |      (msg: +CPMS: ...)     |                            |
      *<==========================*                            |
(9)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMGF_SET_TXT
	cmd_seq	C_CMGF_SET_TXT
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CSMS_FULL
	cmd_seq	C_PLUS_CSMS_FULL
(4) ACI_CMD_IND		
	cmd_len	LM_ERROR
	cmd_seq	M_ERROR
(5) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CPMS_SET_SM_SM_SM
	cmd_seq	C_CPMS_SET_SM_SM_SM
(6) MNSMS_INFO_REQ		
	param	DUMMY
(7) MNSMS_INFO_CNF		
	total_sim	MAX_SIM_DEF

	used_sim	USED_SIM_DEF
	status_sim	SIM_STATUS_DEF
	total_me	MAX_ME_DEF
	used_me	USED_ME_DEF
	status_me	ME_STATUS_DEF
(8) ACI_CMD_IND		
	cmd_len	LC_PLUS_CPMS_SM3X_DEF
	cmd_seq	C_PLUS_CPMS_SM3X_DEF
(9) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 08-Nov-99 FK Initial

4.37 Service Centre Address "+CSCA" and "+CSMP" (ACIATI441 – ACIATI450)

4.37.1 ACIATI441: Select Service Center Address

Description:

The service center address will be selected successfully.

Preamble:

ACIATI412

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CSCA)        |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCA_BOTH_CORRECT
	cmd_seq	C_CSCA_BOTH_CORRECT
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 11.12.98 SAB Initial

4.37.2 ACIATI442: Query Service Center Address

Description:

The service center addres is queried successfully.

Preamble:

ACIATI441

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CSMP)        |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |        (cmd: CSCA?)        |                            |
      *==========================>*                            |
(4)   |         ACI_CMD_IND        |                            |
      |         (msg: CSCA)        |                            |
      *<==========================*                            |
(5)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSMP_ALL_CORRECT
	cmd_seq	C_CSMP_ALL_CORRECT
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCA_QUERY
	cmd_seq	C_CSCA_QUERY
(4) ACI_CMD_IND		
	cmd_len	LM_CSCA_QUERY
	cmd_seq	M_CSCA_QUERY
(5) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 15.12.98 SAB Initial

4.37.3 ACIATI443: Select Service Center Address

Description:

The service center address will be selected with 22 digits. The service center address can consist of MAX_NUM_LEN (EQ 20) characters, therefore an error will be returned.

Preamble:

ACIATI412

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CSCA)        |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |         (msg: ERROR)       |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCA_MAX_NUM_LEN
	cmd_seq	C_CSCA_MAX_NUM_LEN
(2) ACI_CMD_IND		
	cmd_len	LM_ERROR
	cmd_seq	M_ERROR

History: 11.12.98 SAB Initial

4.37.4 ACIATI444: Set Service Center Address and Text Mode Parameters

Description:

set general parameters for MO_SM

Preamble:

ACIATI451

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CSCA=...)      |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CSMP=...)      |                            |
      *==========================>*                            |
(4)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CSCA_DEF
	cmd_seq	C_PLUS_CSCA_DEF
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CSMP_DEF
	cmd_seq	C_PLUS_CSMP_DEF
(4) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 08-Nov-99 FK Initial

4.37.5 ACIATI445: Set Service Center Address and Special Text Mode Parameters

Description:

set general parameters for MO_SM with absolut VP

Preamble:

ACIATI451

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CSCA=...)      |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CSMP=...)      |                            |
      *==========================>*                            |
(4)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CSCA_DEF
	cmd_seq	C_PLUS_CSCA_DEF
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CSMP_SPEC1
	cmd_seq	C_PLUS_CSMP_SPEC1
(4) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 10-Nov-99 FK Initial

4.38 Message Receiving and Reading Commands "+CNMI" (ACIATI451 – ACIATI460)

4.38.1 ACIATI451: Set Default Handling of Unsolicited Responses

Description:

MT_SMs are indicates with unsolicited response +CMT

Preamble:

ACIATI434

```
     APL                           ACI                           PS
      |                             |                             |
(1)   |         ACI_CMD_REQ         |                             |
      |       (cmd: +CNMI=...)      |                             |
      *===========================> *                             |
(2)   |                             |    MNSMS_CONFIGURE_REQ      |
      |                             *===========================> *
(3)   |         ACI_CMD_IND         |                             |
      |          (msg: OK)          |                             |
      *<===========================*                             |
      |                             |                             |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CNMI_CMTI
	cmd_seq	C_PLUS_CNMI_CMTI
(2) MNSMS_CONFIGURE_REQ		
	pref_mem_3	MEM_SM
	mt	MT1
	ds	DS0
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 08-Nov-99 FK Initial

4.38.2 ACIATI452: listing of supported modes "+CNMI=?"

Description:

new message ID to TE, test supported modes

Preamble:

ACIATI002

```
     APL                           ACI                           PS
      |                             |                             |
(1)   |         ACI_CMD_REQ         |                             |
      |        (cmd: +CNNI=?)       |                             |
      *===========================> *                             |
(2)   |         ACI_CMD_IND         |                             |
      |      (cmd: +CNMI: ...)      |                             |
      *<===========================*                             |
(3)   |         ACI_CMD_IND         |                             |
      |          (cmd: OK)          |                             |
      *<===========================*                             |
      |                             |                             |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CNMI_T
	cmd_seq	C_CNMI_T

(2) ACI_CMD_IND		
	cmd_len	LM_CNMI_T
	cmd_seq	M_CNMI_T
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 23.11.99 DAK Initial

4.38.3 ACIATI453: test initial settings "+CNMI?"

Description:

new message ID to TE, test initial settings

Preamble:

ACIATI434

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |       (cmd: +CNNI?)        |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |     (cmd: +CNMI: ...)      |                            |
      *<==========================*                            |
(3)   |        ACI_CMD_IND         |                            |
      |         (cmd: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CNMI_Q
	cmd_seq	C_CNMI_Q
(2) ACI_CMD_IND		
	cmd_len	LM_CNMI_Q
	cmd_seq	M_CNMI_Q
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 23.11.99 DAK Initial

4.38.4 ACIATI454: test initial settings "+CNMI=..."

Description:

new message ID to TE, setting modes

Preamble:

ACIATI002

Variants:

<A>...<I>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CNNI=...)      |                            |
      *==========================>*                            |
(2)   |                            |    MNSMS_CONFIGURE_REQ     |
      |                            *==========================>*
(3)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
(4)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CNMI?)       |                            |
      *==========================>*                            |
(5)   |         ACI_CMD_IND        |                            |
      |      (cmd: +CNMI:...)      |                            |
      *<==========================*                            |
(6)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CNMI_S
<A>	cmd_seq	C_CNMI_S0
<B>	cmd_seq	C_CNMI_S1
<C>	cmd_seq	C_CNMI_S2
<D>	cmd_seq	C_CNMI_S3
<E>	cmd_seq	C_CNMI_S4
<F>	cmd_seq	C_CNMI_S5
<G>	cmd_seq	C_CNMI_S6
<H>	cmd_seq	C_CNMI_S7
<I>	cmd_seq	C_CNMI_S8
(2) MNSMS_CONFIGURE_REQ		
	pref_mem_3	NUM_3
<A>	mt	NUM_0
<A>	ds	NUM_0
<B>	mt	NUM_0
<B>	ds	NUM_0
<C>	mt	NUM_0
<C>	ds	NUM_0
<D>	mt	NUM_1
<D>	ds	NUM_0
<E>	mt	NUM_2
<E>	ds	NUM_0
<F>	mt	NUM_3
<F>	ds	NUM_0
<G>	mt	NUM_0
<G>	ds	NUM_0
<H>	mt	NUM_0
<H>	ds	NUM_1
<I>	mt	NUM_0
<I>	ds	NUM_0

(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(4) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CNMI_Q
	cmd_seq	C_CNMI_Q
(5) ACI_CMD_IND		
	cmd_len	LM_CNMI_Q
<A>	cmd_seq	M_CNMI_Q
<B>	cmd_seq	M_CNMI_Q1
<C>	cmd_seq	M_CNMI_Q2
<D>	cmd_seq	M_CNMI_Q3
<E>	cmd_seq	M_CNMI_Q4
<F>	cmd_seq	M_CNMI_Q5
<G>	cmd_seq	M_CNMI_Q6
<H>	cmd_seq	M_CNMI_Q7
<I>	cmd_seq	M_CNMI_Q8
(6) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 23.11.99 DAK Initial

4.38.5 ACIATI455: trying to set illegal modes "+CNMI=..."

Description:

new message ID to TE, trying to set illegal modes

Preamble:

ACIATI002

Variants:

<A>...<F>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: +CNNI=...)      |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |      (cmd: CMS ERROR)      |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CNMI_S
<A>	cmd_seq	C_CNMI_S10
<B>	cmd_seq	C_CNMI_S11
<C>	cmd_seq	C_CNMI_S12
<D>	cmd_seq	C_CNMI_S13
<E>	cmd_seq	C_CNMI_S14
<F>	cmd_seq	C_CNMI_S15

(2) ACI_CMD_IND

<A>	cmd_len	LM_CMS_ERR_INV_OPP
<A>	cmd_seq	M_CMS_ERR_INV_OPP
<B>	cmd_len	LM_CMS_ERR_UNKN
<B>	cmd_seq	M_CMS_ERR_UNKN
<C>	cmd_len	LM_CMS_ERR_UNKN
<C>	cmd_seq	M_CMS_ERR_UNKN
<D>	cmd_len	LM_CMS_ERR_UNKN
<D>	cmd_seq	M_CMS_ERR_UNKN
<E>	cmd_len	LM_CMS_ERR_UNKN
<E>	cmd_seq	M_CMS_ERR_UNKN
<F>	cmd_len	LM_CMS_ERR_INV_OPP
<F>	cmd_seq	M_CMS_ERR_INV_OPP

History: 23.11.99 DAK Initial

4.38.6 ACIATI456: Setting New Message Indication

Description:

Successfull setting of the procedures, how receiving of new messages from network is indicated.

Preamble:

ACIATI442

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CNMI)        |                            |
      *==========================>*                            |
(2)   |                            |    MNSMS_CONFIGURE_REQ     |
      |                            *==========================>*
(3)   |                            |        MMI_CBCH_REQ        |
      |                            *==========================>*
(4)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CNMI_ON
		cmd_seq	C_CNMI_ON
(2)	MNSMS_CONFIGURE_REQ		
		pref_mem_3	NOT_USED
		mt	MT2
		ds	DS1
		mhc	SMS_MHC_PH2
(3)	MMI_CBCH_REQ		
		msg_id	NOT_USED
		dcs_id	NOT_USED
		modus	NOT_USED
(4)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History: 18.02.2000 FK Initial

4.38.7 ACIATI457: New Message Indication

Description:

Successfull setting of the procedures, how receiving of new messages from network is indicated.

Preamble:

ACIATI442

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CNMI)        |                            |
      *==========================>*                            |
(2)   |                            |    MNSMS_CONFIGURE_REQ     |
      |                            *==========================>*
(3)   |                            |        MMI_CBCH_REQ        |
      |                            *==========================>*
(4)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CNMI_ON
		cmd_seq	C_CNMI_ON
(2)	MNSMS_CONFIGURE_REQ		
		pref_mem_3	NOT_USED
		mt	MT2
		ds	DS1
		mhc	SMS_MHC_PH2
(3)	MMI_CBCH_REQ		
		msg_id	CBM_MID_DEF
		dcs_id	CBM_DCS_DEF
		modus	CBCH_ACCEPT
(4)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History: 15.12.98 SAB Initial

4.39 List Messages "+CMGL" (ACIATI461 – ACIATI470)

4.39.1 ACIATI461: listing of supported modes "+CMGL=?"

Description:

list messages , test supported <stat>s

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: +CMGL=?)        |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |     (cmd: +CMGL: ...)      |                            |
      *<==========================*                            |
(3)   |        ACI_CMD_IND         |                            |
      |         (cmd: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMGL_T
	cmd_seq	C_CMGL_T
(2) ACI_CMD_IND		
	cmd_len	LM_CMGL_T
	cmd_seq	M_CMGL_T
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 24.11.99 DAK Initial

4.39.2 ACIATI462: trying to performe query command "+CMGL?"

Description:

list messages, trying to performe query command

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: +CMGL?)         |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |     (cmd: CMS ERROR)       |                            |
```

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

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGL_Q
		cmd_seq	C_CMGL_Q
(2)	ACI_CMD_IND		
		cmd_len	LM_CMS_ERR_INV_OPP
		cmd_seq	M_CMS_ERR_INV_OPP

History: 24.11.99 DAK Initial

4.39.3 ACIATI463: get message lists (mobile orinated)"+CMGL?" !!! non finished !!!

Description:

list messages, get message lists

Preamble:

ACIATI412

Variants:

<A>...<F>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |     (cmd: +CMGL[=...])     |                            |
      * ========================== > *                          |
(2)   |                            |       MNSMS_INFO_REQ       |
      |                            * ========================== > *
(3)   |                            |       MNSMS_INFO_CNF       |
      |                            * <========================== *
(4)   |                            |       MNSMS_READ_REQ       |
      |                            * ========================== > *
(5)   |                            |        MNSMS_MO_IND        |
      |                            * <========================== *
(6)   |                            |       MNSMS_READ_REQ       |
      |                            * ========================== > *
(7)   |                            |        MNSMS_MO_IND        |
      |                            * <========================== *
(8)   |        ACI_CMD_IND         |                            |
      |         (cmd: OK)          |                            |
      * <========================== *                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
<A>		cmd_len	LC_CMGL_S0
<A>		cmd_seq	C_CMGL_S0
<B>		cmd_len	LC_CMGL_S1
<B>		cmd_seq	C_CMGL_S1

<C>	cmd_len	LC_CMGL_S1
<C>	cmd_seq	C_CMGL_S2
<D>	cmd_len	LC_CMGL_S1
<D>	cmd_seq	C_CMGL_S3
<E>	cmd_len	LC_CMGL_S1
<E>	cmd_seq	C_CMGL_S4
<F>	cmd_len	LC_CMGL_S1
<F>	cmd_seq	C_CMGL_S5
(2) MNSMS_INFO_REQ		
	param	NUM_82
(3) MNSMS_INFO_CNF		
	total_sim	NUM_2
	used_sim	NUM_1
	status_sim	SMS_RECORD_FREE
	total_me	NUM_2
	used_me	NUM_1
	status_me	SMS_RECORD_FREE
(4) MNSMS_READ_REQ		
	mem_type	NUM_3
	read_mode	NUM_0
	rec_num	NUM_1
(5) MNSMS_MO_IND		
	status	NUM_1
	dest_addr	NOT_USED
	sc_addr	NOT_USED
	prot_id	NUM_0
	dcs	NUM_0
	msg_type	NOT_USED
	vp_rel	NOT_USED
	vp_abs	NOT_USED
	sms_msg	NOT_USED
(6) MNSMS_READ_REQ		
	mem_type	NUM_3
	read_mode	NUM_0
	rec_num	NUM_2
(7) MNSMS_MO_IND		
	status	NUM_0
	dest_addr	NOT_USED
	sc_addr	NOT_USED
	prot_id	NUM_0
	dcs	NUM_0
	msg_type	NOT_USED
	vp_rel	NOT_USED
	vp_abs	NOT_USED
	sms_msg	NOT_USED
(8) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 24.11.99 DAK Initial

4.39.4 ACIATI464: trying to get listings for illegal <stat>s "+CMGL=..."

Description:

list messages , trying to get listings for illegal <stat>s

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: +CMGL=5)        |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |     (cmd: CMS ERROR)       |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGL_S1
		cmd_seq	C_CMGL_S9
(2)	ACI_CMD_IND		
		cmd_len	LM_CMS_ERR_INV_OPP
		cmd_seq	M_CMS_ERR_INV_OPP

History: 24.11.99 DAK Initial

4.40 Show text mode parameters "+CSDH" (ACIATI471 – ACIATI480)

4.40.1 ACIATI471: listing of supported modes "+CSDH=?"

Description:

show text mode parameters, test supported modes

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: +CSDH=?)        |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |   (cmd: +CSDH: (0,1))      |                            |
      *<==========================*                            |
(3)   |        ACI_CMD_IND         |                            |
      |         (cmd: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSDH_T
	cmd_seq	C_CSDH_T
(2) ACI_CMD_IND		
	cmd_len	LM_CSDH_T
	cmd_seq	M_CSDH_T
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 02.11.99 DAK Initial

4.40.2 ACIATI472: test initial settings "+CSDH?"

Description:

show text mode parameters, test initial settings

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CSDH?)       |                            |
      * ========================== *                            |
(2)   |         ACI_CMD_IND        |                            |
      |       (cmd: +CSDH: 0)      |                            |
      * <========================== *                            |
(3)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      * <========================== *                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSDH_Q
	cmd_seq	C_CSDH_Q
(2) ACI_CMD_IND		
	cmd_len	LM_CSDH_Q
	cmd_seq	M_CSDH_Q1
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 02.11.99 DAK Initial

4.40.3 ACIATI473: setting modes and test whether setted "+CSDH=..."

Description:

show text mode parameters, setting modes and test whetther they were setted

Preamble:

ACIATI002

Variants:

<A>....<B>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CSDH=...)     |                            |
      * ========================== *                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      * <========================== *                            |
(3)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CSDH?)       |                            |
      * ========================== *                            |
(4)   |         ACI_CMD_IND        |                            |
      |      (cmd: +CSDH: ...)     |                            |
      * <========================== *                            |
(5)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      * <========================== *                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSDH_S
<A>	cmd_seq	C_CSDH_S0
<B>	cmd_seq	C_CSDH_S1
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSDH_Q
	cmd_seq	C_CSDH_Q
(4) ACI_CMD_IND		
	cmd_len	LM_CSDH_Q
<A>	cmd_seq	M_CSDH_Q0
<B>	cmd_seq	M_CSDH_Q1
(5) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 02.11.99 DAK Initial

4.40.4 ACIATI474: trying to set illegal modes "+CSDH=2"

Description:

show text mode parameters, setting illegal modes

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: +CSDH=2)        |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |        (cmd: ERROR)        |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSDH_S
	cmd_seq	C_CSDH_S9
(2) ACI_CMD_IND		
	cmd_len	LM_CMS_ERR_INV_OPP
	cmd_seq	M_CMS_ERR_INV_OPP

History: 02.11.99 DAK Initial

4.41 Send Massage from Storage "+CMSS" (ACIATI481 – ACIATI490)

4.41.1 ACIATI481: Send Message From Memory

Description:

A short message from memory is sent successfully. The SCA with the stored message has to be used.

Preamble:

ACIATI412

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |        (cmd: CSCA)         |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
(3)   |        ACI_CMD_REQ         |                            |
      |        (cmd: CMSS)         |                            |
      *==========================>*                            |
(4)   |                            |       MNSMS_READ_REQ       |
      |                            *==========================> *
(5)   |                            |        MNSMS_MO_IND        |
      |                            *<========================== *
(6)   |                            |      MNSMS_SUBMIT_REQ      |
      |                            *==========================> *
(7)   |                            |      MNSMS_REPORT_IND      |
      |                            *<========================== *
(8)   |        ACI_CMD_IND         |                            |
      |        (msg: CMSS)         |                            |
      *<==========================*                            |
(9)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CSCA_ALT
		cmd_seq	C_CSCA_ALT
(2)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK
(3)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMSS_SIM_2
		cmd_seq	C_CMSS_SIM_2
(4)	MNSMS_READ_REQ		
		mem_type	MEM_SM

	read_mode	READ_PREVIEW
	rec_num	REC_NUM_02
(5) MNSMS_MO_IND		
	status	SIM_MO_STATUS
	dest_addr	DA_98765
	sc_addr	SA_12345
	prot_id	PID_SM_TYPE_0
	dcs	DCS_1
	msg_type	MSG_MO_1
	vp_rel	NOT_USED
	vp_abs	NOT_USED
	sms_msg	SMS_MO_CONTENT
	msg_ref	NOT_PRESENT_8BIT
(6) MNSMS_SUBMIT_REQ		
	dest_addr	DA_98765
	sc_addr	SA_12345
	prot_id	PID_SM_TYPE_0
	dcs	DCS_1
	msg_type	MSG_MO_1
	vp_rel	NOT_USED
	vp_abs	NOT_USED
	sms_msg	SMS_MO_CONTENT
	mem_type	MEM_SM
	rec_num	REC_NUM_02
(7) MNSMS_REPORT_IND		
	cause	CS_OK
	msg_ref	MSG_REF_02
(8) ACI_CMD_IND		
	cmd_len	LM_CMSS_MSG_REF_2
	cmd_seq	M_CMSS_MSG_REF_2
(9) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 16.12.98 SAB Initial
17.04.2000 FK Settinf of SCA to control correct handling

4.41.2 ACIATI482: Send Message From Memory

Description:

A short message from memory is sent successfully. The SCA with the stored message has to be used.

Preamble:

ACIATI413

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CMSS)        |                            |
      *==========================>*                            |
(2)   |                            |       MNSMS_READ_REQ       |
      |                            *==========================> *
(3)   |                            |        MNSMS_MO_IND        |
      |                            *<========================== *
(4)   |                            |      MNSMS_SUBMIT_REQ      |
      |                            *==========================> *
(5)   |                            |      MNSMS_REPORT_IND      |
      |                            *<========================== *
(6)   |         ACI_CMD_IND        |                            |
      |         (msg: CMSS)        |                            |
      *<==========================*                            |
(7)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMSS_SIM_2
		cmd_seq	C_CMSS_SIM_2
(2)	MNSMS_READ_REQ		
		mem_type	MEM_SM
		read_mode	READ_PREVIEW
		rec_num	REC_NUM_02
(3)	MNSMS_MO_IND		
		status	SIM_MO_STATUS
		dest_addr	DA_98765
		sc_addr	SA_12345
		prot_id	PID_SM_TYPE_0
		dcs	DCS_1
		msg_type	MSG_MO_1
		vp_rel	NOT_USED
		vp_abs	NOT_USED
		sms_msg	SMS_MO_CONTENT
		msg_ref	NOT_PRESENT_8BIT
(4)	MNSMS_SUBMIT_REQ		
		dest_addr	DA_98765

	sc_addr	SA_12345
	prot_id	PID_SM_TYPE_0
	dcs	DCS_1
	msg_type	MSG_MO_1
	vp_rel	NOT_USED
	vp_abs	NOT_USED
	sms_msg	SMS_MO_CONTENT
	mem_type	MEM_SM
	rec_num	REC_NUM_02
(5) MNSMS_REPORT_IND		
	cause	CS_OK
	msg_ref	MSG_REF_02
(6) ACI_CMD_IND		
	cmd_len	LM_CMSS_MSG_REF_2
	cmd_seq	M_CMSS_MSG_REF_2
(7) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 16.12.98 SAB Initial
14.04.2000 FK Primitive Change

4.42 Write Massage to Memory "+CMGW" (ACIATI491 – ACIATI510)

4.42.1 ACIATI491: Write Message

Description:

A short message will be successfully written to memory.

Preamble:

ACIATI442

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |        (cmd: CMGW)         |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |      (msg: CMGW edit)      |                            |
      *<==========================*                            |
(3)   |        ACI_CMD_REQ         |                            |
      |      (cmd: CMGW edit)      |                            |
      *==========================>*                            |
(4)   |                            |      MNSMS_STORE_REQ       |
      |                            *==========================> *
(5)   |                            |      MNSMS_REPORT_IND      |
      |                            *<========================== *
(6)   |        ACI_CMD_IND         |                            |
      |        (msg: CMGW)         |                            |
      *<==========================*                            |
(7)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value

(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMGW_WRITING
	cmd_seq	C_CMGW_WRITING
(2) ACI_CMD_IND		
	cmd_len	LM_EDIT
	cmd_seq	M_EDIT
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMGW_ABCDEFGHI
	cmd_seq	C_CMGW_ABCDEFGHI
(4) MNSMS_STORE_REQ		
	mem_type	MEM_SM
	rec_num	REC_NUM_00
	dest_addr	DA_654321
	sc_addr	SA_12345
	prot_id	PID_SM_TYPE_0
	dcs	DCS_DEF_ALPH
	msg_type	MSG_TYPE_1D
	vp_rel	NOT_USED
	vp_abs	VP_A9801071234564
	sms_msg	SM7_ABCDEFGHI
	status	STAT_REC_UNREAD
	msg_ref	NOT_PRESENT_8BIT
(5) MNSMS_REPORT_IND		
	cause	CS_OK
	msg_ref	REC_NUM_02
(6) ACI_CMD_IND		
	cmd_len	LM_CMGW_REC_NUM_2
	cmd_seq	M_CMGW_REC_NUM_2
(7) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 16.12.98 SAB Initial
14.04.2000 FK Primitive Change

4.42.2 ACIATI492: Receiving New Message Indication while Storing a Message

Description:

A short message will be successfully written to memory. During waiting for response a new message indication arrives

Preamble:

ACIATI456

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CMGW)        |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |      (msg: CMGW edit)      |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |      (cmd: CMGW edit)      |                            |
      *==========================>*                            |
(4)   |                            |      MNSMS_STORE_REQ       |
      |                            *==========================>*
(5)   |                            |      MNSMS_ALERT_IND       |
      |                            *<==========================*
(6)   |         ACI_CMD_IND        |                            |
      |         (msg: CMTI)        |                            |
      *<==========================*                            |
(7)   |                            |     MNSMS_REPORT_IND       |
      |                            *<==========================*
(8)   |         ACI_CMD_IND        |                            |
      |         (msg: CMGW)        |                            |
      *<==========================*                            |
(9)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(10)  |         ACI_CMD_REQ        |                            |
      |         (cmd: CMGW)        |                            |
      *==========================>*                            |
(11)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGW_WRITING
		cmd_seq	C_CMGW_WRITING
(2)	ACI_CMD_IND		
		cmd_len	LM_EDIT
		cmd_seq	M_EDIT
(3)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT

	cmd_len	LC_CMGW_ABCDEFGHI
	cmd_seq	C_CMGW_ABCDEFGHI
(4) MNSMS_STORE_REQ		
	mem_type	MEM_SM
	rec_num	REC_NUM_00
	dest_addr	DA_654321
	sc_addr	SA_12345
	prot_id	PID_SM_TYPE_0
	dcs	DCS_DEF_ALPH
	msg_type	MSG_TYPE_1D
	vp_rel	NOT_USED
	vp_abs	VP_A9801071234564
	sms_msg	SM7_ABCDEFGHI
	status	STAT_REC_UNREAD
	msg_ref	NOT_PRESENT_8BIT
(5) MNSMS_ALERT_IND		
	mem_type	MEM_SM
	rec_num	REC_NUM_01
	status	NOT_USED
(6) ACI_CMD_IND		
	cmd_len	LM_CMTI
	cmd_seq	M_CMTI_SM_01
(7) MNSMS_REPORT_IND		
	cause	CS_OK
	msg_ref	REC_NUM_02
(8) ACI_CMD_IND		
	cmd_len	LM_CMGW_REC_NUM_2
	cmd_seq	M_CMGW_REC_NUM_2
(9) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(10) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMGW_test
	cmd_seq	C_CMGW_test
(11) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 16.12.98 SAB Initial
14.04.2000 FK Primitive Change

4.42.3 ACIATI493: Store Short Message, Submit, no status, no validity period

Description:

A short message shall be stored on the preferred memory. It is a submit message without validity period. The command has no status..

Preamble:

ACIATI413

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |        (cmd: CMGW)         |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |          (prompt)          |                            |
      *<==========================*                            |
(3)   |        ACI_CMD_REQ         |                            |
      |      (cmd: CMGW edit)      |                            |
      *==========================>*                            |
(4)   |                            |      MNSMS_STORE_REQ       |
      |                            *==========================>*
(5)   |                            |     MNSMS_REPORT_IND       |
      |                            *<==========================*
(6)   |        ACI_CMD_IND         |                            |
      |        (msg: CMGW)         |                            |
      *<==========================*                            |
(7)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGW_S_NO_STAT_NO_VP
		cmd_seq	C_CMGW_S_NO_STAT_NO_VP
(2)	ACI_CMD_IND		
		cmd_len	LM_PROMPT
		cmd_seq	M_PROMPT
(3)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LM_CMT_PDU_STO_SENT_IN
		cmd_seq	M_CMT_PDU_STO_SENT_IN
(4)	MNSMS_STORE_REQ		
		mem_type	MEM_SM
		rec_num	REC_NUM_00
		dest_addr	DA_98765
		sc_addr	SA_12345
		prot_id	PID_SM_TYPE_0
		dcs	DCS_1

	msg_type	MSG_TYPE_01
	vp_rel	NOT_USED
	vp_abs	NOT_USED
	sms_msg	SM7_ABCDEFGHI
	status	STAT_STO_UNSENT
	msg_ref	NOT_PRESENT_8BIT
(5) MNSMS_REPORT_IND		
	cause	CS_OK
	msg_ref	MSG_REF_01
(6) ACI_CMD_IND		
	cmd_len	LM_CMGW_MSG_REF_1
	cmd_seq	M_CMGW_MSG_REF_1
(7) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 11.12.98 SAB Initial
14.04.2000 FK Primitive Change

4.42.4 ACIATI494: Store Short Message, Submit, no status, relative validity period

Description:

A short message shall be stored on the preferred memory. It is a submit message relative validity period. The command has no status..

Preamble:

ACIATI413

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |        (cmd: CMGW)         |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |          (prompt)          |                            |
      *<==========================*                            |
(3)   |        ACI_CMD_REQ         |                            |
      |      (cmd: CMGW edit)      |                            |
      *==========================>*                            |
(4)   |                            |      MNSMS_STORE_REQ       |
      |                            *==========================>*
(5)   |                            |     MNSMS_REPORT_IND       |
      |                            *<==========================*
(6)   |        ACI_CMD_IND         |                            |
      |        (msg: CMGW)         |                            |
      *<==========================*                            |
(7)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT

	cmd_len	LC_CMGW_S_NO_STAT_VP_REL
	cmd_seq	C_CMGW_S_NO_STAT_VP_REL
(2) ACI_CMD_IND		
	cmd_len	LM_PROMPT
	cmd_seq	M_PROMPT
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LM_CMT_PDU_STO_SENT_REL_IN
	cmd_seq	M_CMT_PDU_STO_SENT_REL_IN
(4) MNSMS_STORE_REQ		
	mem_type	MEM_SM
	rec_num	REC_NUM_00
	dest_addr	DA_98765
	sc_addr	SA_12345
	prot_id	PID_SM_TYPE_0
	dcs	DCS_1
	msg_type	MSG_TYPE_11
	vp_rel	VP_REL_23
	vp_abs	NOT_USED
	sms_msg	SM7_ABCDEFGHI
	status	STAT_STO_UNSENT
	msg_ref	NOT_PRESENT_8BIT
(5) MNSMS_REPORT_IND		
	cause	CS_OK
	msg_ref	MSG_REF_01
(6) ACI_CMD_IND		
	cmd_len	LM_CMGW_MSG_REF_1
	cmd_seq	M_CMGW_MSG_REF_1
(7) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 11.12.98 SAB Initial
14.04.2000 FK Primitive Change

4.42.5 ACIATI495: Store Short Message, Submit, no status, absolute validity period

Description:

A short message shall be stored on the preferred memory. It is a submit message with absolute validity period. The command has no status..

Preamble:

ACIATI413

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |        (cmd: CMGW)         |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |          (prompt)          |                            |
      *<==========================*                            |
(3)   |        ACI_CMD_REQ         |                            |
      |     (cmd: CMGW edit)       |                            |
      *==========================>*                            |
(4)   |                            |      MNSMS_STORE_REQ       |
      |                            *==========================>*
(5)   |                            |     MNSMS_REPORT_IND       |
      |                            *<==========================*
(6)   |        ACI_CMD_IND         |                            |
      |        (msg: CMGW)         |                            |
      *<==========================*                            |
(7)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGW_S_NO_STAT_VP_ABS
		cmd_seq	C_CMGW_S_NO_STAT_VP_ABS
(2)	ACI_CMD_IND		
		cmd_len	LM_PROMPT
		cmd_seq	M_PROMPT
(3)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LM_CMT_PDU_STO_SENT_ABS_IN
		cmd_seq	M_CMT_PDU_STO_SENT_ABS_IN
(4)	MNSMS_STORE_REQ		
		mem_type	MEM_SM
		rec_num	REC_NUM_00
		dest_addr	DA_98765
		sc_addr	SA_12345
		prot_id	PID_SM_TYPE_0
		dcs	DCS_1

	msg_type	MSG_TYPE_19
	vp_rel	NOT_USED
	vp_abs	VP_A9801071234564
	sms_msg	SM7_ABCDEFGHI
	status	STAT_STO_UNSENT
	msg_ref	NOT_PRESENT_8BIT
(5) MNSMS_REPORT_IND		
	cause	CS_OK
	msg_ref	MSG_REF_01
(6) ACI_CMD_IND		
	cmd_len	LM_CMGW_MSG_REF_1
	cmd_seq	M_CMGW_MSG_REF_1
(7) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 11.12.98 SAB Initial
14.04.2000 FK Primitive Change

4.42.6 ACIATI496: Store Short Message, Submit, Sto Unsent, no validity period

Description:

A short message shall be stored on the preferred memory. It is a submit message without validity period. The command has the status Sto Unsent.

Preamble:

ACIATI413

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |        (cmd: CMGW)         |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |          (prompt)          |                            |
      *<==========================*                            |
(3)   |        ACI_CMD_REQ         |                            |
      |      (cmd: CMGW edit)      |                            |
      *==========================>*                            |
(4)   |                            |      MNSMS_STORE_REQ       |
      |                            *==========================>*
(5)   |                            |     MNSMS_REPORT_IND       |
      |                            *<==========================*
(6)   |        ACI_CMD_IND         |                            |
      |        (msg: CMGW)         |                            |
      *<==========================*                            |
(7)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT

	cmd_len	LC_CMGW_S_STO_UNSENT_NO_VP
	cmd_seq	C_CMGW_S_STO_UNSENT_NO_VP
(2) ACI_CMD_IND		
	cmd_len	LM_PROMPT
	cmd_seq	M_PROMPT
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LM_CMT_PDU_STO_SENT_IN
	cmd_seq	M_CMT_PDU_STO_SENT_IN
(4) MNSMS_STORE_REQ		
	mem_type	MEM_SM
	rec_num	REC_NUM_00
	dest_addr	DA_98765
	sc_addr	SA_12345
	prot_id	PID_SM_TYPE_0
	dcs	DCS_1
	msg_type	MSG_TYPE_01
	vp_rel	NOT_USED
	vp_abs	NOT_USED
	sms_msg	SM7_ABCDEFGHI
	status	STAT_STO_UNSENT
	msg_ref	NOT_PRESENT_8BIT
(5) MNSMS_REPORT_IND		
	cause	CS_OK
	msg_ref	MSG_REF_01
(6) ACI_CMD_IND		
	cmd_len	LM_CMGW_MSG_REF_1
	cmd_seq	M_CMGW_MSG_REF_1
(7) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History:	11.12.98	SAB Initial
	14.04.2000	FK Primitive Change

4.42.7 ACIATI497: Writing of a Message, default Parameters

Description:

write a message with standard AT command +CMGW, which leads to NMSMS_STORE_REQ with default parameters set by commands +CSCA and +CSMP.

Preamble:

ACIATI445

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CMGW)        |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |         (msg: EDIT)        |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |      (cmd: CMGW edit)      |                            |
      *==========================>*                            |
(4)   |                            |       MNSMS_STORE_REQ      |
      |                            *==========================> *
(5)   |                            |      MNSMS_REPORT_IND      |
      |                            *<========================== *
(6)   |         ACI_CMD_IND        |                            |
      |         (msg: CMGW)        |                            |
      *<==========================*                            |
(7)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMGW_WRITE_DEF
	cmd_seq	C_CMGW_WRITE_DEF
(2) ACI_CMD_IND		
	cmd_len	LM_EDIT
	cmd_seq	M_EDIT
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMGW_ABCDEFGHI
	cmd_seq	C_CMGW_ABCDEFGHI
(4) MNSMS_STORE_REQ		
	mem_type	MEM_SM
	rec_num	SIM_RECORD_0
	dest_addr	DA_654321
	sc_addr	SA_017211963852
	prot_id	PID_SM_TYPE_0
	dcs	DCS_DEF_ALPH
	msg_type	MSG_TYPE_SUBMIT_DEF
	vp_rel	NOT_USED
	vp_abs	VP_A9801071234564
	sms_msg	SM7_ABCDEFGHI
	status	SIM_MO_STATUS
(5) MNSMS_REPORT_IND		
	cause	CS_OK
	msg_ref	SIM_RECORD_1
(6) ACI_CMD_IND		
	cmd_len	LM_CMGW_REC_NUM_1
	cmd_seq	M_CMGW_REC_NUM_1

(7) ACI_CMD_IND

	cmd_len	LM_OK
	cmd_seq	M_OK

History: 10-Nov-99 FK Initial

4.42.8 ACIATI498: Writing of a Message with explicit SCA, REPLY-Flag as Variant

Description:

write a message with extended AT command +CMGW, additional parameter SCA, which leads to NMSMS_STORE_REQ with actual SCA and actual REPLY-Flag which overwrites adjacent flag in <fo>.
The preamble garantees, that the standard AT command with default paramters works

Preamble:

ACIATI497

Variants: <A>...<C>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CMGW)        |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |         (msg: EDIT)        |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |      (cmd: CMGW edit)      |                            |
      *==========================>*                            |
(4)   |                            |      MNSMS_STORE_REQ       |
      |                            *==========================>*
(5)   |                            |      MNSMS_REPORT_IND      |
      |                            *<==========================*
(6)   |         ACI_CMD_IND        |                            |
      |         (msg: CMGW)        |                            |
      *<==========================*                            |
(7)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_CMGW_WRITE_SCA_DEF
<B>	cmd_len	LC_CMGW_WRITE_SCA_NORPL
<C>	cmd_len	LC_CMGW_WRITE_SCA_ISRPL
<A>	cmd_seq	C_CMGW_WRITE_SCA_DEF
<B>	cmd_seq	C_CMGW_WRITE_SCA_NORPL
<C>	cmd_seq	C_CMGW_WRITE_SCA_ISRPL
(2) ACI_CMD_IND		
	cmd_len	LM_EDIT
	cmd_seq	M_EDIT
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT

	cmd_len	LC_CMGW_ABCDEFGHI
	cmd_seq	C_CMGW_ABCDEFGHI
(4) MNSMS_STORE_REQ		
	mem_type	MEM_SM
	rec_num	SIM_RECORD_0
	dest_addr	DA_654321
	sc_addr	SA_12345
	prot_id	PID_SM_TYPE_0
	dcs	DCS_DEF_ALPH
<A>	msg_type	MSG_TYPE_SUBMIT_DEF
<B>	msg_type	MSG_TYPE_SUBMIT_DEF
<C>	msg_type	MSG_TYPE_SUBMIT_REPLY
	vp_rel	NOT_USED
	vp_abs	VP_A9801071234564
	sms_msg	SM7_ABCDEFGHI
	status	SIM_MO_STATUS
(5) MNSMS_REPORT_IND		
	cause	CS_OK
	msg_ref	SIM_RECORD_2
(6) ACI_CMD_IND		
	cmd_len	LM_CMGW_REC_NUM_2
	cmd_seq	M_CMGW_REC_NUM_2
(7) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 11-Nov-99 FK Initial

4.42.9 ACIATI499: Writing of a Message, default Parameters

Description:

after writing a message with extended AT Command +CMGW (testcase ACISSMS121C) write a message with standard AT command +CMGW, which leads to NMSMS_STORE_REQ with default parameters set by commands +CSCA and +CSMP.
This is to assure that the special parameters of the previous extended command are not stored and used further on.

Preamble:

ACIATI498C

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CMGW)        |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |         (msg: EDIT)        |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |      (cmd: CMGW edit)      |                            |
      *==========================>*                            |
(4)   |                            |       MNSMS_STORE_REQ      |
      |                            *==========================> *
(5)   |                            |      MNSMS_REPORT_IND      |
      |                            *<========================== *
(6)   |         ACI_CMD_IND        |                            |
      |         (msg: CMGW)        |                            |
      *<==========================*                            |
(7)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGW_WRITE_DA_DEF
		cmd_seq	C_CMGW_WRITE_DA_DEF
(2)	ACI_CMD_IND		
		cmd_len	LM_EDIT
		cmd_seq	M_EDIT
(3)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGW_ABCDEFGHI
		cmd_seq	C_CMGW_ABCDEFGHI
(4)	MNSMS_STORE_REQ		
		mem_type	MEM_SM
		rec_num	SIM_RECORD_0
		dest_addr	DA_030654321
		sc_addr	SA_017211963852
		prot_id	PID_SM_TYPE_0
		dcs	DCS_DEF_ALPH
		msg_type	MSG_TYPE_SUBMIT_DEF
		vp_rel	NOT_USED
		vp_abs	VP_A9801071234564
		sms_msg	SM7_ABCDEFGHI
		status	SIM_MO_STATUS
(5)	MNSMS_REPORT_IND		
		cause	CS_OK
		msg_ref	SIM_RECORD_3
(6)	ACI_CMD_IND		
		cmd_len	LM_CMGW_REC_NUM_3
		cmd_seq	M_CMGW_REC_NUM_3

(7)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History: 11-Nov-99 FK Initial

4.43 Delete Massage "+CMGD" (ACIATI511 – ACIATI520)

4.43.1 ACIATI511: Delete Message

Description:

A short message from memory is deleted succesfully.

Preamble:

ACIATI412

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |        (cmd: CMGD)         |                            |
      *==========================>*                            |
(2)   |                            |      MNSMS_DELETE_REQ      |
      |                            *==========================>*
(3)   |                            |      MNSMS_REPORT_IND      |
      |                            *<==========================*
(4)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGD_SIM_2
		cmd_seq	C_CMGD_SIM_2
(2)	MNSMS_DELETE_REQ		
		mem_type	MEM_SM
		rec_num	REC_NUM_02
(3)	MNSMS_REPORT_IND		
		cause	CS_OK
		msg_ref	MSG_REF_02
(4)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History: 16.12.98 SAB Initial

4.44 Send Massage "+CMGS" (ACIATI521 – ACIATI540)

4.44.1 ACIATI521: Send a Message, default Parameters

Description:

send a message with standard AT command +CMGS, which leads to NMSMS_SUBMIT_REQ with default parameters set by commands +CSCA and + CSMP.

Preamble:

ACIATI445

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CMGS)        |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |         (msg: EDIT)        |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |      (cmd: CMGS edit)      |                            |
      *==========================>*                            |
(4)   |                            |      MNSMS_SUBMIT_REQ      |
      |                            *==========================> *
(5)   |                            |      MNSMS_REPORT_IND      |
      |                            *<========================== *
(6)   |         ACI_CMD_IND        |                            |
      |         (msg: CMGS)        |                            |
      *<==========================*                            |
(7)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMGS_SEND_DEF
	cmd_seq	C_CMGS_SEND_DEF
(2) ACI_CMD_IND		
	cmd_len	LM_EDIT
	cmd_seq	M_EDIT
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMGW_ABCDEFGHI
	cmd_seq	C_CMGW_ABCDEFGHI
(4) MNSMS_SUBMIT_REQ		
	dest_addr	DA_654321
	sc_addr	SA_017211963852
	prot_id	PID_SM_TYPE_0

	dcs	DCS_DEF_ALPH
	msg_type	MSG_TYPE_SUBMIT_DEF
	vp_rel	NOT_USED
	vp_abs	VP_A9801071234564
	sms_msg	SM7_ABCDEFGHI
(5) MNSMS_REPORT_IND		
	cause	CS_OK
	msg_ref	MSG_REF_1
(6) ACI_CMD_IND		
	cmd_len	LM_CMGS_MSG_REF_1
	cmd_seq	M_CMGS_MSG_REF_1
(7) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 10-Nov-99 FK Initial

4.44.2 ACIATI522: Send a Message with explicit SCA, REPLY-Flag as Variant

Description:

send a message with extended AT command +CMGS, additional parameter SCA, which leads to NMSMS_SUBMIT_REQ with actual SCA and actual REPLY-Flag which overwrites adjacent flag in <fo>.
The preamble garantees, that the standard AT command with default paramters works

Preamble:

ACIATI521

Variants: <A>...<C>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CMGS)        |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |         (msg: EDIT)        |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |      (cmd: CMGS edit)      |                            |
      *==========================>*                            |
(4)   |                            |      MNSMS_SUBMIT_REQ      |
      |                            *==========================>*
(5)   |                            |      MNSMS_REPORT_IND      |
      |                            *<==========================*
(6)   |         ACI_CMD_IND        |                            |
      |         (msg: CMGS)        |                            |
      *<==========================*                            |
(7)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT

<A>	cmd_len	LC_CMGS_SEND_SCA_DEF
<B>	cmd_len	LC_CMGS_SEND_SCA_NORPL
<C>	cmd_len	LC_CMGS_SEND_SCA_ISRPL
<A>	cmd_seq	C_CMGS_SEND_SCA_DEF
<B>	cmd_seq	C_CMGS_SEND_SCA_NORPL
<C>	cmd_seq	C_CMGS_SEND_SCA_ISRPL
(2) ACI_CMD_IND		
	cmd_len	LM_EDIT
	cmd_seq	M_EDIT
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMGW_ABCDEFGHI
	cmd_seq	C_CMGW_ABCDEFGHI
(4) MNSMS_SUBMIT_REQ		
	dest_addr	DA_654321
	sc_addr	SA_12345
	prot_id	PID_SM_TYPE_0
	dcs	DCS_DEF_ALPH
<A>	msg_type	MSG_TYPE_SUBMIT_DEF
<B>	msg_type	MSG_TYPE_SUBMIT_DEF
<C>	msg_type	MSG_TYPE_SUBMIT_REPLY
	vp_rel	NOT_USED
	vp_abs	VP_A9801071234564
	sms_msg	SM7_ABCDEFGHI
(5) MNSMS_REPORT_IND		
	cause	CS_OK
	msg_ref	MSG_REF_2
(6) ACI_CMD_IND		
	cmd_len	LM_CMGS_MSG_REF_2
	cmd_seq	M_CMGS_MSG_REF_2
(7) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History:	11-Nov-99	FK	Initial

4.44.3 ACIATI523: Send a Message, default Parameters

Description:

after sending a message with extended AT Command +CMGS (testcase ACISSMS131C) send a message with standard AT command +CMGS, which leads to NMSMS_SUBMIT_REQ with default parameters set by commands +CSCA and +CSMP.
This is to assure that the special parameters of the previous extended command are not stored and used further on.

Preamble:

ACIATI522C

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CMGS)        |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |         (msg: EDIT)        |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |      (cmd: CMGS edit)      |                            |
      *==========================>*                            |
(4)   |                            |      MNSMS_SUBMIT_REQ      |
      |                            *==========================> *
(5)   |                            |      MNSMS_REPORT_IND      |
      |                            *<========================== *
(6)   |         ACI_CMD_IND        |                            |
      |         (msg: CMGS)        |                            |
      *<==========================*                            |
(7)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGS_SEND_DA_DEF
		cmd_seq	C_CMGS_SEND_DA_DEF
(2)	ACI_CMD_IND		
		cmd_len	LM_EDIT
		cmd_seq	M_EDIT
(3)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGW_ABCDEFGHI
		cmd_seq	C_CMGW_ABCDEFGHI
(4)	MNSMS_SUBMIT_REQ		
		dest_addr	DA_030654321
		sc_addr	SA_017211963852
		prot_id	PID_SM_TYPE_0
		dcs	DCS_DEF_ALPH
		msg_type	MSG_TYPE_SUBMIT_DEF
		vp_rel	NOT_USED
		vp_abs	VP_A9801071234564
		sms_msg	SM7_ABCDEFGHI
(5)	MNSMS_REPORT_IND		
		cause	CS_OK
		msg_ref	MSG_REF_3
(6)	ACI_CMD_IND		
		cmd_len	LM_CMGS_MSG_REF_3
		cmd_seq	M_CMGS_MSG_REF_3
(7)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History:	10-Nov-99	FK	Initial

4.44.4 ACIATI524: Send Short Message

Description:

A short message will be sent successfully.

Preamble:

ACIATI442

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CMGS)        |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |      (msg: CMGS edit)      |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |      (cmd: CMGS edit)      |                            |
      *==========================>*                            |
(4)   |                            |      MNSMS_SUBMIT_REQ      |
      |                            *==========================> *
(5)   |                            |      MNSMS_REPORT_IND      |
      |                            *<========================== *
(6)   |         ACI_CMD_IND        |                            |
      |         (msg: CMGS)        |                            |
      *<==========================*                            |
(7)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(8)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CMGS)        |                            |
      *==========================>*                            |
(9)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGS_SENDING
		cmd_seq	C_CMGS_SENDING
(2)	ACI_CMD_IND		
		cmd_len	LM_EDIT
		cmd_seq	M_EDIT
(3)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGS_ABCDEFGHI
		cmd_seq	C_CMGS_ABCDEFGHI
(4)	MNSMS_SUBMIT_REQ		
		dest_addr	DA_654321
		sc_addr	SA_12345
		prot_id	PID_SM_TYPE_0

	dcs	DCS_DEF_ALPH
	msg_type	MSG_TYPE_1D
	vp_rel	NOT_USED
	vp_abs	VP_A9801071234564
	sms_msg	SM7_ABCDEFGHI
	mem_type	NUM_0
	rec_num	REC_NUM_00
(5) MNSMS_REPORT_IND		
	cause	CS_OK
	msg_ref	MSG_REF_01
(6) ACI_CMD_IND		
	cmd_len	LM_CMGS_MSG_REF_1
	cmd_seq	M_CMGS_MSG_REF_1
(7) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(8) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMGS_test
	cmd_seq	C_CMGS_test
(9) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 11.12.98 SAB Initial
14.04.2000 FK Primitive Change

4.44.5 ACIATI525: Send Short Message

Description:

A short message will be sent successfully. The message contains characters in the range of 0x00 and 0x7F.

Preamble:

ACIATI524

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CSCS)        |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CMGS)        |                            |
      *==========================>*                            |
(4)   |         ACI_CMD_IND        |                            |
      |      (msg: CMGS edit)      |                            |
      *<==========================*                            |
(5)   |         ACI_CMD_REQ        |                            |
      |      (cmd: CMGS edit)      |                            |
      *==========================>*                            |
(6)   |                            |      MNSMS_SUBMIT_REQ      |
      |                            *==========================>*
(7)   |                            |      MNSMS_REPORT_IND      |
      |                            *<==========================*
(8)   |         ACI_CMD_IND        |                            |
      |         (msg: CMGS)        |                            |
      *<==========================*                            |
(9)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(10)  |         ACI_CMD_REQ        |                            |
      |         (cmd: CMGS)        |                            |
      *==========================>*                            |
(11)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CSCS_PCCP437
		cmd_seq	C_CSCS_PCCP437
(2)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

(3) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_CMGS_SENDING
cmd_seq	C_CMGS_SENDING

(4) ACI_CMD_IND

cmd_len	LM_EDIT
cmd_seq	M_EDIT

(5) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_CMGS_SPECIAL_SIGNS
cmd_seq	C_CMGS_SPECIAL_SIGNS

(6) MNSMS_SUBMIT_REQ

dest_addr	DA_654321
sc_addr	SA_12345
prot_id	PID_SM_TYPE_0
dcs	DCS_DEF_ALPH
msg_type	MSG_TYPE_1D
vp_rel	NOT_USED
vp_abs	VP_A9801071234564
sms_msg	SM7_SPECIAL_SIGNS
mem_type	NUM_0
rec_num	REC_NUM_00

(7) MNSMS_REPORT_IND

cause	CS_OK
msg_ref	MSG_REF_01

(8) ACI_CMD_IND

cmd_len	LM_CMGS_MSG_REF_1
cmd_seq	M_CMGS_MSG_REF_1

(9) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(10) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_CMGS_test
cmd_seq	C_CMGS_test

(11) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History: 11.12.98 SAB Initial
14.04.2000 FK Primitive Change

4.44.6 ACIATI526: Send Short Message

Description:

A short message will be sent successfully. The message contains characters in the range of 0x00 and 0x7F.

Preamble:

ACIATI442

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CSMP)        |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CSCS)        |                            |
      *==========================>*                            |
(4)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(5)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CMGS)        |                            |
      *==========================>*                            |
(6)   |         ACI_CMD_IND        |                            |
      |      (msg: CMGS edit)      |                            |
      *<==========================*                            |
(7)   |         ACI_CMD_REQ        |                            |
      |      (cmd: CMGS edit)      |                            |
      *==========================>*                            |
(8)   |                            |      MNSMS_SUBMIT_REQ      |
      |                            *==========================>*
(9)   |                            |      MNSMS_REPORT_IND      |
      |                            *<==========================*
(10)  |         ACI_CMD_IND        |                            |
      |         (msg: CMGS)        |                            |
      *<==========================*                            |
(11)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSMP_DCS_8_BIT
	cmd_seq	C_CSMP_DCS_8_BIT
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

(3) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_CSCS_HEX
cmd_seq	C_CSCS_HEX

(4) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(5) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_CMGS_SENDING
cmd_seq	C_CMGS_SENDING

(6) ACI_CMD_IND

cmd_len	LM_EDIT
cmd_seq	M_EDIT

(7) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_CMGS_HEX_SPECIAL_SIGNS
cmd_seq	C_CMGS_HEX_SPECIAL_SIGNS

(8) MNSMS_SUBMIT_REQ

dest_addr	DA_654321
sc_addr	SA_12345
prot_id	PID_SM_TYPE_0
dcs	DCS_2
msg_type	MSG_TYPE_1D
vp_rel	NOT_USED
vp_abs	VP_A9801071234564
sms_msg	SM8_HEX_SPECIAL_SIGNS
mem_type	NUM_0
rec_num	REC_NUM_00

(9) MNSMS_REPORT_IND

cause	CS_OK
msg_ref	MSG_REF_01

(10) ACI_CMD_IND

cmd_len	LM_CMGS_MSG_REF_1
cmd_seq	M_CMGS_MSG_REF_1

(11) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History: 11.12.98 SAB Initial
14.04.2000 FK Primitive Change

4.44.7 ACIATI527: Send Short Message, no validity period

Description:

A short message will be sent successfully.

Preamble:

ACIATI413

Variants:

<A>...<B>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CMGS)        |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |           (prompt)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |      (cmd: CMGS edit)      |                            |
      *==========================>*                            |
(4)   |                            |      MNSMS_SUBMIT_REQ      |
      |                            *==========================> *
(5)   |                            |      MNSMS_REPORT_IND      |
      |                            *<========================== *
(6)   |         ACI_CMD_IND        |                            |
      |         (msg: CMGS)        |                            |
      *<==========================*                            |
(7)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMGS_SENDING_NO_VP
	cmd_seq	C_CMGS_SENDING_NO_VP
(2) ACI_CMD_IND		
	cmd_len	LM_PROMPT
	cmd_seq	M_PROMPT
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LM_CMT_PDU_STO_SENT_IN
<B>	cmd_len	LM_CMT_PDU_SENT_NO_SCA_IN
<A>	cmd_seq	M_CMT_PDU_STO_SENT_IN
<B>	cmd_seq	M_CMT_PDU_SENT_NO_SCA_IN
(4) MNSMS_SUBMIT_REQ		
	dest_addr	DA_98765
<A>	sc_addr	SA_12345
<B>	sc_addr	SA_ALT

	prot_id	PID_SM_TYPE_0
	dcs	DCS_1
	msg_type	MSG_TYPE_01
	vp_rel	NOT_USED
	vp_abs	NOT_USED
	sms_msg	SM7_ABCDEFGHI
	mem_type	NUM_0
	rec_num	REC_NUM_00
(5) MNSMS_REPORT_IND		
	cause	CS_OK
	msg_ref	MSG_REF_01
(6) ACI_CMD_IND		
	cmd_len	LM_CMGS_MSG_REF_1
	cmd_seq	M_CMGS_MSG_REF_1
(7) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 11.12.98 SAB Initial
14.04.2000 FK Primitive Change

4.44.8 ACIATI528: Send Short Message, relative validity period

Description:

A short message will be sent successfully.

Preamble:

ACIATI413

Variants:

<A>...<B>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CMGS)        |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |           (prompt)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |      (cmd: CMGS edit)      |                            |
      *==========================>*                            |
(4)   |                            |      MNSMS_SUBMIT_REQ      |
      |                            *==========================> *
(5)   |                            |      MNSMS_REPORT_IND      |
      |                            *<========================== *
(6)   |         ACI_CMD_IND        |                            |
      |         (msg: CMGS)        |                            |
      *<==========================*                            |
(7)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMGS_SENDING_VP_REL
	cmd_seq	C_CMGS_SENDING_VP_REL
(2) ACI_CMD_IND		
	cmd_len	LM_PROMPT
	cmd_seq	M_PROMPT
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LM_CMT_PDU_STO_SENT_REL_IN
<B>	cmd_len	LM_CMT_PDU_SENT_NO_SCA_REL_IN
<A>	cmd_seq	M_CMT_PDU_STO_SENT_REL_IN
<B>	cmd_seq	M_CMT_PDU_SENT_NO_SCA_REL_IN
(4) MNSMS_SUBMIT_REQ		
	dest_addr	DA_98765
<A>	sc_addr	SA_12345
<B>	sc_addr	SA_ALT
	prot_id	PID_SM_TYPE_0
	dcs	DCS_1
	msg_type	MSG_TYPE_11
	vp_rel	VP_REL_23
	vp_abs	NOT_USED
	sms_msg	SM7_ABCDEFGHI
	mem_type	NUM_0
	rec_num	REC_NUM_00
(5) MNSMS_REPORT_IND		
	cause	CS_OK
	msg_ref	MSG_REF_01
(6) ACI_CMD_IND		
	cmd_len	LM_CMGS_MSG_REF_1
	cmd_seq	M_CMGS_MSG_REF_1
(7) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 11.12.98 SAB Initial
14.04.2000 FK Primitive Change

4.44.9 ACIATI529: Send Short Message, absolute validity period

Description:

A short message will be sent successfully.

Preamble:

ACIATI413

Variants:

<A>...<B>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CMGS)        |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |           (prompt)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |      (cmd: CMGS edit)      |                            |
      *==========================>*                            |
(4)   |                            |      MNSMS_SUBMIT_REQ      |
      |                            *==========================> *
(5)   |                            |      MNSMS_REPORT_IND      |
      |                            *<========================== *
(6)   |         ACI_CMD_IND        |                            |
      |         (msg: CMGS)        |                            |
      *<==========================*                            |
(7)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGS_SENDING_VP_ABS
		cmd_seq	C_CMGS_SENDING_VP_ABS
(2)	ACI_CMD_IND		
		cmd_len	LM_PROMPT
		cmd_seq	M_PROMPT
(3)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
	<A>	cmd_len	LM_CMT_PDU_STO_SENT_ABS_IN
	<B>	cmd_len	LM_CMT_PDU_SENT_NO_SCA_ABS_IN
	<A>	cmd_seq	M_CMT_PDU_STO_SENT_ABS_IN
	<B>	cmd_seq	M_CMT_PDU_SENT_NO_SCA_ABS_IN
(4)	MNSMS_SUBMIT_REQ		
		dest_addr	DA_98765
	<A>	sc_addr	SA_12345

<B>	sc_addr	SA_ALT
	prot_id	PID_SM_TYPE_0
	dcs	DCS_1
	msg_type	MSG_TYPE_19
	vp_rel	NOT_USED
	vp_abs	VP_A9801071234564
	sms_msg	SM7_ABCDEFGHI
	mem_type	NUM_0
	rec_num	REC_NUM_00
(5) MNSMS_REPORT_IND		
	cause	CS_OK
	msg_ref	MSG_REF_01
(6) ACI_CMD_IND		
	cmd_len	LM_CMGS_MSG_REF_1
	cmd_seq	M_CMGS_MSG_REF_1
(7) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 11.12.98 SAB Initial
14.04.2000 FK Primitive Change

4.44.10 ACIATI530: Query Send Message format

Description:

The capabilities of send message command are requested.

Preamble:

ACIATI413

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |       (cmd: CMGS=?)        |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMGS_test
	cmd_seq	C_CMGS_test
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 11.12.98 SAB Initial

4.44.11 ACIATI531: Send Messages, invalid format

Description:

A send message command with invalid syntax is requested.

Preamble:

ACIATI413

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: CMGS=??)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |         (msg: ERROR)       |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |        (cmd: CMEE=2)       |                            |
      *==========================>*                            |
(4)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(5)   |         ACI_CMD_REQ        |                            |
      |       (cmd: CMGS=??)       |                            |
      *==========================>*                            |
(6)   |         ACI_CMD_IND        |                            |
      |      (msg: CMS ERROR)      |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGS_INVALID
		cmd_seq	C_CMGS_INVALID
(2)	ACI_CMD_IND		
		cmd_len	LM_ERROR
		cmd_seq	M_ERROR
(3)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_PLUS_CMEE_VERB
		cmd_seq	C_PLUS_CMEE_VERB
(4)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK
(5)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGS_INVALID
		cmd_seq	C_CMGS_INVALID
(6)	ACI_CMD_IND		
		cmd_len	LM_CMS_ERR_INV_OPP
		cmd_seq	M_CMS_ERR_INV_OPP

History: 11.12.98 SAB Initial

4.45 Send Command "+CMGC" (ACIATI541 – ACIATI555)

4.45.1 ACIATI541: Send Command

Description:

A command message will be sent successfully.

Preamble:

ACIATI441

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CMGC)        |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |      (msg: CMGC edit)      |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |      (cmd: CMGC edit)      |                            |
      *==========================>*                            |
(4)   |                            |      MNSMS_COMMAND_REQ     |
      |                            *==========================> *
(5)   |                            |      MNSMS_REPORT_IND      |
      |                            *<========================== *
(6)   |         ACI_CMD_IND        |                            |
      |         (msg: CMGC)        |                            |
      *<==========================*                            |
(7)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(8)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CMGC)        |                            |
      *==========================>*                            |
(9)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGC_SENDING
		cmd_seq	C_CMGC_SENDING
(2)	ACI_CMD_IND		
		cmd_len	LM_EDIT
		cmd_seq	M_EDIT
(3)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGC_NO_TEXT
		cmd_seq	C_CMGC_NO_TEXT

(4) MNSMS_COMMAND_REQ

sms_cmd	SMS_CMD_REQ_STAT_REP
dest_addr	DA_654321
sc_addr	SA_12345
msg_ref	MSG_REF_02
msg_type	MSG_TYPE_02
prot_id	PID_SM_TYPE_0
cmd_data	CMD_DATA_EMPTY

(5) MNSMS_REPORT_IND

cause	CS_OK
msg_ref	MSG_REF_02

(6) ACI_CMD_IND

cmd_len	LM_CMGC_MSG_REF_2
cmd_seq	M_CMGC_MSG_REF_2

(7) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(8) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_CMGC_test
cmd_seq	C_CMGC_test

(9) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History: 15.12.98 SAB Initial

4.45.2 ACIATI542: Send Command, no destination address, no command data

Description:

A command message will be sent successfully.

Preamble:

ACIATI413

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CMGC)        |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |           (prompt)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |      (cmd: CMGC edit)      |                            |
      *==========================>*                            |
(4)   |                            |      MNSMS_COMMAND_REQ     |
      |                            *==========================>*
(5)   |                            |      MNSMS_REPORT_IND      |
      |                            *<==========================*
(6)   |         ACI_CMD_IND        |                            |
      |         (msg: CMGC)        |                            |
      *<==========================*                            |
(7)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
```

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

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGC_SENDING_PDU_NN
		cmd_seq	C_CMGC_SENDING_PDU_NN
(2)	ACI_CMD_IND		
		cmd_len	LM_PROMPT
		cmd_seq	M_PROMPT
(3)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGC_PDU_NN_IN
		cmd_seq	C_CMGC_PDU_NN_IN
(4)	MNSMS_COMMAND_REQ		
		sms_cmd	SMS_CMD_REQ_STAT_REP
		dest_addr	NO_DA
		sc_addr	SA_12345
		msg_ref	MSG_REF_02
		msg_type	MSG_TYPE_02
		prot_id	PID_SM_TYPE_0
		cmd_data	CMD_DATA_EMPTY
(5)	MNSMS_REPORT_IND		
		cause	CS_OK
		msg_ref	MSG_REF_02
(6)	ACI_CMD_IND		
		cmd_len	LM_CMGC_MSG_REF_2
		cmd_seq	M_CMGC_MSG_REF_2
(7)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History: 15.12.98 SAB Initial

4.45.3 ACIATI543: Send Command, no destination address, command data

Description:

A command message will be sent successfully.

Preamble:

ACIATI413

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |        (cmd: CMGC)         |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |          (prompt)          |                            |
      *<==========================*                            |
(3)   |        ACI_CMD_REQ         |                            |
      |      (cmd: CMGC edit)      |                            |
      *==========================>*                            |
(4)   |                            |     MNSMS_COMMAND_REQ      |
      |                            *==========================> *
(5)   |                            |     MNSMS_REPORT_IND       |
      |                            *<========================== *
(6)   |        ACI_CMD_IND         |                            |
      |        (msg: CMGC)         |                            |
      *<==========================*                            |
(7)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMGC_SENDING_PDU_NC
	cmd_seq	C_CMGC_SENDING_PDU_NC
(2) ACI_CMD_IND		
	cmd_len	LM_PROMPT
	cmd_seq	M_PROMPT
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMGC_PDU_NC_IN
	cmd_seq	C_CMGC_PDU_NC_IN
(4) MNSMS_COMMAND_REQ		
	sms_cmd	SMS_CMD_REQ_STAT_REP
	dest_addr	NO_DA
	sc_addr	SA_12345
	msg_ref	MSG_REF_02
	msg_type	MSG_TYPE_02
	prot_id	PID_SM_TYPE_0
	cmd_data	WITH_CMD_DATA

(5) MNSMS_REPORT_IND

cause	CS_OK
msg_ref	MSG_REF_02

(6) ACI_CMD_IND

cmd_len	LM_CMGC_MSG_REF_2
cmd_seq	M_CMGC_MSG_REF_2

(7) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History: 15.12.98 SAB Initial

4.45.4 ACIATI544: Send Command, destination address, no command data

Description:

A command message will be sent successfully.

Preamble:

ACIATI413

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CMGC)        |                            |
      * ========================== *                            |
(2)   |         ACI_CMD_IND        |                            |
      |           (prompt)         |                            |
      * <========================== *                            |
(3)   |         ACI_CMD_REQ        |                            |
      |      (cmd: CMGC edit)      |                            |
      * ========================== *                            |
(4)   |                            |      MNSMS_COMMAND_REQ     |
      |                            * ========================== *
(5)   |                            |      MNSMS_REPORT_IND      |
      |                            * <========================== *
(6)   |         ACI_CMD_IND        |                            |
      |         (msg: CMGC)        |                            |
      * <========================== *                            |
(7)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      * <========================== *                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMGC_SENDING_PDU_DN
	cmd_seq	C_CMGC_SENDING_PDU_DN
(2) ACI_CMD_IND		
	cmd_len	LM_PROMPT
	cmd_seq	M_PROMPT
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT

		cmd_len	LC_CMGC_PDU_DN_IN
		cmd_seq	C_CMGC_PDU_DN_IN
(4)	MNSMS_COMMAND_REQ		
		sms_cmd	SMS_CMD_REQ_STAT_REP
		dest_addr	DA_98765
		sc_addr	SA_12345
		msg_ref	MSG_REF_02
		msg_type	MSG_TYPE_02
		prot_id	PID_SM_TYPE_0
		cmd_data	CMD_DATA_EMPTY
(5)	MNSMS_REPORT_IND		
		cause	CS_OK
		msg_ref	MSG_REF_02
(6)	ACI_CMD_IND		
		cmd_len	LM_CMGC_MSG_REF_2
		cmd_seq	M_CMGC_MSG_REF_2
(7)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History: 15.12.98 SAB Initial

4.45.5 ACIATI545: Send Command, destination address, command data

Description:

A command message will be sent successfully.

Preamble:

ACIATI413

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |        (cmd: CMGC)         |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |          (prompt)          |                            |
      *<==========================*                            |
(3)   |        ACI_CMD_REQ         |                            |
      |      (cmd: CMGC edit)      |                            |
      *==========================>*                            |
(4)   |                            |     MNSMS_COMMAND_REQ      |
      |                            *==========================>*
(5)   |                            |     MNSMS_REPORT_IND       |
      |                            *<==========================*
(6)   |        ACI_CMD_IND         |                            |
      |        (msg: CMGC)         |                            |
      *<==========================*                            |
(7)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value

(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGC_SENDING_PDU_DC
		cmd_seq	C_CMGC_SENDING_PDU_DC
(2)	ACI_CMD_IND		
		cmd_len	LM_PROMPT
		cmd_seq	M_PROMPT
(3)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGC_PDU_DC_IN
		cmd_seq	C_CMGC_PDU_DC_IN
(4)	MNSMS_COMMAND_REQ		
		sms_cmd	SMS_CMD_REQ_STAT_REP
		dest_addr	DA_98765
		sc_addr	SA_12345
		msg_ref	MSG_REF_02
		msg_type	MSG_TYPE_02
		prot_id	PID_SM_TYPE_0
		cmd_data	WITH_CMD_DATA
(5)	MNSMS_REPORT_IND		
		cause	CS_OK
		msg_ref	MSG_REF_02
(6)	ACI_CMD_IND		
		cmd_len	LM_CMGC_MSG_REF_2
		cmd_seq	M_CMGC_MSG_REF_2
(7)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History: 15.12.98 SAB Initial

4.45.6 ACIATI546: Query Send Command format

Description:

The capabilities of send command are requested.

Preamble:

ACIATI413

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |        (cmd: CMGC=?)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT

	cmd_len	LC_CMGC_test
	cmd_seq	C_CMGC_test
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 11.12.98 SAB Initial

4.45.7 ACIATI547: Send Command, invalid format

Description:

A send message command with invalid syntax is requested.

Preamble:

ACIATI413

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: CMGC=??)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |        (msg: ERROR)        |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |       (cmd: CMEE=2)        |                            |
      *==========================>*                            |
(4)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(5)   |         ACI_CMD_REQ        |                            |
      |       (cmd: CMGC=??)       |                            |
      *==========================>*                            |
(6)   |         ACI_CMD_IND        |                            |
      |      (msg: CMS ERROR)      |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMGC_INVALID
	cmd_seq	C_CMGC_INVALID
(2) ACI_CMD_IND		
	cmd_len	LM_ERROR
	cmd_seq	M_ERROR
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CMEE_VERB
	cmd_seq	C_PLUS_CMEE_VERB
(4) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

(5)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGC_INVALID
		cmd_seq	C_CMGC_INVALID
(6)	ACI_CMD_IND		
		cmd_len	LM_CMS_ERR_INV_OPP
		cmd_seq	M_CMS_ERR_INV_OPP

History: 11.12.98 SAB Initial

4.46 Read Message "+CMGR" (ACIATI556 – ACIATI575)

4.46.1 ACIATI556: Read Message

Description:

A short message from memory is read succesfully.

Preamble:

ACIATI412

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CMGR)        |                            |
      *==========================>*                            |
(2)   |                            |       MNSMS_READ_REQ       |
      |                            *==========================>*
(3)   |                            |        MNSMS_MO_IND        |
      |                            *<==========================*
(4)   |         ACI_CMD_IND        |                            |
      |         (msg: CMGR)        |                            |
      *<==========================*                            |
(5)   |         ACI_CMD_IND        |                            |
      |         (msg: CMGR)        |                            |
      *<==========================*                            |
(6)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGR_SIM_2
		cmd_seq	C_CMGR_SIM_2
(2)	MNSMS_READ_REQ		
		mem_type	MEM_SM
		read_mode	READ_NORMAL
		rec_num	REC_NUM_02
(3)	MNSMS_MO_IND		
		status	SIM_MO_STATUS
		dest_addr	DA_98765
		sc_addr	SA_12345
		prot_id	PID_SM_TYPE_0
		dcs	DCS_1

	msg_type	MSG_MO_1
	vp_rel	NOT_USED
	vp_abs	NOT_USED
	sms_msg	SMS_MO_CONTENT
	msg_ref	NOT_PRESENT_8BIT
(4) ACI_CMD_IND		
	cmd_len	LM_CMGR_SIM_2
	cmd_seq	M_CMGR_SIM_2
(5) ACI_CMD_IND		
	cmd_len	LM_CMT_ABCDEFGHI
	cmd_seq	M_CMT_ABCDEFGHI
(6) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 16.12.98 SAB Initial
14.04.2000 FK Primitive Change

4.46.2 ACIATI557: Read Message, received read

Description:

A short message from memory is read succesfully. The message has the status received read.

Preamble:

ACIATI413

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CMGR)        |                            |
      *==========================>*                            |
(2)   |                            |       MNSMS_READ_REQ       |
      |                            *==========================>*
(3)   |                            |        MNSMS_MT_IND        |
      |                            *<==========================*
(4)   |         ACI_CMD_IND        |                            |
      |         (msg: CMGR)        |                            |
      *<==========================*                            |
(5)   |         ACI_CMD_IND        |                            |
      |         (msg: CMGR)        |                            |
      *<==========================*                            |
(6)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMGR_SIM_3
	cmd_seq	C_CMGR_SIM_3
(2) MNSMS_READ_REQ		
	mem_type	MEM_SM

	read_mode	READ_NORMAL
	rec_num	REC_NUM_3
(3) MNSMS_MT_IND		
	status	SIM_MT_STATUS_READ
	orig_addr	OA_987654
	sc_addr	SA_12345
	prot_id	PID_SM_TYPE_0
	dcs	DCS_DEF_ALPH
	msg_type	MSG_TYPE_04
	sct	VP_A9801071234564
	sms_msg	SM7_ABCDEFGHI
	msg_ref	NOT_USED
(4) ACI_CMD_IND		
	cmd_len	LM_CMGR_ENTRY_03_PDU
	cmd_seq	M_CMGR_ENTRY_03_PDU
(5) ACI_CMD_IND		
	cmd_len	LM_CMT_PDU_REC_READ
	cmd_seq	M_CMT_PDU_REC_READ
(6) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 16.12.98 SAB Initial

4.46.3 ACIATI558: Read Message, received unread

Description:

A short message from memory is read succesfully. The message has the status received unread.

Preamble:

ACIATI413

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |        (cmd: CMGR)         |                            |
      *==========================>*                            |
(2)   |                            |       MNSMS_READ_REQ       |
      |                            *==========================>*
(3)   |                            |        MNSMS_MT_IND        |
      |                            *<==========================*
(4)   |        ACI_CMD_IND         |                            |
      |        (msg: CMGR)         |                            |
      *<==========================*                            |
(5)   |        ACI_CMD_IND         |                            |
      |        (msg: CMGR)         |                            |
      *<==========================*                            |
(6)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value

(1) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_CMGR_SIM_5
cmd_seq	C_CMGR_SIM_5

(2) MNSMS_READ_REQ

mem_type	MEM_SM
read_mode	READ_NORMAL
rec_num	REC_NUM_5

(3) MNSMS_MT_IND

status	SIM_MT_STATUS
orig_addr	OA_987654
sc_addr	SA_12345
prot_id	PID_SM_TYPE_0
dcs	DCS_DEF_ALPH
msg_type	MSG_TYPE_04
sct	VP_A9801071234564
sms_msg	SM7_ABCDEFGHI
msg_ref	NOT_USED

(4) ACI_CMD_IND

cmd_len	LM_CMGR_ENTRY_05_PDU
cmd_seq	M_CMGR_ENTRY_05_PDU

(5) ACI_CMD_IND

cmd_len	LM_CMT_PDU_REC_READ
cmd_seq	M_CMT_PDU_REC_READ

(6) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History: 16.12.98 SAB Initial

4.46.4 ACIATI559: Read Message, stored sent

Description:

A short message from memory is read succesfully. The message has the status stored sent.

Preamble:

ACIATI413

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CMGR)        |                            |
      *==========================>*                            |
(2)   |                            |       MNSMS_READ_REQ       |
      |                            *==========================>*
(3)   |                            |        MNSMS_MO_IND        |
      |                            *<========================== *
(4)   |         ACI_CMD_IND        |                            |
      |         (msg: CMGR)        |                            |
      *<==========================*                            |
(5)   |         ACI_CMD_IND        |                            |
      |         (msg: CMGR)        |                            |
      *<==========================*                            |
(6)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
```

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

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGR_SIM_9
		cmd_seq	C_CMGR_SIM_9
(2)	MNSMS_READ_REQ		
		mem_type	MEM_SM
		read_mode	READ_NORMAL
		rec_num	REC_NUM_9
(3)	MNSMS_MO_IND		
		status	SIM_MO_STATUS_SENT
		dest_addr	DA_98765
		sc_addr	SA_12345
		prot_id	PID_SM_TYPE_0
		dcs	DCS_1
		msg_type	MSG_MO_11
		vp_rel	VP_REL_23
		vp_abs	NOT_USED
		sms_msg	SMS_MO_CONTENT
		msg_ref	MSG_REF_AA
(4)	ACI_CMD_IND		
		cmd_len	LM_CMGR_ENTRY_09_PDU
		cmd_seq	M_CMGR_ENTRY_09_PDU
(5)	ACI_CMD_IND		
		cmd_len	LM_CMT_PDU_STO_SENT_REL
		cmd_seq	M_CMT_PDU_STO_SENT_REL
(6)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History: 16.12.98 SAB Initial
14.04.2000 FK Primitive Change

4.46.5 ACIATI560: Read Message, stored unsent

Description:

A short message from memory is read succesfully. The message has the status stored unsent.

Preamble:

ACIATI413

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |        (cmd: CMGR)         |                            |
      *==========================>*                            |
(2)   |                            |       MNSMS_READ_REQ       |
      |                            *==========================>*
(3)   |                            |        MNSMS_MO_IND        |
      |                            *<==========================*
(4)   |        ACI_CMD_IND         |                            |
      |        (msg: CMGR)         |                            |
      *<==========================*                            |
(5)   |        ACI_CMD_IND         |                            |
      |        (msg: CMGR)         |                            |
      *<==========================*                            |
(6)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGR_SIM_25
		cmd_seq	C_CMGR_SIM_25
(2)	MNSMS_READ_REQ		
		mem_type	MEM_SM
		read_mode	READ_NORMAL
		rec_num	REC_NUM_25
(3)	MNSMS_MO_IND		
		status	SIM_MO_STATUS
		dest_addr	DA_98765
		sc_addr	SA_12345
		prot_id	PID_SM_TYPE_0
		dcs	DCS_1
		msg_type	MSG_MO_11
		vp_rel	VP_REL_23
		vp_abs	NOT_USED
		sms_msg	SMS_MO_CONTENT
		msg_ref	NOT_PRESENT_8BIT
(4)	ACI_CMD_IND		
		cmd_len	LM_CMGR_ENTRY_25_PDU
		cmd_seq	M_CMGR_ENTRY_25_PDU

(5)	ACI_CMD_IND		
		cmd_len	LM_CMT_PDU_STO_UNSENT_REL
		cmd_seq	M_CMT_PDU_STO_UNSENT_REL
(6)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History: 16.12.98 SAB Initial
14.04.2000 FK Primitive Change

4.46.6 ACIATI561: Read Message, invalid or defect index

Description:

A short message from memory is read with errors.

Preamble:

ACIATI413

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CMGR)        |                            |
      *==========================>*                            |
(2)   |                            |       MNSMS_READ_REQ       |
      |                            *==========================>*
(3)   |                            |      MNSMS_REPORT_IND      |
      |                            *<==========================*
(4)   |         ACI_CMD_IND        |                            |
      |         (msg: ERROR)       |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGR_SIM_25
		cmd_seq	C_CMGR_SIM_25
(2)	MNSMS_READ_REQ		
		mem_type	MEM_SM
		read_mode	READ_NORMAL
		rec_num	REC_NUM_25
(3)	MNSMS_REPORT_IND		
		cause	CS_INVAL_MEM_INDEX
		msg_ref	NOT_PRESENT_8BIT
(4)	ACI_CMD_IND		
		cmd_len	LM_ERROR
		cmd_seq	M_ERROR

History: 16.12.98 SAB Initial

4.46.7 ACIATI562: Query Read Message format

Description:

The capabilities of read message command are requested.

Preamble:

ACIATI413

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |        (cmd: CMGR=?)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGR_QUERY
		cmd_seq	C_CMGR_QUERY
(2)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History: 11.12.98 SAB Initial

4.46.8 ACIATI563: Read Messages, invalid format

Description:

A read message command with invalid syntax is requested.

Preamble:

ACIATI413

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: CMGR=??)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |         (msg: ERROR)       |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |        (cmd: CMEE=2)       |                            |
      *==========================>*                            |
(4)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(5)   |         ACI_CMD_REQ        |                            |
      |       (cmd: CMGR=??)       |                            |
      *==========================>*                            |
(6)   |         ACI_CMD_IND        |                            |
      |      (msg: CMS ERROR)      |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGR_INVALID
		cmd_seq	C_CMGR_INVALID
(2)	ACI_CMD_IND		
		cmd_len	LM_ERROR
		cmd_seq	M_ERROR
(3)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_PLUS_CMEE_VERB
		cmd_seq	C_PLUS_CMEE_VERB
(4)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK
(5)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGR_INVALID
		cmd_seq	C_CMGR_INVALID
(6)	ACI_CMD_IND		
		cmd_len	LM_CMS_ERR_INV_OPP
		cmd_seq	M_CMS_ERR_INV_OPP

History: 11.12.98 SAB Initial

4.46.9 ACIATI564: Reception of a MT-SM

Description:

indicate reception of a MT-SM, which is stored in SIM record 1

Preamble:

ACIATI451

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |                            |      MNSMS_ALERT_IND       |
      |                            *<==========================*
(2)   |         ACI_CMD_IND        |                            |
      |      (msg: +CMTI: ...)     |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) MNSMS_ALERT_IND		
	mem_type	MEM_SM
	rec_num	SIM_RECORD_1
	status	SIM_MT_STATUS
(2) ACI_CMD_IND		
	cmd_len	LC_PLUS_CMTI_SIM_REC1
	cmd_seq	C_PLUS_CMTI_SIM_REC1

History: 08-Nov-99 FK Initial

4.46.10 ACIATI565: Read of a SM-MT, default Read Mode

Description:

read MT-SM in record 1 with standard AT command, read mode is NORMAL by default

Preamble:

ACIATI564

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CMGR=1)       |                            |
      *==========================>*                            |
(2)   |                            |      MNSMS_READ_REQ        |
      |                            *==========================>*
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT

	cmd_len	LC_CMGR_SIM_1
	cmd_seq	C_CMGR_SIM_1
(2) MNSMS_READ_REQ	mem_type	MEM_SM
	read_mode	READ_NORMAL
	rec_num	SIM_RECORD_1

History: 08-Nov-99 FK Initial

4.46.11 ACIATI566: Read of a SM-MT, Read Mode = NORMAL

Description:

read MT-SM in record 1 with extended AT command, read mode set to NORMAL

Preamble:

ACIATI564

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: +CMGR=1,0)      |                            |
      *==========================>*                            |
(2)   |                            |       MNSMS_READ_REQ       |
      |                            *==========================>*
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CMGR_REC1_NORM
	cmd_seq	C_PLUS_CMGR_REC1_NORM
(2) MNSMS_READ_REQ	mem_type	MEM_SM
	read_mode	READ_NORMAL
	rec_num	SIM_RECORD_1

History: 08-Nov-99 FK Initial

4.46.12 ACIATI567: Read of a SM-MT, Read Mode = PREVIEW

Description:

read MT-SM in record 1 with extended AT command, read mode set to PREVIEW

Preamble:

ACIATI564

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CMGR=1,1)      |                            |
      *==========================>*                            |
(2)   |                            |       MNSMS_READ_REQ       |
      |                            *==========================>*
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_PLUS_CMGR_REC1_PREV
		cmd_seq	C_PLUS_CMGR_REC1_PREV
(2)	MNSMS_READ_REQ	mem_type	MEM_SM
		read_mode	READ_PREVIEW
		rec_num	SIM_RECORD_1

History: 08-Nov-99 FK Initial

4.46.13 ACIATI568: Read of a SM-MT, Read Mode = STATUS_CHANGE

Description:

read MT-SM in record 1 with extended AT command, read mode set to STATUS_CHANGE

Preamble:

ACIATI564

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CMGR=1,2)      |                            |
      *==========================>*                            |
(2)   |                            |       MNSMS_READ_REQ       |
      |                            *==========================>*
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_PLUS_CMGR_REC1_CHG
		cmd_seq	C_PLUS_CMGR_REC1_CHG
(2)	MNSMS_READ_REQ	mem_type	MEM_SM
		read_mode	READ_STATUS_CHANGE
		rec_num	SIM_RECORD_1

History: 08-Nov-99 FK Initial

4.46.14 ACIATI569: Read of a SM-MT, Read Mode is mistyped

Description:

read MT-SM in record 1 with extended AT command, read mode is mistyped, which shall lead to an error result

Preamble:

ACIATI564

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CMGR=1,11)     |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |         (msg: ERROR)       |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CMGR_REC1_ERR
	cmd_seq	C_PLUS_CMGR_REC1_ERR
(2) ACI_CMD_IND		
	cmd_len	LM_ERROR
	cmd_seq	M_ERROR

History: 08-Nov-99 FK Initial

4.47 Select cell broadcast message types "+CSCB" and "+CSAS" (ACIATI576 – ACIATI595)

4.47.1 ACIATI576: listing of supported modes "+CSCB=?"

Description:

select cell broadcast message types, test supported modes

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |       (cmd: +CSCB=?)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |      (cmd: +CSCB: ...)     |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCB_T
	cmd_seq	C_CSCB_T
(2) ACI_CMD_IND		
	cmd_len	LM_CSCB_T
	cmd_seq	M_CSCB_T
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 22.11.99 DAK Initial

4.47.2 ACIATI577: testing initial settings "+CSCB?"

Description:

select cell broadcast message types, testing initial settings

Preamble:

ACIATI002

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CSCB?)       |                            |
      * ========================== > *                          |
(2)   |         ACI_CMD_IND        |                            |
      |      (cmd: +CSCB: ...)     |                            |
      * < ========================== *                          |
(3)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      * < ========================== *                          |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCB_Q
	cmd_seq	C_CSCB_Q
(2) ACI_CMD_IND		
	cmd_len	LM_CSCB_Q0
	cmd_seq	M_CSCB_Q0
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 22.11.99 DAK Initial

4.47.3 ACIATI578: setting several modes and test it"+CSCB=..."

Description:

select cell broadcast message types, setting several modes

Preamble:

ACIATI002

Variants:

<A>...<D>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CSCB=...)      |                            |
      * ========================== > *                         |
(2)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      * <========================== *                         |
(3)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CSCB?)       |                            |
      * ========================== > *                         |
(4)   |         ACI_CMD_IND        |                            |
      |      (cmd: +CSCB:...)      |                            |
      * <========================== *                         |
(5)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      * <========================== *                         |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_CSCB_S0
<A>	cmd_seq	C_CSCB_S0
<B>	cmd_len	LC_CSCB_S1
<B>	cmd_seq	C_CSCB_S1
<C>	cmd_len	LC_CSCB_S2
<C>	cmd_seq	C_CSCB_S2
<D>	cmd_len	LC_CSCB_S0
<D>	cmd_seq	C_CSCB_S3
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCB_Q
	cmd_seq	C_CSCB_Q
(4) ACI_CMD_IND		
<A>	cmd_len	LM_CSCB_Q1
<A>	cmd_seq	M_CSCB_Q1
<B>	cmd_len	LM_CSCB_Q2
<B>	cmd_seq	M_CSCB_Q2

<C>	cmd_len	LM_CSCB_Q0
<C>	cmd_seq	M_CSCB_Q3
<D>	cmd_len	LM_CSCB_Q1
<D>	cmd_seq	M_CSCB_Q4
(5) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 2.11.99 DAK Initial

4.47.4 ACIATI579: trying to set illegal modes"+CSCB=..."

Description:

select cell broadcast message types, trying to set illegal modes

Preamble:

ACIATI002

Variants:

<A>...<B>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CSCB=...)      |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |      (cmd: CMS ERROR)      |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_CSCB_S2
<A>	cmd_seq	C_CSCB_S4
<B>	cmd_len	LC_CSCB_S1
<B>	cmd_seq	C_CSCB_S5
(2) ACI_CMD_IND		
	cmd_len	LM_CMS_ERR_INV_OPP
	cmd_seq	M_CMS_ERR_INV_OPP

History: 22.11.99 DAK Initial

4.47.5 ACIATI580: Power on Device to get a certain SIM Service Table, Case 1

Description:

The device is powered on with AT+CFUN=1 and activates the SIM. The SIM service table indicates no SMS/CBM parameter files on SIM

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CFUN)        |                            |
      *==========================>*                            |
(2)   |                            |      SIM_ACTIVATE_REQ      |
      |                            *==========================>*
(3)   |                            |      SIM_ACTIVATE_CNF      |
      |                            *<==========================*
(4)   |                            |     SIM_MMI_INSERT_IND     |
      |                            *<==========================*
(5)   |                            |        SIM_READ_REQ        |
      |                            *==========================>*
(6)   |                            |        SIM_READ_CNF        |
      |                            *<==========================*
(7)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
   TIMEOUT(1000)
(8)   |                            |      MNSMS_REPORT_IND      |
      |                            *<==========================*
(9)   |                            |        MMI_CBCH_REQ        |
      |                            *==========================>*
   TIMEOUT(1000)
(10)  |         ACI_CMD_REQ        |                            |
      |        (test: CSCB)        |                            |
      *==========================>*                            |
(11)  |         ACI_CMD_IND        |                            |
      |         (msg: CSCB)        |                            |
      *<==========================*                            |
(12)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(13)  |         ACI_CMD_REQ        |                            |
      |       (query: CSCB)        |                            |
      *==========================>*                            |
(14)  |         ACI_CMD_IND        |                            |
      |         (msg: CSCB)        |                            |
      *<==========================*                            |
(15)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(16)  |         ACI_CMD_REQ        |                            |
      |       (query: CSMP)        |                            |
      *==========================>*                            |
```

```
(17)  |         ACI_CMD_IND         |                              |
      |         (msg: CSMP)         |                              |
      * <========================== *                              |
(18)  |         ACI_CMD_IND         |                              |
      |          (msg: OK)          |                              |
      * <========================== *                              |
(19)  |         ACI_CMD_REQ         |                              |
      |        (query: CSCA)        |                              |
      * ==========================> *                              |
(20)  |         ACI_CMD_IND         |                              |
      |         (msg: CSCA)         |                              |
      * <========================== *                              |
(21)  |         ACI_CMD_IND         |                              |
      |          (msg: OK)          |                              |
      * <========================== *                              |
(22)  |         ACI_CMD_REQ         |                              |
      |        (test: CSAS)         |                              |
      * ==========================> *                              |
(23)  |         ACI_CMD_IND         |                              |
      |         (msg: CSAS)         |                              |
      * <========================== *                              |
(24)  |         ACI_CMD_IND         |                              |
      |          (msg: OK)          |                              |
      * <========================== *                              |
      |                             |                              |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CFUN_FULL
	cmd_seq	C_PLUS_CFUN_FULL
(2) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	NOT_USED
	stk_pro_file	NOT_USED
(3) SIM_ACTIVATE_CNF		
	error	SIM_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
(4) SIM_MMI_INSERT_IND		
	func	SIM_ADN_ENABLED
	sim_serv	F_SIM_SRV_4
	imsi_field	NOT_USED
	pref_plmn	NOT_USED
	phase	PHASE_2_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED
(5) SIM_READ_REQ		
	source	SRC_MMI

	offset	NUM_0
	datafield	SIM_ECC
	length	NOT_PRESENT_8BIT
	max_length	NUM_0
(6) SIM_READ_CNF		
	datafield	SIM_ECC
	error	SIM_NO_ERROR
	length	NUM_12
	trans_data	A_ECC_FIELD
(7) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(8) MNSMS_REPORT_IND		
	cause	CS_SMS_READY
	msg_ref	NOT_PRESENT_8BIT
(9) MMI_CBCH_REQ		
	msg_id	CBM_MID_DEF
	dcs_id	CBM_DCS_DEF
	modus	MMI_CBCH_STOP
(10) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCB_T
	cmd_seq	C_CSCB_T
(11) ACI_CMD_IND		
	cmd_len	LM_CSCB_T
	cmd_seq	M_CSCB_T
(12) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(13) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCB_Q
	cmd_seq	C_CSCB_Q
(14) ACI_CMD_IND		
	cmd_len	LM_CSCB_Q0
	cmd_seq	M_CSCB_Q0
(15) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(16) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSMP_QUERY
	cmd_seq	C_CSMP_QUERY
(17) ACI_CMD_IND		
	cmd_len	LM_CSMP_QUERY_DEF
	cmd_seq	M_CSMP_QUERY_DEF
(18) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(19) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT

	cmd_len	LC_CSCA_QUERY
	cmd_seq	C_CSCA_QUERY
(20) ACI_CMD_IND		
	cmd_len	LM_CSCA_QUERY_DEF
	cmd_seq	M_CSCA_QUERY_DEF
(21) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(22) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSAS_TEST
	cmd_seq	C_CSAS_TEST
(23) ACI_CMD_IND		
	cmd_len	LM_CSAS_TEST_PCM
	cmd_seq	M_CSAS_TEST_PCM
(24) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History:	17.12.99	FK	Initial
	20.01.2000	FK	add MNSMS_REPORT_IND
	04.04.2000	FK	MMI_CBCH_REQ: inital value for <modus> changed

4.47.6 ACIATI581: Power on Device to get a certain SIM Service Table, Case 2

Description:

The device is powered on with AT+CFUN=1 and activates the SIM. The SIM service table indicates EF(SMSP) is present on SIM. The length and number of records is variant.

Preamble:

ACIATI001

Variants: <A>...<G>

```
     APL                           ACI                           PS
      |                             |                             |
(1)   |         ACI_CMD_REQ         |                             |
      |         (cmd: CFUN)         |                             |
      *===========================>*                             |
(2)   |                             |      SIM_ACTIVATE_REQ       |
      |                             *===========================>*
(3)   |                             |      SIM_ACTIVATE_CNF       |
      |                             *<===========================*
(4)   |                             |     SIM_MMI_INSERT_IND      |
      |                             *<===========================*
(25)  |                             |        SIM_READ_REQ         |
      |                             *===========================>*
(26)  |                             |        SIM_READ_CNF         |
      |                             *<===========================*
(5)   |         ACI_CMD_IND         |                             |
      |          (msg: OK)          |                             |
      *<===========================*                             |
   TIMEOUT(1000)
(6)   |                             |      MNSMS_REPORT_IND       |
      |                             *<===========================*
(7)   |                             |    SIM_READ_RECORD_REQ      |
      |                             *===========================>*
(8)   |                             |    SIM_READ_RECORD_CNF      |
      |                             *<===========================*
(9)   |                             |        MMI_CBCH_REQ         |
      |                             *===========================>*
   TIMEOUT(1000)
(10)  |         ACI_CMD_REQ         |                             |
      |        (test: CSCB)         |                             |
      *===========================>*                             |
(11)  |         ACI_CMD_IND         |                             |
      |         (msg: CSCB)         |                             |
      *<===========================*                             |
(12)  |         ACI_CMD_IND         |                             |
      |          (msg: OK)          |                             |
      *<===========================*                             |
(13)  |         ACI_CMD_REQ         |                             |
      |       (query: CSCB)         |                             |
      *===========================>*                             |
```

```
(14)  |          ACI_CMD_IND          |                                |
      |          (msg: CSCB)          |                                |
      * <==========================* |
(15)  |          ACI_CMD_IND          |                                |
      |           (msg: OK)           |                                |
      * <==========================* |
(16)  |          ACI_CMD_REQ          |                                |
      |         (query: CSMP)         |                                |
      * ==========================> * |
(17)  |          ACI_CMD_IND          |                                |
      |          (msg: CSMP)          |                                |
      * <==========================* |
(18)  |          ACI_CMD_IND          |                                |
      |           (msg: OK)           |                                |
      * <==========================* |
(19)  |          ACI_CMD_REQ          |                                |
      |         (query: CSCA)         |                                |
      * ==========================> * |
(20)  |          ACI_CMD_IND          |                                |
      |          (msg: CSCA)          |                                |
      * <==========================* |
(21)  |          ACI_CMD_IND          |                                |
      |           (msg: OK)           |                                |
      * <==========================* |
(22)  |          ACI_CMD_REQ          |                                |
      |         (test: CSAS)          |                                |
      * ==========================> * |
(23)  |          ACI_CMD_IND          |                                |
      |          (msg: CSAS)          |                                |
      * <==========================* |
(24)  |          ACI_CMD_IND          |                                |
      |           (msg: OK)           |                                |
      * <==========================* |
      |                               |                                |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CFUN_FULL
	cmd_seq	C_PLUS_CFUN_FULL
(2) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	NOT_USED
	stk_pro_file	NOT_USED
(3) SIM_ACTIVATE_CNF		
	error	SIM_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
(4) SIM_MMI_INSERT_IND		
	func	SIM_ADN_ENABLED

	sim_serv	F_SIM_SRV_4_12
	imsi_field	NOT_USED
	pref_plmn	NOT_USED
	phase	PHASE_2_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED
(5) SIM_READ_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_ECC
	length	NOT_PRESENT_8BIT
	max_length	NUM_0
(6) SIM_READ_CNF		
	datafield	SIM_ECC
	error	SIM_NO_ERROR
	length	NUM_12
	trans_data	A_ECC_FIELD
(7) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(8) MNSMS_REPORT_IND		
	cause	CS_SMS_READY
	msg_ref	NOT_PRESENT_8BIT
(9) SIM_READ_RECORD_REQ		
	source	SRC_MMI
	datafield	SIM_SMSP
	record	NUM_1
	length	NOT_PRESENT_8BIT
(10) SIM_READ_RECORD_CNF		
	datafield	SIM_SMSP
	error	SIM_NO_ERROR
	record	NUM_1
<A>	max_record	NUM_1
<B>	max_record	NUM_1
<C>	max_record	NUM_2
<D>	max_record	NUM_3
<E>	max_record	NUM_5
<F>	max_record	NUM_1
<G>	max_record	NUM_3
<A>	length	L_SMSP_MIN
<B>	length	L_SMSP_ALPHA_ID
<C>	length	L_SMSP_MIN
<D>	length	L_SMSP_MIN
<E>	length	L_SMSP_MIN
<F>	length	L_SMSP_MIN
<G>	length	L_SMSP_MIN
<A>	linear_data	SMSP_EMPTY
<B>	linear_data	SMSP_CMPL_ALPHA_ID
<C>	linear_data	SMSP_CMPL
<D>	linear_data	SMSP_WO_SCA
<E>	linear_data	SMSP_WO_DA_PID
<F>	linear_data	SMSP_WO_DA_DCS
<G>	linear_data	SMSP_WO_DA_VPREL

(11) MMI_CBCH_REQ

	msg_id	CBM_MID_DEF
	dcs_id	CBM_DCS_DEF
	modus	MMI_CBCH_STOP

(12) ACI_CMD_REQ

	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCB_T
	cmd_seq	C_CSCB_T

(13) ACI_CMD_IND

	cmd_len	LM_CSCB_T
	cmd_seq	M_CSCB_T

(14) ACI_CMD_IND

	cmd_len	LM_OK
	cmd_seq	M_OK

(15) ACI_CMD_REQ

	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCB_Q
	cmd_seq	C_CSCB_Q

(16) ACI_CMD_IND

	cmd_len	LM_CSCB_Q0
	cmd_seq	M_CSCB_Q0

(17) ACI_CMD_IND

	cmd_len	LM_OK
	cmd_seq	M_OK

(18) ACI_CMD_REQ

	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSMP_QUERY
	cmd_seq	C_CSMP_QUERY

(19) ACI_CMD_IND

<A>	cmd_len	LM_CSMP_QUERY_DEF
<B>	cmd_len	LM_CSMP_QUERY_SMSP_CMPL
<C>	cmd_len	LM_CSMP_QUERY_SMSP_CMPL
<D>	cmd_len	LM_CSMP_QUERY_SMSP_CMPL
<E>	cmd_len	LM_CSMP_QUERY_SMSP_WO_PID
<F>	cmd_len	LM_CSMP_QUERY_SMSP_WO_DCS
<G>	cmd_len	LM_CSMP_QUERY_SMSP_WO_VPREL
<A>	cmd_seq	M_CSMP_QUERY_DEF
<B>	cmd_seq	M_CSMP_QUERY_SMSP_CMPL
<C>	cmd_seq	M_CSMP_QUERY_SMSP_CMPL
<D>	cmd_seq	M_CSMP_QUERY_SMSP_CMPL
<E>	cmd_seq	M_CSMP_QUERY_SMSP_WO_PID
<F>	cmd_seq	M_CSMP_QUERY_SMSP_WO_DCS
<G>	cmd_seq	M_CSMP_QUERY_SMSP_WO_VPREL

(20) ACI_CMD_IND

	cmd_len	LM_OK
	cmd_seq	M_OK

(21) ACI_CMD_REQ

	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCA_QUERY
	cmd_seq	C_CSCA_QUERY

(22) ACI_CMD_IND

<A>	cmd_len	LM_CSCA_QUERY_DEF
<B>	cmd_len	LM_CSCA_QUERY1_SMSP
<C>	cmd_len	LM_CSCA_QUERY2_SMSP
<D>	cmd_len	LM_CSCA_QUERY_DEF
<E>	cmd_len	LM_CSCA_QUERY1_SMSP
<F>	cmd_len	LM_CSCA_QUERY1_SMSP
<G>	cmd_len	LM_CSCA_QUERY1_SMSP
<A>	cmd_seq	M_CSCA_QUERY_DEF
<B>	cmd_seq	M_CSCA_QUERY1_SMSP
<C>	cmd_seq	M_CSCA_QUERY2_SMSP
<D>	cmd_seq	M_CSCA_QUERY_DEF
<E>	cmd_seq	M_CSCA_QUERY1_SMSP
<F>	cmd_seq	M_CSCA_QUERY1_SMSP
<G>	cmd_seq	M_CSCA_QUERY1_SMSP

(23) ACI_CMD_IND

	cmd_len	LM_OK
	cmd_seq	M_OK

(24) ACI_CMD_REQ

	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSAS_TEST
	cmd_seq	C_CSAS_TEST

(25) ACI_CMD_IND

	cmd_len	LM_CSAS_TEST_SMSP
<A>	cmd_seq	M_CSAS_TEST_SMSP_1
<B>	cmd_seq	M_CSAS_TEST_SMSP_1
<C>	cmd_seq	M_CSAS_TEST_SMSP_2
<D>	cmd_seq	M_CSAS_TEST_SMSP_3
<E>	cmd_seq	M_CSAS_TEST_SMSP_5
<F>	cmd_seq	M_CSAS_TEST_SMSP_1
<G>	cmd_seq	M_CSAS_TEST_SMSP_3

(26) ACI_CMD_IND

	cmd_len	LM_OK
	cmd_seq	M_OK

History: 17.12.99 FK Initial
20.01.2000 FK add MNSMS_REPORT_IND
04.04.2000 FK MMI_CBCH_REQ: inital value for <modus> changed

4.47.7 ACIATI582: Power on Device to get a certain SIM Service Table, Case 3

Description:

The device is powered on with AT+CFUN=1 and activates the SIM. The SIM service table indicates EF(CBMIR) is present on SIM. The length and intial value is variant.

Preamble:

ACIATI001

Variants: <A>...<J>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CFUN)        |                            |
      *==========================>*                            |
(2)   |                            |      SIM_ACTIVATE_REQ      |
      |                            *==========================>*
(3)   |                            |      SIM_ACTIVATE_CNF      |
      |                            *<==========================*
(4)   |                            |     SIM_MMI_INSERT_IND     |
      |                            *<==========================*
(5)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
   TIMEOUT(1000)
(6)   |                            |      MNSMS_REPORT_IND      |
      |                            *<==========================*
(7)   |                            |        SIM_READ_REQ        |
      |                            *==========================>*
(8)   |                            |        SIM_READ_CNF        |
      |                            *<==========================*
(9)   |                            |        MMI_CBCH_REQ        |
      |                            *==========================>*
   TIMEOUT(1000)
(10)  |         ACI_CMD_REQ        |                            |
      |         (test: CSCB)       |                            |
      *==========================>*                            |
(11)  |         ACI_CMD_IND        |                            |
      |         (msg: CSCB)        |                            |
      *<==========================*                            |
(12)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(13)  |         ACI_CMD_REQ        |                            |
      |        (query: CSCB)       |                            |
      *==========================>*                            |
(14)  |         ACI_CMD_IND        |                            |
      |         (msg: CSCB)        |                            |
      *<==========================*                            |
(15)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
```

```
(16)  |         ACI_CMD_REQ         |                            |
      |         (cmd: CNMI)         |                            |
      *===========================>*                            |
(17)  |                             |    MNSMS_CONFIGURE_REQ     |
      |                             *===========================>*
(18)  |                             |        MMI_CBCH_REQ        |
      |                             *===========================>*
(19)  |         ACI_CMD_IND         |                            |
      |          (msg: OK)          |                            |
      *<===========================*                            |
(20)  |         ACI_CMD_REQ         |                            |
      |        (query: CSMP)        |                            |
      *===========================>*                            |
(21)  |         ACI_CMD_IND         |                            |
      |         (msg: CSMP)         |                            |
      *<===========================*                            |
(22)  |         ACI_CMD_IND         |                            |
      |          (msg: OK)          |                            |
      *<===========================*                            |
(23)  |         ACI_CMD_REQ         |                            |
      |        (query: CSCA)        |                            |
      *===========================>*                            |
(24)  |         ACI_CMD_IND         |                            |
      |         (msg: CSCA)         |                            |
      *<===========================*                            |
(25)  |         ACI_CMD_IND         |                            |
      |          (msg: OK)          |                            |
      *<===========================*                            |
(26)  |         ACI_CMD_REQ         |                            |
      |        (test: CSAS)         |                            |
      *===========================>*                            |
(27)  |         ACI_CMD_IND         |                            |
      |         (msg: CSAS)         |                            |
      *<===========================*                            |
(28)  |         ACI_CMD_IND         |                            |
      |          (msg: OK)          |                            |
      *<===========================*                            |
      |                             |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_PLUS_CFUN_FULL
		cmd_seq	C_PLUS_CFUN_FULL
(2)	SIM_ACTIVATE_REQ		
		proc	SIM_INITIALISATION
		mmi_pro_file	NOT_USED
		stk_pro_file	NOT_USED
(3)	SIM_ACTIVATE_CNF		
		error	SIM_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
(4) SIM_MMI_INSERT_IND		
	func	SIM_ADN_ENABLED
	sim_serv	F_SIM_SRV_4_30
	imsi_field	NOT_USED
	pref_plmn	NOT_USED
	phase	PHASE_2_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED
(5) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(6) MNSMS_REPORT_IND		
	cause	CS_SMS_READY
	msg_ref	NOT_PRESENT_8BIT
(7) SIM_READ_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_CBMIR
	length	NOT_PRESENT_8BIT
	max_length	NUM_255
(8) SIM_READ_CNF		
	datafield	SIM_CBMIR
	error	SIM_NO_ERROR
<A>	length	L_CBMIR_1
<B>	length	L_CBMIR_1
<C>	length	L_CBMIR_1
<D>	length	L_CBMIR_2
<E>	length	L_CBMIR_2
<F>	length	L_CBMIR_2
<G>	length	L_CBMIR_5
<H>	length	L_CBMIR_10
<I>	length	L_CBMIR_11
<J>	length	L_CBMIR_11
<A>	trans_data	CBMIR_DEF
<B>	trans_data	CBMIR_1E_1V
<C>	trans_data	CBMIR_1E_1R
<D>	trans_data	CBMIR_2E_1R1
<E>	trans_data	CBMIR_2E_1R2
<F>	trans_data	CBMIR_2E_2R
<G>	trans_data	CBMIR_5E_5R
<H>	trans_data	CBMIR_10E_10R
<I>	trans_data	CBMIR_11E_10R
<J>	trans_data	CBMIR_11E_11R
(9) MMI_CBCH_REQ		
	msg_id	CBM_MID_DEF
	dcs_id	CBM_DCS_DEF
	modus	MMI_CBCH_STOP
(10) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCB_T
	cmd_seq	C_CSCB_T

(11) ACI_CMD_IND		
	cmd_len	LM_CSCB_TEST_ACC
	cmd_seq	M_CSCB_TEST_ACC
(12) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(13) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCB_Q
	cmd_seq	C_CSCB_Q
(14) ACI_CMD_IND		
<A>	cmd_len	LM_CSCB_Q0
<B>	cmd_len	LM_CSCB_QUERY_1V
<C>	cmd_len	LM_CSCB_QUERY_1R
<D>	cmd_len	LM_CSCB_QUERY_1R
<E>	cmd_len	LM_CSCB_QUERY_1R
<F>	cmd_len	LM_CSCB_QUERY_2R
<G>	cmd_len	LM_CSCB_QUERY_5R
<H>	cmd_len	LM_CSCB_QUERY_10R
<I>	cmd_len	LM_CSCB_QUERY_10R
<J>	cmd_len	LM_CSCB_QUERY_10R
<A>	cmd_seq	M_CSCB_Q0
<B>	cmd_seq	M_CSCB_QUERY_1V
<C>	cmd_seq	M_CSCB_QUERY_1R
<D>	cmd_seq	M_CSCB_QUERY_1R
<E>	cmd_seq	M_CSCB_QUERY_1R
<F>	cmd_seq	M_CSCB_QUERY_2R
<G>	cmd_seq	M_CSCB_QUERY_5R
<H>	cmd_seq	M_CSCB_QUERY_10R
<I>	cmd_seq	M_CSCB_QUERY_10R
<J>	cmd_seq	M_CSCB_QUERY_10R
(15) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(16) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CNMI_ONLY_CBM
	cmd_seq	C_CNMI_ONLY_CBM
(17) MNSMS_CONFIGURE_REQ		
	pref_mem_3	NOT_USED
	mt	NOT_USED
	ds	NOT_USED
	mhc	NOT_USED
(18) MMI_CBCH_REQ		
<A>	msg_id	CBM_MID_DEF
<B>	msg_id	CBM_MID_1V
<C>	msg_id	CBM_MID_1R
<D>	msg_id	CBM_MID_1R
<E>	msg_id	CBM_MID_1R
<F>	msg_id	CBM_MID_2R
<G>	msg_id	CBM_MID_5R
<H>	msg_id	CBM_MID_10R
<I>	msg_id	CBM_MID_10R
<J>	msg_id	CBM_MID_10R

	dcs_id	CBM_DCS_DEF
	modus	CBCH_ACCEPT
(19) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(20) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSMP_QUERY
	cmd_seq	C_CSMP_QUERY
(21) ACI_CMD_IND		
	cmd_len	LM_CSMP_QUERY_DEF
	cmd_seq	M_CSMP_QUERY_DEF
(22) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(23) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCA_QUERY
	cmd_seq	C_CSCA_QUERY
(24) ACI_CMD_IND		
	cmd_len	LM_CSCA_QUERY_DEF
	cmd_seq	M_CSCA_QUERY_DEF
(25) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(26) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSAS_TEST
	cmd_seq	C_CSAS_TEST
(27) ACI_CMD_IND		
	cmd_len	LM_CSAS_TEST_PCM
	cmd_seq	M_CSAS_TEST_PCM
(28) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 17.12.99 FK Initial
20.01.2000 FK add MNSMS_REPORT_IND
04.04.2000 FK MMI_CBCH_REQ: inital value for <modus> changed, +CNMI added

4.47.8 ACIATI583: Power on Device to get a certain SIM Service Table, Case 6

Description:

The device is powered on with AT+CFUN=1 and activates the SIM. The SIM service table indicates EF(SMSP) and EF(CBMI) are present on SIM. The file sizes and their intial entries are variant.

Preamble:

ACIATI001

Variants: <A>...<E>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CFUN)        |                            |
      *==========================>*                            |
(2)   |                            |      SIM_ACTIVATE_REQ      |
      |                            *==========================>*
(3)   |                            |      SIM_ACTIVATE_CNF      |
      |                            *<==========================*
(4)   |                            |     SIM_MMI_INSERT_IND     |
      |                            *<==========================*
(5)   |                            |        SIM_READ_REQ        |
      |                            *==========================>*
(6)   |                            |        SIM_READ_CNF        |
      |                            *<==========================*
(7)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
   TIMEOUT(1000)
(8)   |                            |      MNSMS_REPORT_IND      |
      |                            *<==========================*
(9)   |                            |    SIM_READ_RECORD_REQ     |
      |                            *==========================>*
(10)  |                            |    SIM_READ_RECORD_CNF     |
      |                            *<==========================*
(11)  |                            |        SIM_READ_REQ        |
      |                            *==========================>*
(12)  |                            |        SIM_READ_CNF        |
      |                            *<==========================*
(13)  |                            |        MMI_CBCH_REQ        |
      |                            *==========================>*
   TIMEOUT(1000)
(14)  |         ACI_CMD_REQ        |                            |
      |         (test: CSCB)       |                            |
      *==========================>*                            |
(15)  |         ACI_CMD_IND        |                            |
      |         (msg: CSCB)        |                            |
      *<==========================*                            |
(16)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
```

```
(17)  |         ACI_CMD_REQ         |                            |
      |        (query: CSCB)        |                            |
      * ==========================> *                            |
(18)  |         ACI_CMD_IND         |                            |
      |         (msg: CSCB)         |                            |
      * <========================== *                            |
(19)  |         ACI_CMD_IND         |                            |
      |          (msg: OK)          |                            |
      * <========================== *                            |
(20)  |         ACI_CMD_REQ         |                            |
      |         (cmd: CNMI)         |                            |
      * ==========================> *                            |
(21)  |                             |    MNSMS_CONFIGURE_REQ     |
      |                             * ==========================> *
(22)  |                             |        MMI_CBCH_REQ        |
      |                             * ==========================> *
(23)  |         ACI_CMD_IND         |                            |
      |          (msg: OK)          |                            |
      * <========================== *                            |
(24)  |         ACI_CMD_REQ         |                            |
      |        (query: CSMP)        |                            |
      * ==========================> *                            |
(25)  |         ACI_CMD_IND         |                            |
      |         (msg: CSMP)         |                            |
      * <========================== *                            |
(26)  |         ACI_CMD_IND         |                            |
      |          (msg: OK)          |                            |
      * <========================== *                            |
(27)  |         ACI_CMD_REQ         |                            |
      |        (query: CSCA)        |                            |
      * ==========================> *                            |
(28)  |         ACI_CMD_IND         |                            |
      |         (msg: CSCA)         |                            |
      * <========================== *                            |
(29)  |         ACI_CMD_IND         |                            |
      |          (msg: OK)          |                            |
      * <========================== *                            |
(30)  |         ACI_CMD_REQ         |                            |
      |        (test: CSAS)         |                            |
      * ==========================> *                            |
(31)  |         ACI_CMD_IND         |                            |
      |         (msg: CSAS)         |                            |
      * <========================== *                            |
(32)  |         ACI_CMD_IND         |                            |
      |          (msg: OK)          |                            |
      * <========================== *                            |
      |                             |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CFUN_FULL
	cmd_seq	C_PLUS_CFUN_FULL
(2) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION

	mmi_pro_file	NOT_USED
	stk_pro_file	NOT_USED
(3) SIM_ACTIVATE_CNF		
	error	SIM_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
(4) SIM_MMI_INSERT_IND		
	func	SIM_ADN_ENABLED
	sim_serv	F_SIM_SRV_4_12_14
	imsi_field	NOT_USED
	pref_plmn	NOT_USED
	phase	PHASE_2_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED
(5) SIM_READ_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_ECC
	length	NOT_PRESENT_8BIT
	max_length	NUM_0
(6) SIM_READ_CNF		
	datafield	SIM_ECC
	error	SIM_NO_ERROR
	length	NUM_12
	trans_data	A_ECC_FIELD
(7) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(8) MNSMS_REPORT_IND		
	cause	CS_SMS_READY
	msg_ref	NOT_PRESENT_8BIT
(9) SIM_READ_RECORD_REQ		
	source	SRC_MMI
	datafield	SIM_SMSP
	record	NUM_1
	length	NOT_PRESENT_8BIT
(10) SIM_READ_RECORD_CNF		
	datafield	SIM_SMSP
	error	SIM_NO_ERROR
	record	NUM_1
	max_record	NUM_3
<A>	length	L_SMSP_MIN
<B>	length	L_SMSP_MIN
<C>	length	L_SMSP_ALPHA_ID
<D>	length	L_SMSP_MIN
<E>	length	L_SMSP_ALPHA_ID
<A>	linear_data	SMSP_EMPTY
<B>	linear_data	SMSP_CMPL
<C>	linear_data	SMSP_CMPL_ALPHA_ID

<D>	linear_data	SMSP_EMPTY
<E>	linear_data	SMSP_CMPL_ALPHA_ID
(11) SIM_READ_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_CBMI
	length	NOT_PRESENT_8BIT
	max_length	NUM_255
(12) SIM_READ_CNF		
	datafield	SIM_CBMI
	error	SIM_NO_ERROR
<A>	length	L_CBMI_10
<B>	length	L_CBMI_10
<C>	length	L_CBMI_10
<D>	length	L_CBMI_10
<E>	length	L_CBMI_12
<A>	trans_data	CBMI_10E_2V1
<B>	trans_data	CBMI_10E_2V2
<C>	trans_data	CBMI_10E_2V3
<D>	trans_data	CBMI_10E_2V4
<E>	trans_data	CBMI_12E
(13) MMI_CBCH_REQ		
	msg_id	CBM_MID_DEF
	dcs_id	CBM_DCS_DEF
	modus	MMI_CBCH_STOP
(14) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCB_T
	cmd_seq	C_CSCB_T
(15) ACI_CMD_IND		
	cmd_len	LM_CSCB_TEST_ACC
	cmd_seq	M_CSCB_TEST_ACC
(16) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(17) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCB_Q
	cmd_seq	C_CSCB_Q
(18) ACI_CMD_IND		
<A>	cmd_len	LM_CSCB_QUERY_2V
<B>	cmd_len	LM_CSCB_QUERY_2V
<C>	cmd_len	LM_CSCB_QUERY_2V
<D>	cmd_len	LM_CSCB_QUERY_2V
<E>	cmd_len	LM_CSCB_QUERY_DEF
<A>	cmd_seq	M_CSCB_QUERY_2V
<B>	cmd_seq	M_CSCB_QUERY_2V
<C>	cmd_seq	M_CSCB_QUERY_2V
<D>	cmd_seq	M_CSCB_QUERY_2V
<E>	cmd_seq	M_CSCB_QUERY_DEF
(19) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

(20) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CNMI_ONLY_CBM
	cmd_seq	C_CNMI_ONLY_CBM
(21) MNSMS_CONFIGURE_REQ		
	pref_mem_3	NOT_USED
	mt	NOT_USED
	ds	NOT_USED
	mhc	NOT_USED
(22) MMI_CBCH_REQ		
<A>	msg_id	CBM_MID_2V
<B>	msg_id	CBM_MID_2V
<C>	msg_id	CBM_MID_2V
<D>	msg_id	CBM_MID_2V
<E>	msg_id	CBM_MID_DEF
	dcs_id	CBM_DCS_DEF
	modus	CBCH_ACCEPT
(23) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(24) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSMP_QUERY
	cmd_seq	C_CSMP_QUERY
(25) ACI_CMD_IND		
<A>	cmd_len	LM_CSMP_QUERY_DEF
<B>	cmd_len	LM_CSMP_QUERY_SMSP_CMPL
<C>	cmd_len	LM_CSMP_QUERY_SMSP_CMPL
<D>	cmd_len	LM_CSMP_QUERY_DEF
<E>	cmd_len	LM_CSMP_QUERY_SMSP_CMPL
<A>	cmd_seq	M_CSMP_QUERY_DEF
<B>	cmd_seq	M_CSMP_QUERY_SMSP_CMPL
<C>	cmd_seq	M_CSMP_QUERY_SMSP_CMPL
<D>	cmd_seq	M_CSMP_QUERY_DEF
<E>	cmd_seq	M_CSMP_QUERY_SMSP_CMPL
(26) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(27) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCA_QUERY
	cmd_seq	C_CSCA_QUERY
(28) ACI_CMD_IND		
<A>	cmd_len	LM_CSCA_QUERY_DEF
<B>	cmd_len	LM_CSCA_QUERY2_SMSP
<C>	cmd_len	LM_CSCA_QUERY1_SMSP
<D>	cmd_len	LM_CSCA_QUERY_DEF
<E>	cmd_len	LM_CSCA_QUERY1_SMSP
<A>	cmd_seq	M_CSCA_QUERY_DEF
<B>	cmd_seq	M_CSCA_QUERY2_SMSP
<C>	cmd_seq	M_CSCA_QUERY1_SMSP
<D>	cmd_seq	M_CSCA_QUERY_DEF
<E>	cmd_seq	M_CSCA_QUERY1_SMSP

(29) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(30) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_CSAS_TEST
cmd_seq	C_CSAS_TEST

(31) ACI_CMD_IND

cmd_len	LM_CSAS_TEST_SMSP
cmd_seq	M_CSAS_TEST_SMSP_3

(32) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History: 26.01.2000 FK Initial
04.04.2000 FK MMI_CBCH_REQ: inital value for <modus> changed, +CNMI added

4.47.9 ACIATI584: Power on Device to get a certain SIM Service Table, Case 8

Description:

The device is powered on with AT+CFUN=1 and activates the SIM. The SIM service table indicates EF(SMSP), EF(CBMIR) and EF(CBMI) are present on SIM. The file sizes and their intial entries are variant.

Preamble:

ACIATI001

Variants: <A>...<E>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CFUN)        |                            |
      *==========================>*                            |
(2)   |                            |      SIM_ACTIVATE_REQ      |
      |                            *==========================>*
(3)   |                            |      SIM_ACTIVATE_CNF      |
      |                            *<==========================*
(4)   |                            |     SIM_MMI_INSERT_IND     |
      |                            *<==========================*
(5)   |                            |        SIM_READ_REQ        |
      |                            *==========================>*
(6)   |                            |        SIM_READ_CNF        |
      |                            *<==========================*
(7)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
   TIMEOUT(1000)
(8)   |                            |      MNSMS_REPORT_IND      |
      |                            *<==========================*
(9)   |                            |    SIM_READ_RECORD_REQ     |
      |                            *==========================>*
(10)  |                            |    SIM_READ_RECORD_CNF     |
      |                            *<==========================*
(11)  |                            |        SIM_READ_REQ        |
      |                            *==========================>*
(12)  |                            |        SIM_READ_CNF        |
      |                            *<==========================*
(13)  |                            |        SIM_READ_REQ        |
      |                            *==========================>*
(14)  |                            |        SIM_READ_CNF        |
      |                            *<==========================*
(15)  |                            |        MMI_CBCH_REQ        |
      |                            *==========================>*
   TIMEOUT(1000)
(16)  |         ACI_CMD_REQ        |                            |
      |        (test: CSCB)        |                            |
      *==========================>*                            |
(17)  |         ACI_CMD_IND        |                            |
      |         (msg: CSCB)        |                            |
      *<==========================*                            |
```

```
(18)  |         ACI_CMD_IND         |                             |
      |          (msg: OK)          |                             |
      * <==========================* |                             |
(19)  |         ACI_CMD_REQ         |                             |
      |        (query: CSCB)        |                             |
      * ==========================> * |                             |
(20)  |         ACI_CMD_IND         |                             |
      |         (msg: CSCB)         |                             |
      * <==========================* |                             |
(21)  |         ACI_CMD_IND         |                             |
      |          (msg: OK)          |                             |
      * <==========================* |                             |
(22)  |         ACI_CMD_REQ         |                             |
      |         (cmd: CNMI)         |                             |
      * ==========================> * |                             |
(23)  |                             |    MNSMS_CONFIGURE_REQ      |
      |                             * ==========================> *
(24)  |                             |        MMI_CBCH_REQ         |
      |                             * ==========================> *
(25)  |         ACI_CMD_IND         |                             |
      |          (msg: OK)          |                             |
      * <==========================* |                             |
(26)  |         ACI_CMD_REQ         |                             |
      |        (query: CSMP)        |                             |
      * ==========================> * |                             |
(27)  |         ACI_CMD_IND         |                             |
      |         (msg: CSMP)         |                             |
      * <==========================* |                             |
(28)  |         ACI_CMD_IND         |                             |
      |          (msg: OK)          |                             |
      * <==========================* |                             |
(29)  |         ACI_CMD_REQ         |                             |
      |        (query: CSCA)        |                             |
      * ==========================> * |                             |
(30)  |         ACI_CMD_IND         |                             |
      |         (msg: CSCA)         |                             |
      * <==========================* |                             |
(31)  |         ACI_CMD_IND         |                             |
      |          (msg: OK)          |                             |
      * <==========================* |                             |
(32)  |         ACI_CMD_REQ         |                             |
      |        (test: CSAS)         |                             |
      * ==========================> * |                             |
(33)  |         ACI_CMD_IND         |                             |
      |         (msg: CSAS)         |                             |
      * <==========================* |                             |
(34)  |         ACI_CMD_IND         |                             |
      |          (msg: OK)          |                             |
      * <==========================* |                             |
      |                             |                             |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_CFUN_FULL
	cmd_seq	C_PLUS_CFUN_FULL

(2) SIM_ACTIVATE_REQ

	proc	SIM_INITIALISATION
	mmi_pro_file	NOT_USED
	stk_pro_file	NOT_USED

(3) SIM_ACTIVATE_CNF

	error	SIM_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

(4) SIM_MMI_INSERT_IND

	func	SIM_ADN_ENABLED
	sim_serv	F_SIM_SRV_4_12_14_30
	imsi_field	NOT_USED
	pref_plmn	NOT_USED
	phase	PHASE_2_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED

(5) SIM_READ_REQ

	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_ECC
	length	NOT_PRESENT_8BIT
	max_length	NUM_0

(6) SIM_READ_CNF

	datafield	SIM_ECC
	error	SIM_NO_ERROR
	length	NUM_12
	trans_data	A_ECC_FIELD

(7) ACI_CMD_IND

	cmd_len	LM_OK
	cmd_seq	M_OK

(8) MNSMS_REPORT_IND

	cause	CS_SMS_READY
	msg_ref	NOT_PRESENT_8BIT

(9) SIM_READ_RECORD_REQ

	source	SRC_MMI
	datafield	SIM_SMSP
	record	NUM_1
	length	NOT_PRESENT_8BIT

(10) SIM_READ_RECORD_CNF

	datafield	SIM_SMSP
	error	SIM_NO_ERROR
	record	NUM_1
	max_record	NUM_3
<A>	length	L_SMSP_MIN
<B>	length	L_SMSP_MIN
<C>	length	L_SMSP_ALPHA_ID
<D>	length	L_SMSP_MIN
<E>	length	L_SMSP_MIN
<A>	linear_data	SMSP_EMPTY

<B>	linear_data	SMSP_CMPL
<C>	linear_data	SMSP_CMPL_ALPHA_ID
<D>	linear_data	SMSP_EMPTY
<E>	linear_data	SMSP_CMPL
(11) SIM_READ_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_CBMIR
	length	NOT_PRESENT_8BIT
	max_length	NUM_255
(12) SIM_READ_CNF		
	datafield	SIM_CBMIR
	error	SIM_NO_ERROR
<A>	length	L_CBMIR_2
<B>	length	L_CBMIR_2
<C>	length	L_CBMIR_5
<D>	length	L_CBMIR_10
<E>	length	L_CBMIR_5
<A>	trans_data	CBMIR_2E_1R2
<B>	trans_data	CBMIR_2E_2R
<C>	trans_data	CBMIR_5E_5R
<D>	trans_data	CBMIR_10E_10R
<E>	trans_data	CBMIR_5E_5R
(13) SIM_READ_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_CBMI
	length	NOT_PRESENT_8BIT
	max_length	NUM_255
(14) SIM_READ_CNF		
	datafield	SIM_CBMI
	error	SIM_NO_ERROR
	length	L_CBMI_10
<A>	trans_data	CBMI_10E_2V1
<B>	trans_data	CBMI_10E_2V2
<C>	trans_data	CBMI_10E_2V3
<D>	trans_data	CBMI_10E_2V4
<E>	trans_data	CBMI_10E_2V3
(15) MMI_CBCH_REQ		
	msg_id	CBM_MID_DEF
	dcs_id	CBM_DCS_DEF
	modus	MMI_CBCH_STOP
(16) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCB_T
	cmd_seq	C_CSCB_T
(17) ACI_CMD_IND		
	cmd_len	LM_CSCB_TEST_ACC
	cmd_seq	M_CSCB_TEST_ACC
(18) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

(19) ACI_CMD_REQ

	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCB_Q
	cmd_seq	C_CSCB_Q

(20) ACI_CMD_IND

<A>	cmd_len	LM_CSCB_QUERY_1R_2V
<B>	cmd_len	LM_CSCB_QUERY_2R_2V
<C>	cmd_len	LM_CSCB_QUERY_5R_2V
<D>	cmd_len	LM_CSCB_QUERY_10R
<E>	cmd_len	LM_CSCB_QUERY_5R_2V
<A>	cmd_seq	M_CSCB_QUERY_1R_2V
<B>	cmd_seq	M_CSCB_QUERY_2R_2V
<C>	cmd_seq	M_CSCB_QUERY_5R_2V
<D>	cmd_seq	M_CSCB_QUERY_10R
<E>	cmd_seq	M_CSCB_QUERY_5R_2V

(21) ACI_CMD_IND

	cmd_len	LM_OK
	cmd_seq	M_OK

(22) ACI_CMD_REQ

	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CNMI_ONLY_CBM
	cmd_seq	C_CNMI_ONLY_CBM

(23) MNSMS_CONFIGURE_REQ

	pref_mem_3	NOT_USED
	mt	NOT_USED
	ds	NOT_USED
	mhc	NOT_USED

(24) MMI_CBCH_REQ

<A>	msg_id	CBM_MID_1R_2V
<B>	msg_id	CBM_MID_2R_2V
<C>	msg_id	CBM_MID_5R_2V
<D>	msg_id	CBM_MID_10R
<E>	msg_id	CBM_MID_5R_2V
	dcs_id	CBM_DCS_DEF
	modus	CBCH_ACCEPT

(25) ACI_CMD_IND

	cmd_len	LM_OK
	cmd_seq	M_OK

(26) ACI_CMD_REQ

	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSMP_QUERY
	cmd_seq	C_CSMP_QUERY

(27) ACI_CMD_IND

<A>	cmd_len	LM_CSMP_QUERY_DEF
<B>	cmd_len	LM_CSMP_QUERY_SMSP_CMPL
<C>	cmd_len	LM_CSMP_QUERY_SMSP_CMPL
<D>	cmd_len	LM_CSMP_QUERY_DEF
<E>	cmd_len	LM_CSMP_QUERY_SMSP_CMPL
<A>	cmd_seq	M_CSMP_QUERY_DEF
<B>	cmd_seq	M_CSMP_QUERY_SMSP_CMPL
<C>	cmd_seq	M_CSMP_QUERY_SMSP_CMPL
<D>	cmd_seq	M_CSMP_QUERY_DEF
<E>	cmd_seq	M_CSMP_QUERY_SMSP_CMPL

(28) ACI_CMD_IND

	cmd_len	LM_OK
	cmd_seq	M_OK

(29) ACI_CMD_REQ

	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCA_QUERY
	cmd_seq	C_CSCA_QUERY

(30) ACI_CMD_IND

<A>	cmd_len	LM_CSCA_QUERY_DEF
<B>	cmd_len	LM_CSCA_QUERY2_SMSP
<C>	cmd_len	LM_CSCA_QUERY1_SMSP
<D>	cmd_len	LM_CSCA_QUERY_DEF
<E>	cmd_len	LM_CSCA_QUERY2_SMSP
<A>	cmd_seq	M_CSCA_QUERY_DEF
<B>	cmd_seq	M_CSCA_QUERY2_SMSP
<C>	cmd_seq	M_CSCA_QUERY1_SMSP
<D>	cmd_seq	M_CSCA_QUERY_DEF
<E>	cmd_seq	M_CSCA_QUERY2_SMSP

(31) ACI_CMD_IND

	cmd_len	LM_OK
	cmd_seq	M_OK

(32) ACI_CMD_REQ

	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSAS_TEST
	cmd_seq	C_CSAS_TEST

(33) ACI_CMD_IND

	cmd_len	LM_CSAS_TEST_SMSP
	cmd_seq	M_CSAS_TEST_SMSP_3

(34) ACI_CMD_IND

	cmd_len	LM_OK
	cmd_seq	M_OK

History:			
	21.12.99	FK	Initial
	20.01.2000	FK	Add MNSMS_REPORT_IND
	26.01.2000	FK	Variant C modified, Variant E new
	04.04.2000	FK	MMI_CBCH_REQ: inital value for <modus> changed, +CNMI added

4.47.10 ACIATI585: Set SMS/CBM Parameters

Description:

The preamble indicates storage for SMS/CBM parameters on SIM {EF(SMSP), EF(CBMIR), EF(CBMI)}. New settings are set with the appropriate AT commands and stored on SIM using record 3 of EF(SMSP).

Preamble:

ACIATI584E

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CSCA)        |                            |
      * ========================== *                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      * <========================== *                            |
(3)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CSMP)        |                            |
      * ========================== *                            |
(4)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      * <========================== *                            |
(5)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CSCB)        |                            |
      * ========================== *                            |
(6)   |                            |        MMI_CBCH_REQ        |
      |                            * ========================== *
(7)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      * <========================== *                            |
(8)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CSAS)        |                            |
      * ========================== *                            |
(9)   |                            |   SIM_UPDATE_RECORD_REQ    |
      |                            * ========================== *
(10)  |                            |   SIM_UPDATE_RECORD_CNF    |
      |                            * <========================== *
(11)  |                            |       SIM_UPDATE_REQ       |
      |                            * ========================== *
(12)  |                            |       SIM_UPDATE_CNF       |
      |                            * <========================== *
(13)  |                            |       SIM_UPDATE_REQ       |
      |                            * ========================== *
(14)  |                            |       SIM_UPDATE_CNF       |
      |                            * <========================== *
(15)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      * <========================== *                            |
(16)  |         ACI_CMD_REQ        |                            |
      |         (cmd: CSCB)        |                            |
      * ========================== *                            |
```

```
(17)  |          ACI_CMD_IND          |                                |
      |           (msg: OK)           |                                |
      * <==========================   *                                |
(18)  |          ACI_CMD_REQ          |                                |
      |          (cmd: CSCB)          |                                |
      * ==========================>   *                                |
(19)  |          ACI_CMD_IND          |                                |
      |           (msg: OK)           |                                |
      * <==========================   *                                |
      |                               |                                |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCA_BOTH_CORRECT
	cmd_seq	C_CSCA_BOTH_CORRECT
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSMP_CORRECT
	cmd_seq	C_CSMP_CORRECT
(4) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(5) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCB_ACCEPT_MIDS_ON
	cmd_seq	C_CSCB_ACCEPT_MIDS_ON
(6) MMI_CBCH_REQ		
	msg_id	CBM_MIDS_ON
	dcs_id	NOT_USED
	modus	CBCH_ACCEPT
(7) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(8) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSAS
	cmd_seq	C_CSAS_3
(9) SIM_UPDATE_RECORD_REQ		
	source	SRC_MMI
	datafield	SIM_SMSP
	record	NUM_3
	length	L_SMSP_MIN
	linear_data	SMSP_CORRECT_U
(10) SIM_UPDATE_RECORD_CNF		
	datafield	SIM_SMSP
	record	NUM_3
	error	SIM_NO_ERROR

(11) SIM_UPDATE_REQ

source	SRC_MMI
offset	NUM_0
datafield	SIM_CBMIR
length	L_CBMIR_5
trans_data	CBMIR_ON_U

(12) SIM_UPDATE_CNF

datafield	SIM_CBMIR
error	SIM_NO_ERROR

(13) SIM_UPDATE_REQ

source	SRC_MMI
offset	NUM_0
datafield	SIM_CBMI
length	L_CBMI_10
trans_data	CBMI_ON_U

(14) SIM_UPDATE_CNF

datafield	SIM_CBMI
error	SIM_NO_ERROR

(15) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(16) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_CSCB_T
cmd_seq	C_CSCB_T

(17) ACI_CMD_IND

cmd_len	LM_CSCB_TEST_ACC
cmd_seq	M_CSCB_TEST_ACC

(18) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_CSCB_Q
cmd_seq	C_CSCB_Q

(19) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History:	22.12.99	FK	Initial
	26.01.2000	FK	Preamble set to ACIATI584E

4.47.11 ACIATI586: Select Cell Broadcast Message Types

Description:

The types of cell broadcast messages which will be received by the mobile are selected successfully.

Preamble:

ACIATI412

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CSCB)        |                            |
      *==========================>*                            |
(2)   |                            |        MMI_CBCH_REQ        |
      |                            *==========================>*
(3)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CSCB_ACCEPT_MIDS_ON
		cmd_seq	C_CSCB_ACCEPT_MIDS_ON
(2)	MMI_CBCH_REQ		
		msg_id	CBM_MID_DEF
		dcs_id	CBM_DCS_DEF
		modus	MMI_CBCH_STOP
(3)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History: 15.12.98 SAB Initial
04.04.2000 FK MMI_CBCH_REQ: value for <modus> changed, +CNMI is not yet set

4.47.12 ACIATI587: Query Selected Cell Broadcast Message Types

Description:
The selected cell broadcast message types are queried successfully.

Preamble:
ACIATI586

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CSCB)        |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |         (msg: CSCB)        |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CSCB_Q
		cmd_seq	C_CSCB_Q
(2)	ACI_CMD_IND		
		cmd_len	LM_CSCB_QUERY
		cmd_seq	M_CSCB_QUERY
(3)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History: 15.12.98 SAB Initial

4.47.13 ACIATI588: Select Cell Broadcast Message Types

Description:
The types of cell broadcast messages which will be received by the mobile are selected successfully.

Preamble:
ACIATI457

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CSCB)        |                            |
      *==========================>*                            |
(2)   |                            |        MMI_CBCH_REQ        |
      |                            *==========================>*
(3)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
```

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

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CSCB_ACCEPT_MIDS_ON
		cmd_seq	C_CSCB_ACCEPT_MIDS_ON
(2)	MMI_CBCH_REQ		
		msg_id	CBM_MIDS_ON
		dcs_id	CBM_DCS_ON
		modus	CBCH_ACCEPT
(3)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History: 15.12.98 SAB Initial

4.47.14 ACIATI589: Select Cell Broadcast Message Types

Description:

The types of cell broadcast messages which will be received by the mobile are selected successfully.

Preamble:

ACIATI457

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CSCB)        |                            |
      * ==========================> *                            |
(2)   |                            |        MMI_CBCH_REQ        |
      |                            * ==========================> *
(3)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      * <==========================*                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CSCB_IGNORE_ALL
		cmd_seq	C_CSCB_IGNORE_ALL
(2)	MMI_CBCH_REQ		
		msg_id	NOT_USED
		dcs_id	NOT_USED
		modus	CBCH_IGNORE
(3)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History: 15.12.98 SAB Initial

4.47.15 ACIATI590: Select Broadcast Message Types

Description:

Select broadcast message types. The ranges exceed the supported amount, therefor an error is returned.

Preamble:

ACIATI412

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CSCB)        |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CSCB_SETTING
		cmd_seq	C_CSCB_SETTING
(2)	ACI_CMD_IND		
		cmd_len	LM_ERROR
		cmd_seq	M_ERROR

History: 15.12.98 SAB Initial
15.02.2000 FK Response added

4.47.16 ACIATI591: Set SMS/CBM Parameters

Description:

The preamble indicates storage for SMS/CBM parameters on SIM {EF(SMSP) with alpha identifier, EF(CBMI)}. New settings are set with the appropriate AT commands and stored on SIM using record 3 of EF(SMSP).

Preamble:

ACIATI583C

Variants: <A>...<B>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CSCA)        |                            |
      * ========================== *                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      * <========================== *                            |
(3)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CSMP)        |                            |
      * ========================== *                            |
(4)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      * <========================== *                            |
(5)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CSCB)        |                            |
      * ========================== *                            |
(6)   |                            |        MMI_CBCH_REQ        |
      |                            * ========================== *
(7)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      * <========================== *                            |
(8)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CSAS)        |                            |
      * ========================== *                            |
(9)   |                            |   SIM_UPDATE_RECORD_REQ    |
      |                            * ========================== *
(10)  |                            |   SIM_UPDATE_RECORD_CNF    |
      |                            * <========================== *
(11)  |                            |       SIM_UPDATE_REQ       |
      |                            * ========================== *
(12)  |                            |       SIM_UPDATE_CNF       |
      |                            * <========================== *
(13)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      * <========================== *                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT

	cmd_len	LC_CSCA_BOTH_CORRECT
	cmd_seq	C_CSCA_BOTH_CORRECT
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSMP_CORRECT
	cmd_seq	C_CSMP_CORRECT
(4) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(5) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_CSCB_ACCEPT_MID_SGL4
<B>	cmd_len	LC_CSCB_ACCEPT_MID_SGL7
<A>	cmd_seq	C_CSCB_ACCEPT_MID_SGL4
<B>	cmd_seq	C_CSCB_ACCEPT_MID_SGL7
(6) MMI_CBCH_REQ		
<A>	msg_id	CBM_MID_SGL4
<B>	msg_id	CBM_MID_SGL7
	dcs_id	NOT_USED
	modus	CBCH_ACCEPT
(7) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(8) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSAS
	cmd_seq	C_CSAS_3
(9) SIM_UPDATE_RECORD_REQ		
	source	SRC_MMI
	datafield	SIM_SMSP
	record	NUM_3
	length	L_SMSP_ALPHA_ID
	linear_data	SMSP_CORRECT_ALPHA_ID_U
(10) SIM_UPDATE_RECORD_CNF		
	datafield	SIM_SMSP
	record	NUM_3
	error	SIM_NO_ERROR
(11) SIM_UPDATE_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_CBMI
	length	L_CBMI_10
<A>	trans_data	CBMI_SGL4_U
<B>	trans_data	CBMI_SGL7_U
(12) SIM_UPDATE_CNF		
	datafield	SIM_CBMI
	error	SIM_NO_ERROR

(13) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History: 26.01.2000 FK Initial

4.48 Restore Setting "+CRES" (ACIATI596 – ACIATI605)

4.48.1 ACIATI596: Read previously stored SMS/CBM parameters from SIM

Description:

The preamble indicates storing of SMS/CBM parameters on SIM using EF(SMSP) record 3. The parameters are read back and queried with the appropriate AT commands.

Preamble:

ACIATI585

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |        (cmd: CRES)         |                            |
      *==========================>*                            |
(2)   |                            |    SIM_READ_RECORD_REQ     |
      |                            *==========================>*
(3)   |                            |    SIM_READ_RECORD_CNF     |
      |                            *<==========================*
(4)   |                            |        SIM_READ_REQ        |
      |                            *==========================>*
(5)   |                            |        SIM_READ_CNF        |
      |                            *<==========================*
(6)   |                            |        SIM_READ_REQ        |
      |                            *==========================>*
(7)   |                            |        SIM_READ_CNF        |
      |                            *<==========================*
(8)   |                            |        MMI_CBCH_REQ        |
      |                            *==========================>*
(9)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
(10)  |        ACI_CMD_REQ         |                            |
      |       (query: CSCB)        |                            |
      *==========================>*                            |
(11)  |        ACI_CMD_IND         |                            |
      |        (msg: CSCB)         |                            |
      *<==========================*                            |
(12)  |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
(13)  |        ACI_CMD_REQ         |                            |
      |       (query: CSMP)        |                            |
      *==========================>*                            |
(14)  |        ACI_CMD_IND         |                            |
      |        (msg: CSMP)         |                            |
      *<==========================*                            |
(15)  |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<==========================*                            |
(16)  |        ACI_CMD_REQ         |                            |
      |       (query: CSCA)        |                            |
      *==========================>*                            |
```

```
(17)  |         ACI_CMD_IND         |                              |
      |         (msg: CSCA)         |                              |
      *<==========================*                              |
(18)  |         ACI_CMD_IND         |                              |
      |          (msg: OK)          |                              |
      *<==========================*                              |
      |                             |                              |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CRES
		cmd_seq	C_CRES_3
(2)	SIM_READ_RECORD_REQ		
		source	SRC_MMI
		datafield	SIM_SMSP
		record	NUM_3
		length	L_SMSP_MIN
(3)	SIM_READ_RECORD_CNF		
		datafield	SIM_SMSP
		error	SIM_NO_ERROR
		record	NUM_3
		max_record	NUM_3
		length	L_SMSP_MIN
		linear_data	SMSP_CORRECT_R
(4)	SIM_READ_REQ		
		source	SRC_MMI
		offset	NUM_0
		datafield	SIM_CBMIR
		length	NOT_PRESENT_8BIT
		max_length	L_CBMIR_5
(5)	SIM_READ_CNF		
		datafield	SIM_CBMIR
		error	SIM_NO_ERROR
		length	L_CBMIR_5
		trans_data	CBMIR_ON_R
(6)	SIM_READ_REQ		
		source	SRC_MMI
		offset	NUM_0
		datafield	SIM_CBMI
		length	NOT_PRESENT_8BIT
		max_length	L_CBMI_10
(7)	SIM_READ_CNF		
		datafield	SIM_CBMI
		error	SIM_NO_ERROR
		length	L_CBMI_10
		trans_data	CBMI_ON_R
(8)	MMI_CBCH_REQ		
		msg_id	CBM_MIDS_ON_SIM
		dcs_id	NOT_USED
		modus	CBCH_ACCEPT

(9) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(10) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_CSCB_Q
cmd_seq	C_CSCB_Q

(11) ACI_CMD_IND

cmd_len	LM_CSCB_QUERY_SIM
cmd_seq	M_CSCB_QUERY_SIM

(12) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(13) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_CSMP_QUERY
cmd_seq	C_CSMP_QUERY

(14) ACI_CMD_IND

cmd_len	LM_CSMP_QUERY
cmd_seq	M_CSMP_QUERY_CORRECT

(15) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(16) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_CSCA_QUERY
cmd_seq	C_CSCA_QUERY

(17) ACI_CMD_IND

cmd_len	LM_CSCA_QUERY
cmd_seq	M_CSCA_QUERY

(18) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History: 22.12.99 FK Initial

4.48.2 ACIATI597: Read inital SMS/CBM parameters from SIM (record 1) after reading record 3

Description:

The preamble indicates reading back of SMS/CBM parameters on SIM usinf EF(SMSP) record 3. The parameters from record 1 are read back and queried with the appropriate AT commands. The queries +CSCA and +CSCB have to deliver different result, but the query +CSCB not. Only the VP bits of the parameter <f0> are changed.

Preamble:

ACIATI596

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CRES)        |                            |
      *==========================>*                            |
(2)   |                            |    SIM_READ_RECORD_REQ     |
      |                            *==========================>*
(3)   |                            |    SIM_READ_RECORD_CNF     |
      |                            *<==========================*
(4)   |                            |        SIM_READ_REQ        |
      |                            *==========================>*
(5)   |                            |        SIM_READ_CNF        |
      |                            *<==========================*
(6)   |                            |        SIM_READ_REQ        |
      |                            *==========================>*
(7)   |                            |        SIM_READ_CNF        |
      |                            *<==========================*
(8)   |                            |        MMI_CBCH_REQ        |
      |                            *==========================>*
(9)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(10)  |         ACI_CMD_REQ        |                            |
      |        (query: CSCB)       |                            |
      *==========================>*                            |
(11)  |         ACI_CMD_IND        |                            |
      |         (msg: CSCB)        |                            |
      *<==========================*                            |
(12)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(13)  |         ACI_CMD_REQ        |                            |
      |        (query: CSMP)       |                            |
      *==========================>*                            |
(14)  |         ACI_CMD_IND        |                            |
      |         (msg: CSMP)        |                            |
      *<==========================*                            |
(15)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(16)  |         ACI_CMD_REQ        |                            |
      |        (query: CSCA)       |                            |
      *==========================>*                            |
(17)  |         ACI_CMD_IND        |                            |
      |         (msg: CSCA)        |                            |
      *<==========================*                            |
```

```
(18)  |          ACI_CMD_IND          |                                |
      |           (msg: OK)           |                                |
      *<==========================*                                |
      |                               |                                |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CRES
		cmd_seq	C_CRES_1
(2)	SIM_READ_RECORD_REQ		
		source	SRC_MMI
		datafield	SIM_SMSP
		record	NUM_1
		length	L_SMSP_MIN
(3)	SIM_READ_RECORD_CNF		
		datafield	SIM_SMSP
		error	SIM_NO_ERROR
		record	NUM_1
		max_record	NUM_3
		length	L_SMSP_MIN
		linear_data	SMSP_CMPL
(4)	SIM_READ_REQ		
		source	SRC_MMI
		offset	NUM_0
		datafield	SIM_CBMIR
		length	NOT_PRESENT_8BIT
		max_length	L_CBMIR_5
(5)	SIM_READ_CNF		
		datafield	SIM_CBMIR
		error	SIM_NO_ERROR
		length	L_CBMIR_5
		trans_data	CBMIR_ON_R
(6)	SIM_READ_REQ		
		source	SRC_MMI
		offset	NUM_0
		datafield	SIM_CBMI
		length	NOT_PRESENT_8BIT
		max_length	L_CBMI_10
(7)	SIM_READ_CNF		
		datafield	SIM_CBMI
		error	SIM_NO_ERROR
		length	L_CBMI_10
		trans_data	CBMI_ON_R
(8)	MMI_CBCH_REQ		
		msg_id	CBM_MIDS_ON_SIM
		dcs_id	NOT_USED
		modus	CBCH_ACCEPT
(9)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

(10) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_CSCB_Q
cmd_seq	C_CSCB_Q

(11) ACI_CMD_IND

cmd_len	LM_CSCB_QUERY_SIM
cmd_seq	M_CSCB_QUERY_SIM

(12) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(13) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_CSMP_QUERY
cmd_seq	C_CSMP_QUERY

(14) ACI_CMD_IND

cmd_len	LM_CSMP_QUERY_SMSP_CMPL
cmd_seq	M_CSMP_QUERY_SMSP_CMPL_MOD

(15) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(16) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_CSCA_QUERY
cmd_seq	C_CSCA_QUERY

(17) ACI_CMD_IND

cmd_len	LM_CSCA_QUERY2_SMSP
cmd_seq	M_CSCA_QUERY2_SMSP

(18) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History: 22.12.99 FK Initial

4.48.3 ACIATI598: Read previously stored SMS/CBM parameters from SIM

Description:

The preamble indicates storing of SMS/CBM parameters on SIM using EF(SMSP) record 3. The parameters are read back and queried with the appropriate AT commands.

Preamble:

ACIATI591A

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CRES)        |                            |
      *==========================>*                            |
(2)   |                            |    SIM_READ_RECORD_REQ     |
      |                            *==========================>*
(3)   |                            |    SIM_READ_RECORD_CNF     |
      |                            *<==========================*
(4)   |                            |        SIM_READ_REQ        |
      |                            *==========================>*
(5)   |                            |        SIM_READ_CNF        |
      |                            *<==========================*
(6)   |                            |        MMI_CBCH_REQ        |
      |                            *==========================>*
(7)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(8)   |         ACI_CMD_REQ        |                            |
      |        (query: CSCB)       |                            |
      *==========================>*                            |
(9)   |         ACI_CMD_IND        |                            |
      |         (msg: CSCB)        |                            |
      *<==========================*                            |
(10)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(11)  |         ACI_CMD_REQ        |                            |
      |        (query: CSMP)       |                            |
      *==========================>*                            |
(12)  |         ACI_CMD_IND        |                            |
      |         (msg: CSMP)        |                            |
      *<==========================*                            |
(13)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(14)  |         ACI_CMD_REQ        |                            |
      |        (query: CSCA)       |                            |
      *==========================>*                            |
(15)  |         ACI_CMD_IND        |                            |
      |         (msg: CSCA)        |                            |
      *<==========================*                            |
(16)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CRES
	cmd_seq	C_CRES_3
(2) SIM_READ_RECORD_REQ		
	source	SRC_MMI
	datafield	SIM_SMSP
	record	NUM_3
	length	L_SMSP_ALPHA_ID
(3) SIM_READ_RECORD_CNF		
	datafield	SIM_SMSP
	error	SIM_NO_ERROR
	record	NUM_3
	max_record	NUM_3
	length	L_SMSP_ALPHA_ID
	linear_data	SMSP_CORRECT_ALPHA_ID_R
(4) SIM_READ_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_CBMI
	length	NOT_PRESENT_8BIT
	max_length	L_CBMI_10
(5) SIM_READ_CNF		
	datafield	SIM_CBMI
	error	SIM_NO_ERROR
	length	L_CBMI_10
	trans_data	CBMI_SGL4_R
(6) MMI_CBCH_REQ		
	msg_id	CBM_MID_SGL4
	dcs_id	NOT_USED
	modus	CBCH_ACCEPT
(7) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(8) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCB_Q
	cmd_seq	C_CSCB_Q
(9) ACI_CMD_IND		
	cmd_len	LM_CSCB_QUERY_SGL4
	cmd_seq	M_CSCB_QUERY_SGL4
(10) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(11) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSMP_QUERY
	cmd_seq	C_CSMP_QUERY

(12)	ACI_CMD_IND		
		cmd_len	LM_CSMP_QUERY
		cmd_seq	M_CSMP_QUERY_CORRECT
(13)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK
(14)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CSCA_QUERY
		cmd_seq	C_CSCA_QUERY
(15)	ACI_CMD_IND		
		cmd_len	LM_CSCA_QUERY
		cmd_seq	M_CSCA_QUERY
(16)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History: 26.01.2000 FK Initial

4.48.4 ACIATI599: Read inital SMS/CBM parameters from SIM (record 1) after reading record 3

Description:

The preamble indicates reading back of SMS/CBM parameters on SIM usinf EF(SMSP) record 3. The parameters from record 1 are read back and queried with the appropriate AT commands. The queries +CSCA and +CSCB have to deliver different result, but the query +CSCB not. Only the VP bits of the parameter <f0> are changed.

Preamble:

ACIATI598

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |         (cmd: CRES)        |                            |
      *==========================>*                            |
(2)   |                            |    SIM_READ_RECORD_REQ     |
      |                            *==========================>*
(3)   |                            |    SIM_READ_RECORD_CNF     |
      |                            *<==========================*
(4)   |                            |        SIM_READ_REQ        |
      |                            *==========================>*
(5)   |                            |        SIM_READ_CNF        |
      |                            *<==========================*
(6)   |                            |        MMI_CBCH_REQ        |
      |                            *==========================>*
(7)   |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(8)   |         ACI_CMD_REQ        |                            |
      |        (query: CSCB)       |                            |
      *==========================>*                            |
(9)   |         ACI_CMD_IND        |                            |
      |         (msg: CSCB)        |                            |
      *<==========================*                            |
(10)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(11)  |         ACI_CMD_REQ        |                            |
      |        (query: CSMP)       |                            |
      *==========================>*                            |
(12)  |         ACI_CMD_IND        |                            |
      |         (msg: CSMP)        |                            |
      *<==========================*                            |
(13)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
(14)  |         ACI_CMD_REQ        |                            |
      |        (query: CSCA)       |                            |
      *==========================>*                            |
(15)  |         ACI_CMD_IND        |                            |
      |         (msg: CSCA)        |                            |
      *<==========================*                            |
(16)  |         ACI_CMD_IND        |                            |
      |          (msg: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CRES
		cmd_seq	C_CRES_1
(2)	SIM_READ_RECORD_REQ		
		source	SRC_MMI
		datafield	SIM_SMSP
		record	NUM_1
		length	L_SMSP_ALPHA_ID
(3)	SIM_READ_RECORD_CNF		
		datafield	SIM_SMSP
		error	SIM_NO_ERROR
		record	NUM_1
		max_record	NUM_3
		length	L_SMSP_ALPHA_ID
		linear_data	SMSP_CMPL_ALPHA_ID
(4)	SIM_READ_REQ		
		source	SRC_MMI
		offset	NUM_0
		datafield	SIM_CBMI
		length	NOT_PRESENT_8BIT
		max_length	L_CBMI_10
(5)	SIM_READ_CNF		
		datafield	SIM_CBMI
		error	SIM_NO_ERROR
		length	L_CBMI_10
		trans_data	CBMI_SGL4_R
(6)	MMI_CBCH_REQ		
		msg_id	CBM_MID_SGL4
		dcs_id	NOT_USED
		modus	CBCH_ACCEPT
(7)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK
(8)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CSCB_Q
		cmd_seq	C_CSCB_Q
(9)	ACI_CMD_IND		
		cmd_len	LM_CSCB_QUERY_SGL4
		cmd_seq	M_CSCB_QUERY_SGL4
(10)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK
(11)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CSMP_QUERY
		cmd_seq	C_CSMP_QUERY

(12)	ACI_CMD_IND		
		cmd_len	LM_CSMP_QUERY_SMSP_CMPL
		cmd_seq	M_CSMP_QUERY_SMSP_CMPL_MOD
(13)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK
(14)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CSCA_QUERY
		cmd_seq	C_CSCA_QUERY
(15)	ACI_CMD_IND		
		cmd_len	LM_CSCA_QUERY1_SMSP
		cmd_seq	M_CSCA_QUERY1_SMSP
(16)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History: 26.01.2000 FK Initial

4.49 Network registration info "+CREG" (ACIATI606 – ACIATI615)

4.49.1 ACIATI606: Test "+CREG=?"

Description:

Network registration info, list of supported types

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: +CREG=?)        |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |     (cmd: +CREG: ...)      |                            |
      *<==========================*                            |
(3)   |        ACI_CMD_IND         |                            |
      |         (cmd: OK)          |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CREG_T
	cmd_seq	C_CREG_T
(2) ACI_CMD_IND		
	cmd_len	LM_CREG_T
	cmd_seq	M_CREG_T

(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 22.10.99 DAK Initial

4.49.2 ACIATI607: Test "+CREG?"

Description:

Network registration info, testing initial settings

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CREG?)       |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |       (cmd: +CREG: 0)      |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CREG_Q
	cmd_seq	C_CREG_Q
(2) ACI_CMD_IND		
	cmd_len	LM_CREG_Q
	cmd_seq	M_CREG_Q0
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 22.10.99 DAK Initial

4.49.3 ACIATI608: Test "+CREG=..."

Description:

Network registration info, setting modes and test whether modes are setted

Preamble:

ACIATI001

Variants: <A>....<B>

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |         ACI_CMD_REQ        |                            |
      |      (cmd: +CREG=...)      |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
(3)   |         ACI_CMD_REQ        |                            |
      |        (cmd: +CREG?)       |                            |
      *==========================>*                            |
(4)   |         ACI_CMD_IND        |                            |
      |      (cmd: +CREG: ...)     |                            |
      *<==========================*                            |
(5)   |         ACI_CMD_IND        |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CREG_S
<A>	cmd_seq	C_CREG_S0
<B>	cmd_seq	C_CREG_S1
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CREG_Q
	cmd_seq	C_CREG_Q
(4) ACI_CMD_IND		
	cmd_len	LM_CREG_Q
<A>	cmd_seq	M_CREG_Q0
<B>	cmd_seq	M_CREG_Q1
(5) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History:	23.10.99	DAK	Initial

4.49.4 ACIATI609: Test "+CREG=2"

Description:

Network registration info, setting of illegal modes

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: +CREG=2)        |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |        (cmd: ERROR)        |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CREG_S
		cmd_seq	C_CREG_S9
(2)	ACI_CMD_IND		
		cmd_len	LM_ERROR
		cmd_seq	M_ERROR

History: 23.10.99 DAK Initial

4.50 Read Operator names "+COPN" (ACIATI616 – ACIATI625)

4.50.1 ACIATI616: Test "+COPN=?"

Description:

Read operator names

Preamble:

ACIATI001

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |      (cmd: +CPON=?)        |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND         |                            |
      |          (cmd: OK)         |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT

		cmd_len	LC_COPN_T
		cmd_seq	C_COPN_T
(2) ACI_CMD_IND			
		cmd_len	LM_OK
		cmd_seq	M_OK
History:	23.10.99	DAK	Initial