GSM Fax & Data Services

Test Specification ASC

Author: Condat AG
Alt-Moabit 91d
D-10559 Berlin
Germany

Date: 12. November 1999
Document No.: 8415.078.99.002
File: ASC.DOC

Table of Contents

0 Document Control

Every effort has been made to ensure that the information contained in this document is accurate at the time of printing. However, the software described in this document is subject to continuous development and improvement. Condat GmbH reserves the right to change the specification of the software. Information in this document is subject to change without notice and does not represent a commitment on the part of Condat GmbH. Condat GmbH accepts no liability for any loss or damage arising from the use of any information contained in this document.

Condat DV-Beratung
Organisation und Software GmbH
Alt Moabit 91d
10559 Berlin
Germany

Telephone: +49.30.39094-0
Fax: +49.30.39094-300
Internet: http://www.condat.de
E-mail: gsm@condat.de

Document History

Document Id.	Date	Author	Remarks
xxxx.xxx.xx.xxx	05. January 1999	SAB	Initial

0.1 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;
Asynchronous facsimile DCE control - service class 1
(ITU-T.31, 1995)

[4] ITU-T Recommendation T.32; Terminals for telematic services;
Asynchronous facsimile DCE control - service class 2
(ITU-T.32, 1995)

[5] Rec. T.35; Terminal equipment and protocols for telematic services;
Procedures for the allocation of CCITT definde codes for non-standard facilities;
(CCITT-T.35, 1991)

[6] ITU-T Recommendation V.25 ter; Series V: data communication over the telephone network;
Interfaces and voiceband modems; Serial asynchronous automatic dialling and control
(ITU-T V.25 ter, 1997)

[7] Rec. V.42 bis Data compression procedures for data circuit terminating equipment (DCE) using error correction procedures;
(CCITT-V.42 bis, 1990)

[8] Rec. V.110 (Blue book, Vol. VIII, Fascicle VIII.1) Support of data terminal equipments (DTEs) with V-series type interfaces by an integrated services digital network (ISDN);
(CCITT-V.110, 1988)

[9] European digital cellular telecommunications system (Phase 2);
GSM Public Land Mobile Network (PLMN) connection types;
(GSM 3.10, September 1994, version 4.3.1)

[10] European digital cellular telecommunications system (Phase 2);
Technical realisation of facsimile group 3 transparent;
(GSM 3.45, September 1995, version 4.5.0)

[11] Digital cellular telecommunications system (Phase 2);
Mobile radio interface layer 3 specification;
(GSM 4.08, November 1996, version 4.17.0)

[12] European digital cellular telecommunications system (Phase 2);
Rate adaptation on the Mobile Station - Base Station System (MS - BSS) Interface;
(GSM 4.21, May 1995, version 4.6.0)

[13] European digital cellular telecommunications system (Phase 2);
Radio Link Protocol (RLP) for data and telematic services on the Mobile Station - Base Station System (MS - BSS) interface and the Base Station System - Mobile-service Switching Centre (BSS - MSC) interface
(GSM 4.22, September 1994, version 4.3.0)

[14] European digital cellular telecommunications system (Phase 2);
Radio Link Protocol (RLP) for data and telematic services on the Mobile Station - Base Station System (MS - BSS) interface and the Base Station System - Mobile-service Switching Centre (BSS - MSC) interface
(Amendment prA1 for GSM 4.22, version 4.3.0)
(GSM 4.22, March 1995, version 4.4.0)

[15] European digital cellular telecommunications system (Phase 2);
General on Terminal Adaptation Functions (TAF) for Mobile Stations (MS);
(GSM 7.01, December 1995, version 4.10.0)

[16] European digital cellular telecommunications system (Phase 2);
Terminal Adaptation Functions (TAF) for services using asynchronous bearer capabilities;
(GSM 7.02, September 1994, version 4.5.1)

[17] European digital cellular telecommunications system (Phase 2);
Terminal Adaptation Functions (TAF) for services using synchronous bearer capabilities;
(GSM 7.03, September 1994, version 4.5.1)

[18] Digital cellular telecommunications system (Phase 2);
Use of Data Terminal Equipment - Data Circuit terminating Equipment (DTE - DCE) interface for Short Message Service (SMS) and Cell Broadcast Services (CBS);
(GSM 7.05, November 1996, version 4.8.0)

[19] Digital cellular telecommunications system (Phase 2);
AT command set for GSM Mobile Equipment (ME)
(GSM 7.07, May 1996, version 4.1.0)

[20] Digital cellular telecommunication system (Phase 2);
Mobile Station (MS) conformance specification;
Part 1: Conformance specification
(GSM 11.10-1, November 1996, version 4.17.0)

[21] Digital cellular telecommunications system (Phase 2);
Mobile Station (MS) conformance specification;
Part 2: Protocol Implementation Conformance Statement (PICS)
proforma specification
(GSM 11.10-2, May 1996, version 4.15.0)

[22] Digital cellular telecommunications system (Phase 2);
Mobile Station (MS) conformance specification;
Part 3: Layer 3 (L3) Abstract Test Suite (ATS)
(GSM 11.10-3, November 1996, version 4.17.0)

[23] Proposal for Rate Adaptation implemented on a DSP;
(C. Bianconi, Texas Instruments, January 1998, version 1.0)

[24] MCU-DSP Interfaces for Data Applications;
Specification S844
(C. Bianconi, Texas Instruments, March 1998, version 0.1)

[25] Users Guide
6147.300.96.100; Condat GmbH

[26] Service Access Point RA
8411.100.98.100; Condat GmbH

[27] Service Access Point RLP
8411.101.98.100; Condat GmbH

[28] Service Access Point L2R
8411.102.98.100; Condat GmbH

[29] Service Access Point FAD
8411.103.98.100; Condat GmbH

[30] Service Access Point T30
8411.104.98.100; Condat GmbH

[31] Service Access Point ACI
8411.105.98.100; Condat GmbH

[32] Message Sequence Charts RLP
8411.201.98.100; Condat GmbH

[33] Message Sequence Charts L2R
8411.202.98.100; Condat GmbH

[34] Message Sequence Charts FAD
8411.203.98.100; Condat GmbH

[35] Message Sequence Charts T30
8411.204.98.100; Condat GmbH

[36] Message Sequence Charts ACI
8411.205.98.100; Condat GmbH

[37] Proposal for Fax & Data Integration; March 1998
8411.300.98.100; Condat GmbH

[38] Test Specification RLP
8411.401.98.100; Condat GmbH

[39] Test Specification L2R
8411.402.98.100; Condat GmbH

[40] Test Specification FAD
8411.403.98.100; Condat GmbH

[41] Test Specification T30
8411.404.98.100; Condat GmbH

[42] Test Specification ACI
8411.405.98.100; Condat GmbH

[43] SDL Specification RLP
8411.501.98.100; Condat GmbH

[44] SDL Specification L2R
8411.502.98.100; Condat GmbH

[45] SDL Specification FAD
8411.503.98.100; Condat GmbH

[46] SDL Specification T30
8411.504.98.100; Condat GmbH

[47] SDL Specification ACI
8411.505.98.100; Condat GmbH

[48] Technical Documentation RLP
8411.701.98.100; Condat GmbH

[49] Technical Documentation L2R
8411.702.98.100; Condat GmbH

[50] Technical Documentation FAD
8411.703.98.100; Condat GmbH

[51] Technical Documentation T30
8411.704.98.100; Condat GmbH

[52] Technical Documentation ACI
8411.705.98.100; Condat GmbH

0.2 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(R)	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(R)	Receive State Variable
V(S)	Send State Variable
VPLMN	Visiting Public Land Mobile Network

0.3 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).

1 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 :

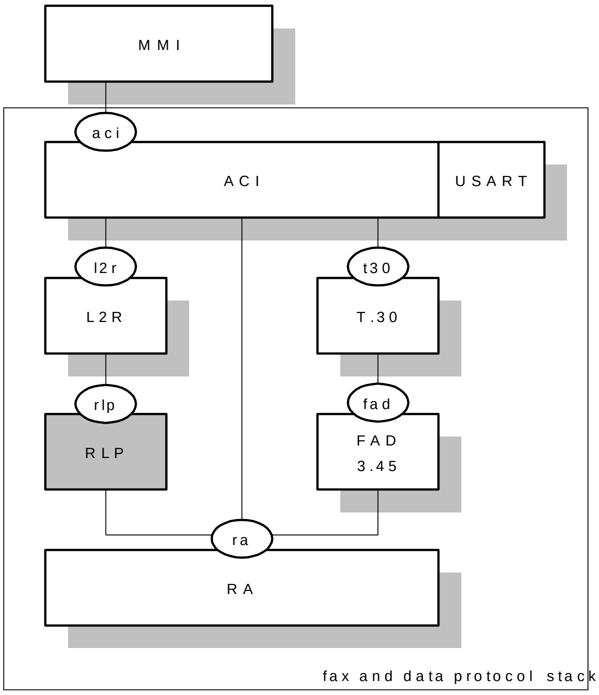

Figure 1-1: Architecture of the fax and data protocol stack

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:

1.1 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.

1.2 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.

1.3 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.

1.4 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.

1.5 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.

1.6 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.

1.7 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 fable to perform flow control.

2 Parameters

/* Declarative Statements */

/* Declarations */

```
DECLARATION(A_AD_FIELD_CI_DISABLED)
DECLARATION(A_ECC_FIELD)
DECLARATION(DA_98765)
DECLARATION(DA_98765_CONTENT)
DECLARATION(DA_491723987630)
DECLARATION(DA_491723987630_CONTENT)
DECLARATION(DA_14254448849)
DECLARATION(DA_14254448849_CONTENT)
DECLARATION(SA_12345)
DECLARATION(SA_12345_CONTENT)
DECLARATION(OA_98765)
DECLARATION(OA_98765_CONTENT)
DECLARATION(OA_987654)
DECLARATION(OA_987654_CONTENT)
DECLARATION(DA_654321)
DECLARATION(DA_654321_CONTENT)
DECLARATION(NO_DA)
DECLARATION(RA_987654)
DECLARATION(RA_987654_CONTENT)
DECLARATION(SMS_MO_CONTENT)
DECLARATION(SMS_MO_CONTENT_CONTENT)
DECLARATION(SMS_MT_CONTENT)
DECLARATION(SMS_MT_CONTENT_CONTENT)
DECLARATION(VP_A9801071234564)
DECLARATION(VP_A9801071234564_YEAR)
DECLARATION(VP_A9801071234564_MONTH)
DECLARATION(VP_A9801071234564_DAY)
DECLARATION(VP_A9801071234564_HOUR)
DECLARATION(VP_A9801071234564_MINUTE)
DECLARATION(VP_A9801071234564_SECOND)
DECLARATION(SC_TIME_9801071234564)
DECLARATION(RC_TIME_9801071234504)
DECLARATION(MSG_ID_3_7_11_TO_13_14PLUS)
DECLARATION(DCS_ID_0_PLUS)
DECLARATION(YEAR_98)
DECLARATION(MONTH_01)
DECLARATION(MONTH_12)
DECLARATION(DAY_02)
DECLARATION(DAY_07)
DECLARATION(HOUR_01)
DECLARATION(HOUR_12)
DECLARATION(MINUTE_34)
DECLARATION(MINUTE_35)
DECLARATION(MINUTE_52)
DECLARATION(SECOND_13)
DECLARATION(SECOND_50)
DECLARATION(SECOND_56)
DECLARATION(SECOND_59)
DECLARATION(CBCH_MSG_1)
DECLARATION(CBCH_MSG_2)
DECLARATION(CBCH_MSG_3)
DECLARATION(CBCH_MSG_4)
DECLARATION(STATUS_6)
DECLARATION(STATUS_5)
DECLARATION(STATUS_PDU)
DECLARATION(CMD_DATA_EMPTY)
DECLARATION(WITH_CMD_DATA)
DECLARATION(WITH_CMD_DATA_CONTENT)
DECLARATION(D_CMD_DATA_EMPTY)
DECLARATION(SM7_ABC)
DECLARATION(SM7_ABC_17)
DECLARATION(SM7_ABC_MS)
DECLARATION(SM7_ABCDEFGHI)



DECLARATION(SM7_EMPTY)
DECLARATION(SM7_ABCDEFGHI_01)
DECLARATION(D_SM7_ABCDEFGHI_01)
DECLARATION(SM7_ABCDEFGHI_02)
DECLARATION(D_SM7_ABCDEFGHI_02)
DECLARATION(SM7_ABCDEFGHI_03)
DECLARATION(D_SM7_ABCDEFGHI_03)
DECLARATION(SM7_ABCDEFGHI_04)
DECLARATION(D_SM7_ABCDEFGHI_04)
DECLARATION(SM7_ABCDEFGHI_05)
DECLARATION(D_SM7_ABCDEFGHI_05)
DECLARATION(SM7_ABCDEFGHI_06)
DECLARATION(D_SM7_ABCDEFGHI_06)
DECLARATION(SM7_ABCDEFGHI_07)
DECLARATION(D_SM7_ABCDEFGHI_07)
DECLARATION(SM7_ABCDEFGHI_08)
DECLARATION(D_SM7_ABCDEFGHI_08)
DECLARATION(SM7_ABCDEFGHI_09)
DECLARATION(D_SM7_ABCDEFGHI_09)
DECLARATION(SM7_ABCDEFGHI_10)
DECLARATION(D_SM7_ABCDEFGHI_10)
DECLARATION(SM7_ABCDEFGHI_11)
DECLARATION(D_SM7_ABCDEFGHI_11)
DECLARATION(SM7_ABCDEFGHI_12)
DECLARATION(D_SM7_ABCDEFGHI_12)
DECLARATION(SM7_ABC_01)
DECLARATION(D_SM7_ABC_01)
DECLARATION(SM7_ABC_17_01)
DECLARATION(D_SM7_ABC_17_01)
DECLARATION(SM7_SPECIAL_SIGNS_01)
DECLARATION(D_SM7_SPECIAL_SIGNS_01)
DECLARATION(SM8_HEX_SPECIAL_SIGNS_01)
DECLARATION(D_SM8_HEX_SPECIAL_SIGNS_01)
DECLARATION(SM7_ABC_MS_01)
DECLARATION(D_SM7_ABC_MS_01)
DECLARATION(SUBMIT_REPORT_ACK_01)
DECLARATION(D_SUBMIT_REPORT_ACK_01)
DECLARATION(SUBMIT_REPORT_ERR_01)
DECLARATION(D_SUBMIT_REPORT_ERR_01)
DECLARATION(DELIVER_01)
DECLARATION(D_DELIVER_01)
DECLARATION(DELIVER_02)
DECLARATION(D_DELIVER_02)
DECLARATION(DELIVER_03)
DECLARATION(D_DELIVER_03)
DECLARATION(DELIVER_04)
DECLARATION(D_DELIVER_04)
DECLARATION(DELIVER_05)
DECLARATION(D_DELIVER_05)
DECLARATION(DELIVER_06)
DECLARATION(D_DELIVER_06)
DECLARATION(DELIVER_07)
DECLARATION(D_DELIVER_07)
DECLARATION(DELIVER_08)
DECLARATION(D_DELIVER_08)
DECLARATION(DELIVER_CONC_01_1)
DECLARATION(D_DELIVER_CONC_01_1)
DECLARATION(DELIVER_CONC_01_2)
DECLARATION(D_DELIVER_CONC_01_2)
DECLARATION(DELIVER_CONC_01_3)
DECLARATION(D_DELIVER_CONC_01_3)
DECLARATION(DELIVER_CONC_02_1)
DECLARATION(D_DELIVER_CONC_02_1)
DECLARATION(DELIVER_CONC_02_2)
DECLARATION(D_DELIVER_CONC_02_2)
DECLARATION(DELIVER_CONC_03_1)
DECLARATION(D_DELIVER_CONC_03_1)
DECLARATION(DELIVER_CONC_03_2)
DECLARATION(D_DELIVER_CONC_03_2)
DECLARATION(DELIVER_CONC_04_1)
DECLARATION(D_DELIVER_CONC_04_1)
DECLARATION(DELIVER_CONC_04_2)
DECLARATION(D_DELIVER_CONC_04_2)
DECLARATION(DELIVER_REPORT_ACK_01)
DECLARATION(STATUS_REPORT_01)
DECLARATION(D_STATUS_REPORT_01)
DECLARATION(STATUS_REPORT_02)
DECLARATION(D_STATUS_REPORT_02)
DECLARATION(COMMAND_01)
DECLARATION(D_COMMAND_01)
DECLARATION(COMMAND_02)
DECLARATION(D_COMMAND_02)
DECLARATION(COMMAND_03)
DECLARATION(D_COMMAND_03)
DECLARATION(COMMAND_04)
DECLARATION(D_COMMAND_04)
DECLARATION(COMMAND_05)
DECLARATION(D_COMMAND_05)

DECLARATION(COMMAND_DEL_1)
DECLARATION(D_COMMAND_DEL_1)
DECLARATION(COMMAND_DEL_2)
DECLARATION(D_COMMAND_DEL_2)
DECLARATION(COMMAND_DEL_3)
DECLARATION(D_COMMAND_DEL_3)

DECLARATION(SUBMIT_CONC_01_1)
DECLARATION(D_SUBMIT_CONC_01_1)
DECLARATION(SUBMIT_CONC_01_2)
DECLARATION(D_SUBMIT_CONC_01_2)
DECLARATION(SUBMIT_CONC_01_3)
DECLARATION(D_SUBMIT_CONC_01_3)
DECLARATION(SUBMIT_CONC_02_1)
DECLARATION(D_SUBMIT_CONC_02_1)
DECLARATION(SUBMIT_CONC_02_2)
DECLARATION(D_SUBMIT_CONC_02_2)
DECLARATION(SUBMIT_CONC_02_3)
DECLARATION(D_SUBMIT_CONC_02_3)
DECLARATION(SUBMIT_CONC_02_4)
DECLARATION(D_SUBMIT_CONC_02_4)


DECLARATION(D_SM7_ABC)
DECLARATION(D_SM7_ABC_17)
DECLARATION(D_SM7_ABC_MS)
DECLARATION(D_SM7_ABCDEFGHI)
DECLARATION(SM8_ABCDEFGHI)
DECLARATION(D_SM8_ABCDEFGHI)
DECLARATION(SM7_SPECIAL_SIGNS)
DECLARATION(D_SM7_SPECIAL_SIGNS)
DECLARATION(SM8_HEX_SPECIAL_SIGNS)
DECLARATION(D_SM8_HEX_SPECIAL_SIGNS)
DECLARATION(SM7_UDH_ABCDEFGHI)
DECLARATION(D_SM7_UDH_ABCDEFGHI)
DECLARATION(SM7_0123456789_RPT)
DECLARATION(D_SM7_0123456789_RPT)
DECLARATION(M_CBM_MSG_3)
DECLARATION(M_CBM_MSG_4)
DECLARATION(M_CMT_0123456789_RPT)
DECLARATION (PLMN_262_01)
DECLARATION (MCC_262)
DECLARATION (MNC_01)
DECLARATION (F_STK_PRF_MFW)
DECLARATION (F_SIM_SRV_4)
DECLARATION (F_SIM_SRV)
DECLARATION (F_SIM_SRV_4_12)
DECLARATION (F_SIM_SRV_4_30)
DECLARATION (F_SIM_SRV_4_14)
DECLARATION (F_SIM_SRV_4_12_30)
DECLARATION (F_SIM_SRV_4_12_14)
DECLARATION (F_SIM_SRV_4_14_30)
DECLARATION (F_SIM_SRV_4_12_14_30)
DECLARATION (SMSP_EMPTY)
DECLARATION (SMSP_CMPL)
DECLARATION (SMSP_WO_SCA)
DECLARATION (SMSP_WO_DA_PID)
DECLARATION (SMSP_WO_DA_DCS)
DECLARATION (SMSP_WO_DA_VPREL)
DECLARATION (SMSP_CMPL_ALPHA_ID)
DECLARATION (SMSP_CORRECT_R)
DECLARATION (SMSP_CORRECT_ALPHA_ID_R)
DECLARATION (SMSP_CORRECT_U)
DECLARATION (SMSP_CORRECT_ALPHA_ID_U)
DECLARATION (CBMIR_DEF)
DECLARATION (CBMIR_1E_1V)
DECLARATION (CBMIR_1E_1R)
DECLARATION (CBMIR_2E_1R1)
DECLARATION (CBMIR_2E_1R2)
DECLARATION (CBMIR_2E_2R)
DECLARATION (CBMIR_5E_5R)
DECLARATION (CBMIR_10E_10R)
DECLARATION (CBMIR_11E_10R)
DECLARATION (CBMIR_11E_11R)
DECLARATION (CBMIR_ON_U)
DECLARATION (CBMIR_ON_R)
DECLARATION (CBMI_10E_2V1)
DECLARATION (CBMI_10E_2V2)
DECLARATION (CBMI_10E_2V3)
DECLARATION (CBMI_10E_2V4)
DECLARATION (CBMI_12E)
DECLARATION (CBMI_ON_U)
DECLARATION (CBMI_SGL4_U)
DECLARATION (CBMI_SGL7_U)
DECLARATION (CBMI_ON_R)
DECLARATION (CBMI_SGL4_R)
DECLARATION (CBMI_SGL7_R)
DECLARATION (CBM_MID_DEF)
DECLARATION (CBM_MID_1V)
DECLARATION (CBM_MID_1R)
DECLARATION (CBM_MID_1R_2V)
DECLARATION (CBM_MID_2V)
DECLARATION (CBM_MID_2R)
DECLARATION (CBM_MID_2R_2V)
DECLARATION (CBM_MID_5R)
DECLARATION (CBM_MID_5R_2V)
DECLARATION (CBM_MID_10R)
DECLARATION (CBM_MIDS_ON)
DECLARATION (CBM_MIDS_ON_SIM)
DECLARATION (CBM_MID_SGL4)
DECLARATION (CBM_MID_SGL7)
DECLARATION (CBHZ_MID)
DECLARATION (CBHZ_MID_OFF)
DECLARATION (CBM_DCS_DEF)
DECLARATION (CBM_DCS_ON)
DECLARATION (CBHZ_DCS0_TIM60)
DECLARATION (CBHZ_DCS1_TIM60)
DECLARATION (CBHZ_DCS0_TIM90)

/*-------- MESSAGE SECTION ---------------------------------------*/

/* message: CBM */
STRING(M_CBM_RECEIVE, "+CBM: 291,3,17,4,7")
BYTE LM_CBM_RECEIVE 18

/* message: CDS */
STRING(M_CDS_01, "+CDS: 2,172,\"987654\",129,\"98/01/07,12:34:56+04\",\"98/01/07,12:34:50+04\",0")
BYTE LM_CDS_01 72

/* message: CDS PDU */
STRING(M_CDS_PDU1, "+CDS: 22")
BYTE LM_CDS_PDU1 8
STRING(M_CDS_PDU2, "04812143F502AC068189674589107021436540891070214305400 0")
BYTE LM_CDS_PDU2 54

/* message: CMGC */
STRING(M_CMGC_MSG_REF_1, "+CMGC: 1")
BYTE LM_CMGC_MSG_REF_1 8
```

```
/* message: CMGC */
STRING(M_CMGC_MSG_REF_2, "+CMGC: 2")
BYTE LM_CMGC_MSG_REF_2 8

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

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

STRING(C_CMGC_QUERY, "AT+CMGC=?")
BYTE LC_CMGC_QUERY 9

STRING(C_CMGC_INVALID, "AT+CMGC=AB")
BYTE LC_CMGC_INVALID 10

/* message: CMGL */
STRING(M_CMGL_ENTRY_03, "+CMGL: 3,\"STO UNSENT\",\"98765\",,,129,9")
BYTE LM_CMGL_ENTRY_03 37

STRING(M_CMGL_ENTRY_14, "+CMGL: 20,\"STO UNSENT\",\"98765\",,,129,9")
BYTE LM_CMGL_ENTRY_14 38

STRING(M_CMGL_ENTRY_25, "+CMGL: 37,\"STO UNSENT\",\"98765\",,,129,9")
BYTE LM_CMGL_ENTRY_25 38

STRING(M_CMGL_ENTRY_36, "+CMGL: 54,\"STO SENT\",\"98765\",,,129,9")
BYTE LM_CMGL_ENTRY_36 36

STRING(M_CMGL_ENTRY_47, "+CMGL: 71,\"REC UNREAD\",\"987654\",,\"98/01/07,12:34:56+04\",129,9")
BYTE LM_CMGL_ENTRY_47 61

STRING(M_CMGL_ENTRY_58, "+CMGL: 88,\"REC READ\",\"987654\",,\"98/01/07,12:34:56+04\",129,9")
BYTE LM_CMGL_ENTRY_58 59

STRING(M_CMGL_ENTRY_1, "+CMGL: 1")
BYTE LM_CMGL_ENTRY_1 8

STRING(M_CMGL_ENTRY_05_PDU, "+CMGL: 5,0,,24")
BYTE LM_CMGL_ENTRY_05_PDU 14

STRING(M_CMGL_ENTRY_40_PDU, "+CMGL: 40,0,,24")
BYTE LM_CMGL_ENTRY_40_PDU 15

STRING(M_CMGL_ENTRY_03_PDU, "+CMGL: 3,1,,24")
BYTE LM_CMGL_ENTRY_03_PDU 14

STRING(M_CMGL_ENTRY_27_PDU, "+CMGL: 27,1,,24")
BYTE LM_CMGL_ENTRY_27_PDU 15

STRING(M_CMGL_ENTRY_25_PDU, "+CMGL: 25,2,,18")
BYTE LM_CMGL_ENTRY_25_PDU 15

STRING(M_CMGL_ENTRY_33_PDU, "+CMGL: 33,2,,18")
BYTE LM_CMGL_ENTRY_33_PDU 15
```

```
STRING(M_CMGL_ENTRY_09_PDU, "+CMGL: 9,3,,18")
BYTE LM_CMGL_ENTRY_09_PDU 14

STRING(M_CMGL_ENTRY_09_PDU_REL, "+CMGL: 9,3,,19")
BYTE LM_CMGL_ENTRY_09_PDU_REL 14

STRING(M_CMGL_ENTRY_20_PDU, "+CMGL: 20,3,,18")
BYTE LM_CMGL_ENTRY_20_PDU 15

STRING(M_CMGL_ENTRY_20_PDU_ABS, "+CMGL: 20,3,,25")
BYTE LM_CMGL_ENTRY_20_PDU_ABS 15

/* message: CMGR */
STRING(M_CMGR_SIM_2, "+CMGR: \"STO UNSENT\",\"98765\",,129,1,64,242,,\"12345\",129,9")
BYTE LM_CMGR_SIM_2 56

STRING(M_CMGR_ENTRY_PDU_ABCDEFGHI, "+CMGR: 2,,18")
STRING(M_CMGR_ENTRY_PDU_ABC, "+CMGR: 2,,16")
STRING(M_CMGR_ENTRY_PDU_ABC_17, "+CMGR: 2,,28")
STRING(M_CMGR_ENTRY_PDU_ABC_MS, "+CMGR: 2,,37")
BYTE LM_CMGR_ENTRY_PDU 12

STRING(M_CMGR_ENTRY_03_PDU, "+CMGR: 1,,24")
BYTE LM_CMGR_ENTRY_03_PDU 12

STRING(M_CMGR_ENTRY_05_PDU, "+CMGR: 0,,24")
BYTE LM_CMGR_ENTRY_05_PDU 12

STRING(M_CMGR_ENTRY_09_PDU, "+CMGR: 3,,18")
BYTE LM_CMGR_ENTRY_09_PDU 12

STRING(M_CMGR_ENTRY_25_PDU, "+CMGR: 2,,18")
BYTE LM_CMGR_ENTRY_25_PDU 12

/* message: CMGS */
STRING(M_PROMPT, "> ")
BYTE LM_PROMPT 2

STRING(M_CMGS_MSG_REF_1, "+CMGS: 1")
BYTE LM_CMGS_MSG_REF_1 8

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

/* message: CMGW */
STRING(M_CMGW_REC_NUM_2, "+CMGW: 2")
BYTE LM_CMGW_REC_NUM_2 8


/* message: CMGW (conc. SMS)*/
STRING(M_CMGW_REC_NUM_1_3, "+CMGW: 1,3")
BYTE LM_CMGW_REC_NUM_1_3 10

/* message: CMGS (conc. SMS)*/
STRING(M_CMGS_REC_NUM_1_3, "+CMGS: 1,3")
BYTE LM_CMGS_REC_NUM_1_3 10
```

```
/* message: CMSS (conc. SMS)*/
STRING(M_CMSS_REC_NUM_1_3, "+CMSS: 1,3")
BYTE LM_CMSS_REC_NUM_1_3 10


/* message: CMGW */
STRING(M_CMGW_REC_NUM_1, "+CMGW: 1")
BYTE LM_CMGW_REC_NUM_1 8

/* message: CMT */
STRING(M_CMT_ABCDEFGHI_HEADER,
"+CMT: \"987654\",,\"98/01/07,12:34:56+04\",129,0,64,0,\"12345\",129,9")
BYTE LM_CMT_ABCDEFGHI_HEADER 63

/* message: CMT (OA is alphanumeric)*/
STRING(M_CMT_ABCDEFGHI_HEADER_TON_ALPH,
"+CMT: \"www.ti.de\",,\"98/01/07,12:34:56+04\",208,0,64,0,\"12345\",129,9")
BYTE LM_CMT_ABCDEFGHI_HEADER_TON_ALPH 66

/* message: CMT  (for conc. SMS) */
STRING(M_CMT_ABCDEFGHI_HEADER_CONC,
"+CMT: \"987654\",,\"98/01/07,12:34:56+04\",129,64,64,0,\"12345\",129,15")
BYTE LM_CMT_ABCDEFGHI_HEADER_CONC 65

STRING(M_CMT_8_BIT_HEADER,
"+CMT: \"987654\",,\"98/01/07,12:34:56+04\",129,0,64,244,\"12345\",129,9")
BYTE LM_CMT_8_BIT_HEADER 65

STRING(M_CMT_UDH_ABCDEFGHI_HEADER,
"+CMT: \"987654\",,\"98/01/07,12:34:56+04\",129,64,64,0,\"12345\",129,13")
BYTE LM_CMT_UDH_ABCDEFGHI_HEADER 65

STRING(M_CMT_ABCDEFGHI, "ABCDEFGHI")
BYTE LM_CMT_ABCDEFGHI 9

STRING(M_CMT_UDH_ABCDEFGHI, "030A0B0C080A87C4A2F1884C02")
BYTE LM_CMT_UDH_ABCDEFGHI 26

STRING(M_CMT_ABCDEFGHIJKLMN1, "ABCDEFGHIJKLMN1")
BYTE LM_CMT_ABCDEFGHIJKLMN1  15

STRING(M_CMT_ABCDEFGHIJKLMN2, "ABCDEFGHIJKLMN2")
BYTE LM_CMT_ABCDEFGHIJKLMN2 15

STRING(M_CMT_ABCDEFGHIJKLMN3, "ABCDEFGHIJKLMN3")
BYTE LM_CMT_ABCDEFGHIJKLMN3 15

STRING(M_CMT_ABCDEFGHI_HEX, "414243444546474849")
BYTE LM_CMT_ABCDEFGHI_HEX 18

BYTE LM_CMGR_PDU 12

STRING(M_CMGR_PDU_REC_UNREAD, "+CMGR: 0,,24")
STRING(M_CMT_PDU_REC_UNREAD, "04812143F500068189674540008910702143654009 41E19058341E9149")
BYTE LM_CMT_PDU_REC_UNREAD 0x3A

STRING(M_CMGR_PDU_REC_READ, "+CMGR: 1,,24")
STRING(M_CMT_PDU_REC_READ, "04812143F50006818967454000891070214365400941E19058341E9149")
BYTE LM_CMT_PDU_REC_READ 0x3A

STRING(M_CMGR_PDU_UNSENT, "+CMGR: 2,,18")
STRING(M_CMT_PDU_UNSENT, "04812143F5010005818967F540F20941E19058341E9149")
BYTE LM_CMT_PDU_UNSENT 46

STRING(M_CMT_PDU_SENT,"04812143F5010005818967F540F20941E19058341E9149")
BYTE LM_CMT_PDU_SENT 46

STRING(M_CMT_PDU_UNSENT_NO_SCA,"068169234187F5010005818967F540F20941E19058341E9149")
BYTE LM_CMT_PDU_UNSENT_NO_SCA 50

STRING(M_CMT_PDU_SENT_NO_SCA,"068169234187F5010005818967F540F20941E19058341E9149")
BYTE LM_CMT_PDU_SENT_NO_SCA 50

STRING(M_CMT_PDU_UNSENT_NO_SCA_1,"068169234187F501000C91947132896703000000341E110")
BYTE LM_CMT_PDU_UNSENT_NO_SCA_1 46

STRING(M_CMT_PDU_SENT_NO_SCA_1,"068169234187F501000C91947132896703000000341E110")
BYTE LM_CMT_PDU_SENT_NO_SCA_1 46

STRING(M_CMT_PDU_UNSENT_NO_SCA_2,"068169234187F501000C9194713289670300001141E19058341E9141E19058341E9149")
BYTE LM_CMT_PDU_UNSENT_NO_SCA_2 70

STRING(M_CMT_PDU_SENT_NO_SCA_2,"068169234187F501000C9194713289670300001141E19058341E9141E19058341E9149")
BYTE LM_CMT_PDU_SENT_NO_SCA_2 70

STRING(M_CMT_PDU_UNSENT_NO_SCA_MS,"068169234187F501000B914152448448F900111B493328FFAE83E6E532888E4ECF41F9771D14969741CF7508")
BYTE LM_CMT_PDU_UNSENT_NO_SCA_MS 88

STRING(M_CMT_PDU_UNSENT_IN,"04812143F5010005818967F540F20941E19058341E9149")
BYTE LM_CMT_PDU_UNSENT_IN 46

STRING(M_CMT_PDU_UNSENT_NO_SCA_IN,"00010005818967F540F20941E19058341E9149")
BYTE LM_CMT_PDU_UNSENT_NO_SCA_IN 38

STRING(M_CMT_PDU_UNSENT_NO_SCA_IN_1,"0001000C91947132896703000000341E110")
BYTE LM_CMT_PDU_UNSENT_NO_SCA_IN_1 34

STRING(M_CMT_PDU_UNSENT_NO_SCA_IN_2,"0001000C9194713289670300001141E19058341E9141E19058341E9149")
BYTE LM_CMT_PDU_UNSENT_NO_SCA_IN_2 58

STRING(M_CMT_PDU_UNSENT_NO_SCA_MS_IN,"0001000B914152448448F900111B493328FFAE83E6E532888E4ECF41F9771D14969741CF7508")
BYTE LM_CMT_PDU_UNSENT_NO_SCA_MS_IN 76

STRING(M_CMGR_PDU_UNSENT_REL, "+CMGR: 2,,19")
STRING(M_CMT_PDU_STO_UNSENT_REL, "04812143F5110005818967F540F2230941E19058341E9149")
BYTE LM_CMT_PDU_STO_UNSENT_REL 48

STRING(M_CMGR_PDU_SENT_REL, "+CMGR: 3,,19")
STRING(M_CMT_PDU_STO_SENT_REL, "04812143F5110005818967F540F2230941E19058341E9149")
BYTE LM_CMT_PDU_STO_SENT_REL 48

STRING(M_CMT_PDU_STO_SENT_REL_IN, "04812143F5110005818967F540F2230941E19058341E9149")
BYTE LM_CMT_PDU_STO_SENT_REL_IN 48

STRING(M_CMT_PDU_SENT_NO_SCA_REL_IN, "00110005818967F540F2230941E19058341E9149")
BYTE LM_CMT_PDU_SENT_NO_SCA_REL_IN 40
```

```
STRING(M_CMGR_PDU_UNSENT_ABS, "+CMGR: 2,,25")
STRING(M_CMT_PDU_STO_UNSENT_ABS, "04812143F5190005818967F540F2891070214365400941E19058341E9149")
BYTE LM_CMT_PDU_STO_UNSENT_ABS 60

STRING(M_CMT_PDU_STO_SENT_ABS, "04812143F5190005818967F540F2891070214365400941E19058341E9149")
BYTE LM_CMT_PDU_STO_SENT_ABS 60

STRING(M_CMT_PDU_STO_SENT_ABS_IN, "04812143F5190005818967F540F2891070214365400941E19058341E9149")
BYTE LM_CMT_PDU_STO_SENT_ABS_IN 60

STRING(M_CMT_PDU_SENT_NO_SCA_ABS_IN, "00190005818967F540F2891070214365400941E19058341E9149")
BYTE LM_CMT_PDU_SENT_NO_SCA_ABS_IN 52

STRING(M_CMT_0123456789_RPT_HEADER,
"+CMT: \"987654\",,\"98/01/07,12:34:56+04\",129,0,64,0,\"12345\",129,160")
BYTE LM_CMT_0123456789_RPT_HEADER 65

/* message: CMTI */
STRING(M_CMTI_SM_01, "+CMTI: \"SM\",1")
BYTE LM_CMTI 13

STRING(M_CMTI_ME_04, "+CMTI: \"ME\",4")
BYTE LM_CMTI_ME_04 13

STRING(M_CMTI_ME_05, "+CMTI: \"ME\",5")
BYTE LM_CMTI_ME_05 13

STRING(M_CMTI_ME_06, "+CMTI: \"ME\",6")
BYTE LM_CMTI_ME_06 13


/* message: CNMI */
STRING(M_CNMI_QUERY, "+CNMI: 1,2,2,1,0")
BYTE LM_CNMI_QUERY 16

/* message: CSCA */
STRING(M_CSCA_QUERY_DEF, "+CSCA: \"\",128")
BYTE LM_CSCA_QUERY_DEF 13

STRING(M_CSCA_QUERY, "+CSCA: \"12345\",129")
BYTE LM_CSCA_QUERY 18

STRING(M_CSCA_QUERY1_SMSP, "+CSCA: \"987654321\",129")
BYTE LM_CSCA_QUERY1_SMSP 22

STRING(M_CSCA_QUERY2_SMSP, "+CSCA: \"+4930390940\",145")
BYTE LM_CSCA_QUERY2_SMSP 24

/* message: CSAS */
STRING(M_CSAS_TEST_PCM, "+CSAS: (0-3)")
BYTE LM_CSAS_TEST_PCM 12

BYTE LM_CSAS_TEST_SMSP 12
STRING(M_CSAS_TEST_SMSP_1, "+CSAS: (0-0)")
BYTE LM_CSAS_TEST_SMSP_1 12

STRING(M_CSAS_TEST_SMSP_2, "+CSAS: (0-1)")
```

```
BYTE LM_CSAS_TEST_SMSP_1 12

STRING(M_CSAS_TEST_SMSP_3, "+CSAS: (0-2)")
BYTE LM_CSAS_TEST_SMSP_1 12

STRING(M_CSAS_TEST_SMSP_5, "+CSAS: (0-4)")
BYTE LM_CSAS_TEST_SMSP_1 12

/* message: CSCB */
STRING(M_CSCB_TEST_DEF, "+CSCB: (0,1)")
BYTE LM_CSCB_TEST_DEF 12

STRING(M_CSCB_TEST_ACC, "+CSCB: (0,1)")
BYTE LM_CSCB_TEST_ACC 12

STRING(M_CSCB_QUERY_DEF, "+CSCB: 0,\"\",\"\"")
BYTE LM_CSCB_QUERY_DEF 14

STRING(M_CSCB_QUERY, "+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_SGL4, "+CSCB: 0,\"3,7,13,1005\",\"\"")
BYTE LM_CSCB_QUERY_SGL4 25

STRING(M_CSCB_QUERY_SIM, "+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_SIM 61

STRING(M_CSCB_QUERY_1V, "+CSCB: 0,\"17\",\"\"")
BYTE LM_CSCB_QUERY_1V 16

STRING(M_CSCB_QUERY_1R, "+CSCB: 0,\"1-41\",\"\"")
BYTE LM_CSCB_QUERY_1R 18

STRING(M_CSCB_QUERY_1R_2V, "+CSCB: 0,\"1-41,25,2000\",\"\"")
BYTE LM_CSCB_QUERY_1R_2V 26

STRING(M_CSCB_QUERY_2R, "+CSCB: 0,\"1-41,288-863\",\"\"")
BYTE LM_CSCB_QUERY_2R 26

STRING(M_CSCB_QUERY_2R_2V, "+CSCB: 0,\"1-41,288-863,25,2000\",\"\"")
BYTE LM_CSCB_QUERY_2R_2V 34

STRING(M_CSCB_QUERY_5R, "+CSCB: 0,\"1-41,48,81,288-863,100-149\",\"\"")
BYTE LM_CSCB_QUERY_5R 40

STRING(M_CSCB_QUERY_5R_2V, "+CSCB: 0,\"1-41,48,81,288-863,100-149,25,2000\",\"\"")
BYTE LM_CSCB_QUERY_5R_2V 48

STRING(M_CSCB_QUERY_10R, "+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, "+CSCB: 0,\"25,2000\",\"\"")
BYTE LM_CSCB_QUERY_2V 21

/* message: CSMP */
STRING(M_CSMP_QUERY, "+CSMP: 29,\"98/01/07,12:34:56+04\",64,0")
BYTE LM_CSMP_QUERY 37
```

```
STRING(M_CSMP_QUERY_VP_ENH_REL, "+CSMP: 13,\"41A80000000000\",64,0")
BYTE LM_CSMP_QUERY_VP_ENH_REL 31

STRING(M_CSMP_QUERY_VP_ENH_SEC, "+CSMP: 13,\"023C0000000000\",64,0")
BYTE LM_CSMP_QUERY_VP_ENH_SEC 31

STRING(M_CSMP_QUERY_VP_ENH_HRS, "+CSMP: 13,\"03214365000000\",64,0")
BYTE LM_CSMP_QUERY_VP_ENH_HRS 31

STRING(M_CSMP_QUERY_CORRECT, "+CSMP: 29,\"98/01/07,12:34:56+04\",71,0")
BYTE LM_CSMP_QUERY 37

STRING(M_CSMP_QUERY_DEF, "+CSMP: 17,167,0,0")
BYTE LM_CSMP_QUERY_DEF 17

STRING(M_CSMP_QUERY_SMSP_CMPL, "+CSMP: 17,57,64,242")
BYTE LM_CSMP_QUERY_SMSP_CMPL 19
STRING(M_CSMP_QUERY_SMSP_CMPL_MOD, "+CSMP: 21,57,64,242")

STRING(M_CSMP_QUERY_SMSP_WO_PID, "+CSMP: 17,57,0,242")
BYTE LM_CSMP_QUERY_SMSP_WO_PID 18

STRING(M_CSMP_QUERY_SMSP_WO_DCS, "+CSMP: 17,57,64,0")
BYTE LM_CSMP_QUERY_SMSP_WO_DCS 17

STRING(M_CSMP_QUERY_SMSP_WO_VPREL, "+CSMP: 1,,64,242")
BYTE LM_CSMP_QUERY_SMSP_WO_VPREL 16

/* message: CSMS */
STRING(M_CSMS_PHASE_2, "+CSMS: 1,1,1")
BYTE LM_CSMS_PHASE_2 12

STRING(M_CSMS_QUERY, "+CSMS: 0,1,1,1")
BYTE LM_CSMS_QUERY 14

STRING(M_CSMS_QUERY_2PLUS, "+CSMS: 1,1,1,1")
BYTE LM_CSMS_QUERY_2PLUS 14

STRING(M_CSMS_CAPABILITIES, "+CSMS: (0,1)")
BYTE LM_CSMS_CAPABILITIES 12

/* message: start editing */
STRING(M_EDIT, "> ")
BYTE LM_EDIT 2

/* message: list capabilities */
STRING(M_CMGL_CAPABILITIES, "+CMGL: (\"REC UNREAD\",\"REC READ\",\"STO UNSENT\",\"STO SENT\",\"ALL\")")
BYTE LM_CMGL_CAPABILITIES 62

STRING(M_CMGL_CAPABILITIES_PDU, "+CMGL: (0,1,2,3,4)")
BYTE LM_CMGL_CAPABILITIES_PDU 18

/* messages: */
STRING (M_OK, "OK")
BYTE LM_OK 2

STRING(M_ERROR, "ERROR")
BYTE LM_ERROR 5
```

```
STRING(M_OPERATION_NOT_ALLOWED, "+CMS ERROR: operation not allowed")
BYTE LM_OPERATION_NOT_ALLOWED 33

STRING(M_CMS_ERROR_310, "+CMS ERROR: 310")
BYTE LM_CMS_ERROR_310 15

STRING(M_CMS_ERROR_314, "+CMS ERROR: 314")
BYTE LM_CMS_ERROR_314 15

/* CMS Error for conc. SMS (CMSS) */
STRING(M_CMS_ERROR_CMSS, "+CMS ERROR: 320,2")
BYTE LM_CMS_ERROR_CMSS 17

/* CMS Error for conc. SMS (CMGS) */
STRING(M_CMS_ERROR_CMGS, "+CMS ERROR: 500,15,1,2,3")
BYTE LM_CMS_ERROR_CMGS 24

/* CMS Error for conc. SMS (CMGR) */
STRING(M_CMS_ERROR_CMGR, "+CMS ERROR: invalid memory index")
BYTE LM_CMS_ERROR_CMGR 32

/* CMS Error for conc. SMS (CMGW) */
STRING(M_CMS_ERROR_CMGW, "+CMS ERROR: 320,0,1,1,3")
BYTE LM_CMS_ERROR_CMGW 23

/* CMS Error for conc. SMS (CMGD) */
STRING(M_CMS_ERROR_CMGD, "+CMS ERROR: 320")
BYTE LM_CMS_ERROR_CMGD 15


/* message: CPMS */
STRING(M_CPMS_SET_SM_ME_ME, "+CPMS: 0,255,1,255,1,255")
BYTE LM_CPMS_SET_SM_ME_ME 24

/* message: CPMS */
STRING(M_CPMS_QUERY_SM_ME_ME, "+CPMS: \"SM\",0,255,\"ME\",1,255,\"ME\",1,255")
BYTE LM_CPMS_QUERY_SM_ME_ME 39

/*-------- COMMAND SECTION --------------------------------------------*/

/* command: CFUN */
STRING(C_CFUN_1, "AT+CFUN=1")
BYTE LC_CFUN_1 9

/* command: COPS */
STRING(C_PLUS_COPS_REG, "AT+COPS=0")
BYTE LC_PLUS_COPS_REG 9

/* command: CNMA */
STRING(C_CNMA, "AT+CNMA")
BYTE LC_CNMA 7

/* command: CMGC */
STRING(C_CMGC_SENDING, "AT+CMGC=2,3,64,2,\"654321\"")
BYTE LC_CMGC_SENDING 25

/* command: CMGC * (for conc. SMS) */
```

```
STRING(C_CMGC_DELETE, "AT+CMGC=2,2,64,1,\"654321\"")
BYTE LC_CMGC_DELETE 25

/* command: CMGC */
STRING(C_CMGC_SENDING_PDU_NN, "AT+CMGC=8")
BYTE LC_CMGC_SENDING_PDU_NN 9

STRING(C_CMGC_SENDING_PDU_NC, "AT+CMGC=13")
BYTE LC_CMGC_SENDING_PDU_NC 10

STRING(C_CMGC_SENDING_PDU_DN, "AT+CMGC=11")
BYTE LC_CMGC_SENDING_PDU_DN 10

STRING(C_CMGC_SENDING_PDU_DC, "AT+CMGC=16")
BYTE LC_CMGC_SENDING_PDU_DC 10

STRING(C_CMGC_PDU_NN_IN, "04812143F50200400302000000")
BYTE LC_CMGC_PDU_NN_IN 26

STRING(C_CMGC_PDU_NC_IN, "04812143F502004003020000051234567890")
BYTE LC_CMGC_PDU_NC_IN 36

STRING(C_CMGC_PDU_DN_IN, "04812143F5020040030205818967F500")
BYTE LC_CMGC_PDU_DN_IN 32

STRING(C_CMGC_PDU_DC_IN, "04812143F5020040030205818967F5051234567890")
BYTE LC_CMGC_PDU_DC_IN 42

/* command: CMGC */
STRING(C_CMGC_NO_TEXT, "")
BYTE LC_CMGC_NO_TEXT 0

/* command: CMGD */
STRING(C_CMGD_SIM_1, "AT+CMGD=1")
BYTE LC_CMGD_SIM_1 9

/* command: CMGD */
STRING(C_CMGD_SIM_2, "AT+CMGD=2")
BYTE LC_CMGD_SIM_2 9

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

/* command: 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

/* command: CPMS */
STRING(C_CPMS_QUERY, "AT+CPMS?")
BYTE LC_CPMS_QUERY 8

/* command: CMGL */
STRING(C_CMGL_ALL, "AT+CMGL=\"ALL\"")
BYTE LC_CMGL_ALL 13
```

```
/* command: CMGL */
STRING(C_CMGL, "AT+CMGL")
BYTE LC_CMGL 7

STRING(C_CMGL_ALL_PDU, "AT+CMGL=4")
BYTE LC_CMGL_PDU 9

STRING(C_CMGL_INVALID, "AT+CMGL=\"ALLE\"")
BYTE LC_CMGL_INVALID 13

STRING(C_CMGL_QUERY, "AT+CMGL=?")
BYTE LC_CMGL_QUERY 9

STRING(C_CMGL_QUERY_INVALID, "AT+CMGL=??")
BYTE LC_CMGL_QUERY_INVALID 10

/* command: CMGL */
STRING(C_CMGL_REC_UNREAD, "AT+CMGL=\"REC UNREAD\"")
BYTE LC_CMGL_REC_UNREAD 20

STRING(C_CMGL_REC_UNREAD_PDU, "AT+CMGL=0")

/* command: CMGL */
STRING(C_CMGL_REC_READ, "AT+CMGL=\"REC READ\"")
BYTE LC_CMGL_REC_READ 18

STRING(C_CMGL_REC_READ_PDU, "AT+CMGL=1")

/* command: CMGL */
STRING(C_CMGL_STO_UNSENT, "AT+CMGL=\"STO UNSENT\"")
BYTE LC_CMGL_STO_UNSENT 20

STRING(C_CMGL_STO_UNSENT_PDU, "AT+CMGL=2")

/* command: CMGL */
STRING(C_CMGL_STO_SENT, "AT+CMGL=\"STO SENT\"")
BYTE LC_CMGL_STO_SENT 18

STRING(C_CMGL_STO_SENT_PDU, "AT+CMGL=3")

STRING(C_CMEE_1, "AT+CMEE=1")
BYTE LC_CMEE_1 9

STRING(C_CMEE_2, "AT+CMEE=2")
BYTE LC_CMEE_2 9

/* command: CMGR */
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_CMGR_QUERY, "AT+CMGR=?")
BYTE LC_CMGR_QUERY 9

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

STRING(C_CMGS_QUERY, "AT+CMGS=?")
BYTE LC_CMGS_QUERY 9

STRING(C_CMGS_INVALID, "AT+CMGS=AB")
BYTE LC_CMGS_INVALID 10

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

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, "AT+CMGS=\"654321\"")
BYTE LC_CMGS_SENDING 16

STRING(C_CMGS_SENDING2, "AT+CMGS=\"01791342999\"")
BYTE LC_CMGS_SENDING2 21

STRING(C_CMGS_SENDING_NO_VP, "AT+CMGS=18")
STRING(C_CMGS_SENDING_NO_VP_16, "AT+CMGS=16")
STRING(C_CMGS_SENDING_NO_VP_28, "AT+CMGS=28")
STRING(C_CMGS_SENDING_NO_VP_30, "AT+CMGS=30")
BYTE LC_CMGS_SENDING_NO_VP 10

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_CMGW_S_NO_STAT_NO_VP, "AT+CMGW=18")
BYTE LC_CMGW_S_NO_STAT_NO_VP 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_S_STO_UNS_NO_VP_PDU, "AT+CMGW=18,2")
STRING(C_CMGW_STO_UNS_NO_VP_16, "AT+CMGW=16,2")
STRING(C_CMGW_STO_UNS_NO_VP_28, "AT+CMGW=28,2")
STRING(C_CMGW_STO_UNS_NO_VP_30, "AT+CMGW=30,2")
STRING(C_CMGW_STO_UNS_MS_37, "AT+CMGW=37,2")
BYTE LC_CMGW_S_STO_UNS_NO_VP_PDU 12

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

/* command: CMGW */
STRING(C_CMGW_ABCDEFGHI, "ABCDEFGHI")
BYTE LC_CMGW_ABCDEFGHI 9

/* command: CMGW for conc. SMS*/
STRING(C_CMGW_ABCDEFGHI_5, "ABCDEFGHIABCDEFGHIABCDEFGHIABCDEFGHIABCDEFGHI")
BYTE LC_CMGW_ABCDEFGHI_5 45

/* command: CMGS for conc. SMS, message to split */
STRING(C_CMGS_ABCDEFGHIJKLMN_3, "ABCDEFGHIJKLMN1ABCDEFGHIJKLMN2ABCDEFGHIJKLMN3")
BYTE LC_CMGS_ABCDEFGHIJKLMN_3 45

/* command: CMT for conc. SMS, assembled message */
STRING(M_CMT_ABCDEFGHIJKLMN_3, "ABCDEFGHIJKLMN1ABCDEFGHIJKLMN2ABCDEFGHIJKLMN3")
BYTE LM_CMT_ABCDEFGHIJKLMN_3 45

/* command: CMT for conc. SMS, assembled message */
STRING(M_CMT_ABCDEFGHIJKLMN_4, "ABCDEFGHIJKLMN1ABCDEFGHIJKLMN2ABCDEFGHIJKLMN3ABCDEFGHIJKLMN4")
BYTE LM_CMT_ABCDEFGHIJKLMN_4 60

/* command: CMT for conc. SMS, assembled message */
STRING(M_CMT_HALLOHALLOHALL_2, "HALLOHALLOHALL1HALLOHALLOHALL2")
BYTE LM_CMT_HALLOHALLOHALL_2 30

/* command: CMT for conc. SMS, assembled message */
BYTE LM_CMT_LONG 163


STRING(C_CMGW_WRITING, "AT+CMGW=\"654321\",,\"REC UNREAD\"")
BYTE LC_CMGW_WRITING 30

STRING(C_CMGW_WRITING2, "AT+CMGW=\"654321\"")
BYTE LC_CMGW_WRITING2 16

STRING(C_CMGW_WRITING_WO, "AT+CMGW")
BYTE LC_CMGW_WRITING_WO 7

/* command: CMSS */
STRING(C_CMSS_SIM_1, "AT+CMSS=1")
BYTE LC_CMSS_SIM_1 9

/* command: CMSS */
STRING(C_CMSS_SIM_2, "AT+CMSS=2")
BYTE LC_CMSS_SIM_2 9

/* command: CMSS */
STRING(C_CMSS_SIM_3, "AT+CMSS=3")
BYTE LC_CMSS_SIM_3 9
```

```
/* command: CMSS */
STRING(C_CMSS_SIM_2_1, "AT+CMSS=2,\"12345\"")
BYTE LC_CMSS_SIM_2_1 17

/* command: CSCA */
STRING(C_CSCA_BOTH_CORRECT, "AT+CSCA=\"12345\"")
BYTE LC_CSCA_BOTH_CORRECT 15

/* command: CSCA */
STRING(C_CSCA_BOTH_CORRECT2, "AT+CSCA=\"+491710760000\",145")
BYTE LC_CSCA_BOTH_CORRECT2 29

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(C_CSCA_QUERY, "AT+CSCA?")
BYTE LC_CSCA_QUERY 8

/* 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

STRING(C_CSAS_TEST, "AT+CSAS=?")
BYTE LC_CSAS_TEST 9

/* command: CRES */
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: CSCB */
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(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

/* command: CSCB (empty) */
STRING(C_CSCB_IGNORE_ALL, "AT+CSCB=1,\"\",\"\"")
BYTE LC_CSCB_IGNORE_ALL 15

STRING(C_CSCB_QUERY, "AT+CSCB?")
BYTE LC_CSCB_QUERY 8

STRING(C_CSCB_TEST, "AT+CSCB=?")
BYTE LC_CSCB_TEST 9

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

/* command: %CBHZ */
STRING(C_CBHZ_MOD1, "AT%CBHZ=1")
BYTE LC_CBHZ_MOD1 9

STRING(C_CBHZ_MOD1_DCS0, "AT%CBHZ=1, 0")
BYTE LC_CBHZ_MOD1_DCS0 11

STRING(C_CBHZ_MOD1_TIM60, "AT%CBHZ=1,,60")
BYTE LC_CBHZ_MOD1_TIM60 13

STRING(C_CBHZ_MOD1_DCS1_TIM60, "AT%CBHZ=1,1,60")
BYTE LC_CBHZ_MOD1_DCS1_TIM60 14

STRING(C_CBHZ_MOD1_DCS0_TIM90, "AT%CBHZ=1,0,90")
BYTE LC_CBHZ_MOD1_DCS0_TIM90 14

STRING(C_CBHZ_MOD_WRONG, "AT%CBHZ=2,1,60")
BYTE LC_CBHZ_MOD_WRONG 14

STRING(C_CBHZ_DCS_WRONG, "AT%CBHZ=1,9,60")
BYTE LC_CBHZ_DCS_WRONG 14

STRING(C_CBHZ_TIM_WRONG, "AT%CBHZ=1,1,1")
BYTE LC_CBHZ_TIM_WRONG 13

STRING(C_CBHZ_MOD0, "AT%CBHZ=0")
BYTE LC_CBHZ_MOD0 9

/* command: CSCS */
STRING(C_CSCS_PCDN, "AT+CSCS=\"PCDN\"")
BYTE LC_CSCS_PCDN 14

STRING(C_CSCS_GSM, "AT+CSCS=\"GSM\"")
BYTE LC_CSCS_GSM 13

STRING(C_CSCS_HEX, "AT+CSCS=\"HEX\"")
BYTE LC_CSCS_HEX 13

STRING(C_CSCS_PCCP437, "AT+CSCS=\"PCCP437\"")
BYTE LC_CSCS_PCCP437 17

STRING(C_CSCS_8859_1, "AT+CSCS=\"8859-1\"")
BYTE LC_CSCS_8859_1 16

STRING(C_CSCS_IRA, "AT+CSCS=\"IRA\"")
BYTE LC_CSCS_IRA 13

/* command: CSMS */
STRING(C_CSMS_PHASE_2PLUS, "AT+CSMS=1")
BYTE LC_CSMS_PHASE_2PLUS 9

/* command: CSMS */
STRING(C_CSMS_PHASE_2, "AT+CSMS=0")
BYTE LC_CSMS_PHASE_2 9
```

```
STRING(C_CSMS_QUERY, "AT+CSMS?")
BYTE LC_CSMS_QUERY 8

STRING(C_CSMS_CAPABILITIES, "AT+CSMS=?")
BYTE LC_CSMS_CAPABILITIES 9

/* command: CNMI */
STRING(C_CNMI_REJECT, "AT+CNMI=2,0,1,0,0")
BYTE LC_CNMI_REJECT 17

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

STRING(C_CNMI_ONLY_CMT, "AT+CNMI=2,2,0,0,0")
BYTE LC_CNMI_ONLY_CMT 17

STRING(C_CNMI_ONLY_CBM, "AT+CNMI=2,,2")
BYTE LC_CNMI_ONLY_CBM 17

STRING(C_CNMI_BUFFER, "AT+CNMI=0,2,2,1,0")
BYTE LC_CNMI_BUFFER 17

STRING(C_CNMI_QUERY, "AT+CNMI?")
BYTE LC_CNMI_QUERY 8

/* command: CSMP */
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_CSMP_CORRECT, "AT+CSMP=29,\"98/01/07,12:34:56+04\",71,0")
BYTE LC_CSMP_CORRECT 38

STRING(C_CSMP_ALL_VP_ENH_REL, "AT+CSMP=13,\"41A8\",64,0")
BYTE LC_CSMP_ALL_VP_ENH_REL 22

STRING(C_CSMP_ALL_VP_ENH_SEC, "AT+CSMP=13,\"023C\",64,0")
BYTE LC_CSMP_ALL_VP_ENH_SEC 22

STRING(C_CSMP_ALL_VP_ENH_HRS, "AT+CSMP=13,\"03214365\",64,0")
BYTE LC_CSMP_ALL_VP_ENH_HRS 38

STRING(C_CSMP_DCS_8_BIT, "AT+CSMP=,,,244")
BYTE LC_CSMP_DCS_8_BIT 14

STRING(C_CSMP_REL_VP, "AT+CSMP=16,168,0,0")
BYTE LC_CSMP_REL_VP 18

STRING(C_CSMP_QUERY, "AT+CSMP?")
BYTE LC_CSMP_QUERY 8

/* message: CPMS */
STRING(C_CPMS_SET_SM_ME_ME, "AT+CPMS= \"SM\",\"ME\",\"ME\"")
BYTE LC_CPMS_SET_SM_ME_ME 23

/*-------- ALL OTHER STUFF ---------------------------------------*/

/* digits 0 to 10 */
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_255 255
SHORT NUM_0000 0x0000

/* timezones */
BYTE TIMEZONE_GMT_PLUS_1HR 0x40
BYTE VP_REL_23 0x23
/* message states */
BYTE STAT_REC_READ 0x01
BYTE STAT_REC_UNREAD 0x03
BYTE STAT_STO_SENT 0x05
BYTE STAT_STO_UNSENT 0x07

/* total and used values */
BYTE USED_0 0
BYTE USED_6 6
BYTE USED_8 8
BYTE USED_100 100
BYTE USED_255 255

BYTE TOTAL_0 0
BYTE TOTAL_100 100
BYTE TOTAL_255 255

/* transaction identifier */
BYTE TI_01 0x01

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

/* CBCH request status */
BYTE CBCH_NONE 0xFF

/* message references */
BYTE MSG_REF_00 0x00
BYTE MSG_REF_01 0x01
BYTE MSG_REF_02 0x02
BYTE MSG_REF_03 0x03
BYTE MSG_REF_AA 0xAA
BYTE MSG_REF_AB 0xAB
BYTE MSG_REF_AC 0xAC

/* record numbers */
BYTE REC_NUM_00 0x00
BYTE REC_NUM_01 0x01
BYTE REC_NUM_02 0x02
BYTE REC_NUM_03 0x03
BYTE REC_NUM_04 0x04
BYTE REC_NUM_05 0x05
BYTE REC_NUM_06 0x06
BYTE REC_NUM_3 3
BYTE REC_NUM_5 5
BYTE REC_NUM_9 9
BYTE REC_NUM_20 20
BYTE REC_NUM_27 27
BYTE REC_NUM_33 33
BYTE REC_NUM_25 25
BYTE REC_NUM_14 0x14
BYTE REC_NUM_25H 0x25
BYTE REC_NUM_36 0x36
BYTE REC_NUM_40 40
BYTE REC_NUM_47 0x47
BYTE REC_NUM_58 0x58

BYTE REC_NUM_MAX 0xFF

/* message types */
BYTE MSG_MO_1 0x01
BYTE MSG_MO_11 0x11
BYTE MSG_MO_19 0x19
BYTE MSG_MT_1 0x04
BYTE MSG_TYPE_01 0x01
BYTE MSG_TYPE_02 0x02
BYTE MSG_TYPE_04 0x04
BYTE MSG_TYPE_06 0x06
BYTE MSG_TYPE_11 0x11
BYTE MSG_TYPE_19 0x19
BYTE MSG_TYPE_1D 0x1D
BYTE MSG_TYPE_44 0x44

/* protocol identifiers */
BYTE PID_SM_DEF 0x00
BYTE PID_SM_TYPE_0 0x40

/* data coding schemes */
BYTE DCS_DEF 0x00
BYTE DCS_1 0xF2
BYTE DCS_2 0xF4
BYTE DCS_8_BIT 0xF4
BYTE DCS_MS 0x11

/* command data length */
BYTE L_CMD_DATA_EMPTY 0x00

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

/* STK Terminal Profile */
BEGINARRAY (F_STK_PRF_MFW, 13) 12, 0x0F, 0x07, 0xFF, 0x77, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
ENDARRAY

/* SIM Service Table (empty) */
```

```
BEGINARRAY (F_SIM_SRV, 10) 0x00, 0x00, 0x00, 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, CBMI */
BEGINARRAY (F_SIM_SRV_4_14, 10) 0xC0, 0x00, 0x00, 0x0C, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00
ENDARRAY

/* SIM Service Table with Nr. 4, SMSP, CBMIR */
BEGINARRAY (F_SIM_SRV_4_12_30, 10) 0xC0, 0x00, 0xC0, 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, CBMIR, CBMI */
BEGINARRAY (F_SIM_SRV_4_14_30, 10) 0xC0, 0x00, 0x00, 0x0C, 0x00, 0x00, 0x00, 0x0C, 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

/* 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

/* 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

/* 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

/* 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, 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

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

/* SIM EF(SMSP) Requests */
BEGINARRAY_PART (SMSP_CORRECT_U, 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

BEGINARRAY_PART (SMSP_CORRECT_ALPHA_ID_U, 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

/* 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

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

/* EF(CBMIR), 1 entry, 1 value */
BEGINARRAY (CBMIR_1E_1V, L_CBMIR_1)
0x00, 0x11, 0x00, 0x11
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_1R1, L_CBMIR_2)
0x00, 0x01, 0x00, 0x29,
0xFF, 0xFF, 0xFF, 0xFF
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

/* 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(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(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(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

/* EF(CBMIR), example writing */
BEGINARRAY_PART (CBMIR_ON_U, 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(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

/* 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

/* 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(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(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(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
ENDARRAY

/* EF(CBMI), example writing */
BEGINARRAY_PART (CBMI_ON_U, 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_PART (CBMI_SGL4_U, L_CBMI_10)
0x00, 0x03,
0x00, 0x07,
0x00, 0x0D,
0x03, 0xED,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF
ENDARRAY

BEGINARRAY_PART (CBMI_SGL7_U, L_CBMI_10)
0x00, 0x05,
0x00, 0x09,
0x00, 0x83,
0x00, 0x84,
0x00, 0x85,
0x00, 0x86,
0x03, 0xED,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF
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 (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
```

```
BEGINARRAY (CBMI_SGL7_R, L_CBMI_10)
0x00, 0x05,
0x00, 0x09,
0x00, 0x83,
0x00, 0x82,
0x00, 0x85,
0x00, 0x86,
0x03, 0xED,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF
ENDARRAY

/* empty list of CB message identifier ranges */
BEGIN_SHORT_ARRAY (CBM_MID_DEF, 20)
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF
ENDARRAY

/* list of CB message identifier ranges */
BEGIN_SHORT_ARRAY (CBM_MID_1V, 20)
0x0011, 0x0011, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF
ENDARRAY

/* list of CB message identifier ranges */
BEGIN_SHORT_ARRAY (CBM_MID_1R, 20)
0x0001, 0x0029, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF
ENDARRAY

/* list of CB message identifier ranges */
BEGIN_SHORT_ARRAY (CBM_MID_1R_2V, 20)
0x0001, 0x0029, 0x0019, 0x0019,
0x07D0, 0x07D0, 0xFFFF, 0XFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF
ENDARRAY

BEGIN_SHORT_ARRAY (CBM_MID_2V, 20)
0x0019, 0x0019, 0x07D0, 0x07D0,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF
ENDARRAY
```

```
/* list of CB message identifier ranges */
BEGIN_SHORT_ARRAY (CBM_MID_2R, 20)
0x0001, 0x0029, 0x0120, 0x035F,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF
ENDARRAY

/* list of CB message identifier ranges */
BEGIN_SHORT_ARRAY (CBM_MID_2R_2V, 20)
0x0001, 0x0029, 0x0120,  0x035F,
0x0019, 0x0019, 0x07D0, 0x07D0,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF
ENDARRAY

/* list of CB message identifier ranges */
BEGIN_SHORT_ARRAY (CBM_MID_5R, 20)
0x0001, 0x0029, 0x0030, 0x0030,
0x0051, 0x0051, 0x0120, 0x035F,
0x0064, 0x0095, 0xFFFF,  0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF
ENDARRAY

/* list of CB message identifier ranges */
BEGIN_SHORT_ARRAY (CBM_MID_5R_2V, 20)
0x0001, 0x0029, 0x0030, 0x0030,
0x0051, 0x0051, 0x0120, 0x035F,
0x0064, 0x0095, 0x0019, 0x0019,
0x07D0, 0x07D0, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF
ENDARRAY

/* list of CB message identifier ranges */
BEGIN_SHORT_ARRAY (CBM_MID_10R, 20)
0x0001, 0x0029, 0x0030, 0x0030,
0x0051, 0x0051, 0x0120, 0x035F,
0x0064, 0x0095, 0x0401, 0x0401,
0x0500, 0x05FF, 0x07CF, 0x07CF,
0x0FFF, 0x1FFF, 0x8000, 0x8003
ENDARRAY

/* example list of CB message identifier ranges */
BEGIN_SHORT_ARRAY (CBM_MIDS_ON, 20)
0x0003, 0x0003, 0x0007, 0x0007,
0x000B, 0x000D, 0x000E, 0x000E,
0x000F, 0x000F, 0x0010, 0x0010,
0x0011, 0x0011, 0x0012, 0x0014,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF
ENDARRAY

BEGIN_SHORT_ARRAY (CBM_MIDS_ON_SIM, 20)
0x0003, 0x0003, 0x0007, 0x0007,
0x000B, 0x000D, 0x000E, 0x000E,
0x000F, 0x000F, 0x0010, 0x0010,
0x0011, 0x0011, 0x0012, 0x0012,
0x0013, 0x0013, 0x0014, 0x0014
ENDARRAY

BEGIN_SHORT_ARRAY (CBM_MID_SGL4, 20)
0x0003, 0x0003, 0x0007, 0x0007,
0x000D, 0x000D, 0x03ED, 0x03ED,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF
ENDARRAY

BEGIN_SHORT_ARRAY (CBM_MID_SGL7, 20)
0x0005, 0x0005, 0x0009, 0x0009,
0x0083, 0x0086, 0x03ED, 0x03ED,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF
ENDARRAY

/* single homezone CB message identifier for activating homezone */
BEGIN_SHORT_ARRAY (CBHZ_MID, 20)
0x00DD, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF
ENDARRAY

/* single homezone CB message identifier for deactivating homezone*/
BEGIN_SHORT_ARRAY (CBHZ_MID_OFF, 20)
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF,
0xFFFF, 0xFFFF, 0xFFFF, 0xFFFF
ENDARRAY

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

/* list of CB data coding scheme / timeout period for home zone*/
BEGINARRAY (CBHZ_DCS0_TIM60, 20)
0x00, 0x3C,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF
ENDARRAY

/* list of CB data coding scheme / timeout period for home zone*/
BEGINARRAY (CBHZ_DCS1_TIM60, 20)
0x01, 0x3C,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF
ENDARRAY

/* list of CB data coding scheme / timeout period for home zone*/
BEGINARRAY (CBHZ_DCS0_TIM90, 20)
0x00, 0x5A,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF,
0xFF, 0xFF
ENDARRAY
```

/* Executable Statements */

```
/* EF ECC field array */
BEGINARRAY (A_ECC_FIELD,12) 0x11, 0xF2, 0xFF, 0x99, 0xF9, 0xFF, 0x21, 0x43, 0x65, 0xFF, 0xFF, 0xFF ENDARRAY
```

```
/* EF AD field array , disable CI */
BEGINARRAY_PART (A_AD_FIELD_CI_DISABLED,4) 0x00, 0x00, 0x00, 0x02 ENDARRAY

/* AT strings */
/* message: CBM */
BYTE LM_CBM_MSG_3 164
BEGINARRAY_PART (M_CBM_MSG_3, (LM_CBM_MSG_3 ))
        /*0x0D, 0x0A, /* \r\n */
        0x33, 0x30, 0x33, 0x31, 0x33, 0x32, 0x33, 0x33, 0x33, 0x34,
        0x33, 0x35, 0x33, 0x36, 0x33, 0x37, 0x33, 0x38, 0x33, 0x39,
        0x34, 0x31, 0x34, 0x32, 0x34, 0x33, 0x34, 0x34, 0x34, 0x35,
        0x34, 0x36, 0x34, 0x37, 0x34, 0x38, 0x34, 0x39, 0x34, 0x41,
        0x34, 0x42, 0x34, 0x43, 0x34, 0x44, 0x34, 0x45, 0x34, 0x46,
        0x35, 0x30, 0x35, 0x31, 0x35, 0x32, 0x35, 0x33, 0x35, 0x34,
        0x35, 0x35, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30,
        0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30,
        0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30,
        0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30,
        0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30,
        0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30,
        0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30,
        0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30,
        0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30,
        0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30,
        0x32, 0x30, 0x32, 0x30
ENDARRAY

BYTE LM_CBM_MSG_4 164
BEGINARRAY_PART (M_CBM_MSG_4, (LM_CBM_MSG_4))
        /*0x0D, 0x0A, /* \r\n */
        0x30, 0x30, 0x30, 0x31, 0x30, 0x32, 0x30, 0x33, 0x30, 0x34,
        0x30, 0x35, 0x30, 0x36, 0x30, 0x37, 0x34, 0x31, 0x34, 0x32,
        0x34, 0x33, 0x34, 0x34, 0x34, 0x35, 0x34, 0x36, 0x34, 0x37,
        0x34, 0x38, 0x36, 0x31, 0x36, 0x32, 0x36, 0x33, 0x36, 0x34,
        0x36, 0x35, 0x36, 0x36, 0x36, 0x37, 0x36, 0x38, 0x32, 0x30,
        0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30,
        0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30,
        0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30,
        0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30,
        0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30,
        0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30,
        0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30,
        0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30,
        0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30,
        0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30,
        0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30, 0x32, 0x30,
        0x32, 0x30, 0x32, 0x30
ENDARRAY

/* AT strings */
/* message: CMT */
BYTE LM_CMT_0123456789_RPT 160
BEGINARRAY_PART (M_CMT_0123456789_RPT, (LM_CMT_0123456789_RPT))
        /*0x0D, 0x0A, /* \r\n */
        0x30, 0x31, 0x32, 0x33, 0x34, 0x35, 0x36, 0x37, 0x38, 0x39,
        0x30, 0x31, 0x32, 0x33, 0x34, 0x35, 0x36, 0x37, 0x38, 0x39,
        0x30, 0x31, 0x32, 0x33, 0x34, 0x35, 0x36, 0x37, 0x38, 0x39,
        0x30, 0x31, 0x32, 0x33, 0x34, 0x35, 0x36, 0x37, 0x38, 0x39,
        0x30, 0x31, 0x32, 0x33, 0x34, 0x35, 0x36, 0x37, 0x38, 0x39,
        0x30, 0x31, 0x32, 0x33, 0x34, 0x35, 0x36, 0x37, 0x38, 0x39,
        0x30, 0x31, 0x32, 0x33, 0x34, 0x35, 0x36, 0x37, 0x38, 0x39,
        0x30, 0x31, 0x32, 0x33, 0x34, 0x35, 0x36, 0x37, 0x38, 0x39,
        0x30, 0x31, 0x32, 0x33, 0x34, 0x35, 0x36, 0x37, 0x38, 0x39,
        0x30, 0x31, 0x32, 0x33, 0x34, 0x35, 0x36, 0x37, 0x38, 0x39,
        0x30, 0x31, 0x32, 0x33, 0x34, 0x35, 0x36, 0x37, 0x38, 0x39,
        0x30, 0x31, 0x32, 0x33, 0x34, 0x35, 0x36, 0x37, 0x38, 0x39,
        0x30, 0x31, 0x32, 0x33, 0x34, 0x35, 0x36, 0x37, 0x38, 0x39,
        0x30, 0x31, 0x32, 0x33, 0x34, 0x35, 0x36, 0x37, 0x38, 0x39,
        0x30, 0x31, 0x32, 0x33, 0x34, 0x35, 0x36, 0x37, 0x38, 0x39,
        0x30, 0x31, 0x32, 0x33, 0x34, 0x35, 0x36, 0x37, 0x38, 0x39
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

BEGINARRAY_PART (WITH_CMD_DATA_CONTENT, 5)
        0x12, 0x34, 0x56, 0x78, 0x90
ENDARRAY


/* short messages length (new)*/
BYTE L_SM7_ABCDEFGHI_01 23
BYTE L_SM7_ABCDEFGHI_02 25
BYTE L_SM7_ABCDEFGHI_03 24
BYTE L_SM7_ABCDEFGHI_04 26
BYTE L_SM7_ABCDEFGHI_05 30
BYTE L_SM7_ABCDEFGHI_06 32
BYTE L_SM7_ABCDEFGHI_07 30
BYTE L_SM7_ABCDEFGHI_08 30
BYTE L_SM7_ABCDEFGHI_09 27
BYTE L_SM7_ABCDEFGHI_10 30
BYTE L_SM7_ABCDEFGHI_11 30
BYTE L_SM7_ABCDEFGHI_12 30
BYTE L_SM7_ABC_01 23
BYTE L_SM7_ABC_17_01 35
BYTE L_SM7_ABC_MS_01 44
BYTE L_SM7_SPECIAL_SIGNS_01 41
BYTE L_SM8_HEX_SPECIAL_SIGNS_01 44
BYTE L_SUBMIT_REPORT_ACK_01 14
BYTE L_SUBMIT_REPORT_ERR_01 15
BYTE L_DELIVER_01 17
BYTE L_DELIVER_02 29
BYTE L_DELIVER_03 161
BYTE L_DELIVER_04 34
BYTE L_DELIVER_05 29
BYTE L_DELIVER_06 30
BYTE L_DELIVER_07 29
BYTE L_DELIVER_08 34
BYTE L_DELIVER_CONC_01_1 41
BYTE L_DELIVER_CONC_01_2 41
BYTE L_DELIVER_CONC_01_3 41
BYTE L_DELIVER_CONC_02_1 41
BYTE L_DELIVER_CONC_02_2 41
BYTE L_DELIVER_CONC_03_1 168
BYTE L_DELIVER_CONC_03_2 43
BYTE L_DELIVER_CONC_04_1 41
BYTE L_DELIVER_CONC_04_2 41
BYTE L_STATUS_REPORT_01 27
BYTE L_STATUS_REPORT_02 27
BYTE L_COMMAND_01 13
BYTE L_COMMAND_02 16
BYTE L_COMMAND_03 16
BYTE L_COMMAND_04 18
BYTE L_COMMAND_05 21

BYTE L_COMMAND_DEL_1 16
BYTE L_COMMAND_DEL_2 16
BYTE L_COMMAND_DEL_3 16

BYTE L_SUBMIT_CONC_01_1 42
BYTE L_SUBMIT_CONC_01_2 42
BYTE L_SUBMIT_CONC_01_3 42

BYTE L_SUBMIT_CONC_02_1 42
BYTE L_SUBMIT_CONC_02_2 42
BYTE L_SUBMIT_CONC_02_3 42
BYTE L_SUBMIT_CONC_02_4 42

/*
0x01, 0x23      serial number
0x00, 0x03      message identifier
0x11            data coding scheme
0x47            page
0123456789      content, length 31, the
ABCDEFGHI       rest CBM is filled up
JKLMNOPQ        with 0x20, 8 bit
RSTU            alphabet
*/
BEGINARRAY(CBCH_MSG_3, CBCH_MSG_LEN)
        0x01, 0x23,
        0x00, 0x03,
        0x11,
        0x47,
        0x30, 0x31, 0x32, 0x33,
        0x34, 0x35, 0x36, 0x37,
        0x38, 0x39,
        0x41, 0x42, 0x43, 0x44,
        0x45, 0x46, 0x47, 0x48,
        0x49, 0x4A, 0x4B, 0x4C,
        0x4D, 0x4E, 0x4F, 0x50,
        0x51, 0x52, 0x53, 0x54,
        0x55, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20,
        0x20, 0x20, 0x20, 0x20
ENDARRAY
```

/*

0x00, 0x00	serial number
0x00, 0x00	message identifier
0x01	data coding scheme
0x11	page
Racal Instruments 6103 for all your GSM testing requirements.	content, length 93, the rest CBM is filled up with 0x0D, 7 bit alphabet

```
*/
BEGINARRAY(CBCH_MSG_2, CBCH_MSG_LEN)
            0x00, 0x00,
            0x00, 0x00,
            0x01,
            0x11,
            0xD2, 0xF0, 0x38, 0xCC, 0x06, 0x25, 0xDD, 0x73, 0xBA, 0xBC,
            0xDE, 0x2E, 0xBB, 0xE9, 0x73, 0x90, 0x2D, 0x06, 0x9B, 0x81,
            0xCC, 0x6F, 0x39, 0x28, 0xCC, 0x66, 0x83, 0xF2, 0xEF, 0xBA,
            0x1C, 0x74, 0x9C, 0x36, 0x41, 0xF4, 0xF2, 0x9C, 0x9E, 0x76,
            0x9F, 0x41, 0xF2, 0x72, 0xBC, 0x9E, 0x96, 0x97, 0xDB, 0x65,
            0x37, 0x7D, 0xEE, 0x6A, 0x34, 0x1A, 0x8D, 0x46, 0xA3, 0xD1,
            0x68, 0x34, 0x1A, 0x8D, 0x46, 0xA3, 0xD1, 0x68, 0x34, 0x1A,
            0x8D, 0x46, 0xA3, 0xD1, 0x68, 0x34, 0x1A, 0x8D, 0x46, 0xA3,
            0xD1, 0x00
ENDARRAY
```

/*

0x0C, 0x80	serial number
0x00, 0x32	message identifier
0x01	data coding scheme
0x11	page
030	content, length 93, the rest CBM is filled up with 0x20, 7 bit alphabet

```
*/
BEGINARRAY(CBCH_MSG_1, CBCH_MSG_LEN)
            0x0C, 0x80,
            0x00, 0x32,
            0x01,
            0x11,
            0xB0, 0x19, 0x0C,
            0x04, 0x02, 0x81, 0x40, 0x20, 0x10, 0x08,
            0x04, 0x02, 0x81, 0x40, 0x20, 0x10, 0x08,
            0x04, 0x02, 0x81, 0x40, 0x20, 0x10, 0x08,
            0x04, 0x02, 0x81, 0x40, 0x20, 0x10, 0x08,
            0x04, 0x02, 0x81, 0x40, 0x20, 0x10, 0x08,
            0x04, 0x02, 0x81, 0x40, 0x20, 0x10, 0x08,
            0x04, 0x02, 0x81, 0x40, 0x20, 0x10, 0x08,
            0x04, 0x02, 0x81, 0x40, 0x20, 0x10, 0x08,
            0x04, 0x02, 0x81, 0x40, 0x20, 0x10, 0x08,
            0x04, 0x02, 0x81, 0x40, 0x20, 0x10, 0x08,
            0x04, 0x02, 0x81, 0x40, 0x20, 0x10, 0x08,
            0x04, 0x02
ENDARRAY

/*
```

0x01, 0x23	serial number
0x00, 0x03	message identifier
0x11	data coding scheme
0x47	page
hex values: 00 01 02 03 04 05 06 07 41 42 43 44 45 46 47 48 61 62 63 64 65 66 67 68	content, length 24, the rest CBM is filled up with 0x20, 8 bit alphabet

```
*/
BEGINARRAY(CBCH_MSG_4, CBCH_MSG_LEN)
            0x01, 0x23,
            0x00, 0x03,
            0x11,
            0x47,
            0x00, 0x01, 0x02, 0x03,
            0x04, 0x05, 0x06, 0x07,
            0x41, 0x42, 0x43, 0x44,
            0x45, 0x46, 0x47, 0x48,
            0x61, 0x62, 0x63, 0x64,
            0x65, 0x66, 0x67, 0x68,
            0x20, 0x20, 0x20, 0x20,
            0x20, 0x20, 0x20, 0x20,
            0x20, 0x20, 0x20, 0x20,
            0x20, 0x20, 0x20, 0x20,
            0x20, 0x20, 0x20, 0x20,
            0x20, 0x20, 0x20, 0x20,
            0x20, 0x20, 0x20, 0x20,
            0x20, 0x20, 0x20, 0x20,
            0x20, 0x20, 0x20, 0x20,
            0x20, 0x20, 0x20, 0x20,
            0x20, 0x20, 0x20, 0x20,
            0x20, 0x20, 0x20, 0x20,
            0x20, 0x20, 0x20, 0x20,
            0x20, 0x20, 0x20, 0x20,
            0x20, 0x20
ENDARRAY

/* years */
```

```
BEGINARRAY(YEAR_98, 2)
                    0x09, 0x08
ENDARRAY

/* months */
BEGINARRAY(MONTH_01, 2)
                    0x00, 0x01
ENDARRAY

BEGINARRAY(MONTH_12, 2)
                    0x01, 0x02
ENDARRAY

/* days */
BEGINARRAY(DAY_02, 2)
                    0x00, 0x02
ENDARRAY

BEGINARRAY(DAY_07, 2)
                    0x00, 0x07
ENDARRAY

/* hours */
BEGINARRAY(HOUR_01, 2)
                    0x00, 0x01
ENDARRAY

BEGINARRAY(HOUR_12, 2)
                    0x01, 0x02
ENDARRAY

/* minutes */
BEGINARRAY(MINUTE_34, 2)
                    0x03, 0x04
ENDARRAY

BEGINARRAY(MINUTE_35, 2)
                    0x03, 0x05
ENDARRAY

BEGINARRAY(MINUTE_52, 2)
                    0x05, 0x02
ENDARRAY

/* seconds */
BEGINARRAY(SECOND_13, 2)
                    0x01, 0x03
ENDARRAY

BEGINARRAY(SECOND_50, 2)
                    0x05, 0x00
ENDARRAY

BEGINARRAY(SECOND_56, 2)
                    0x05, 0x06
ENDARRAY

BEGINARRAY(SECOND_59, 2)
```

```
                  0x05, 0x09
ENDARRAY

/* message identifiers */
BEGINARRAY(MSG_ID_3_7_11_TO_13_14PLUS, MAX_IDENTS)
            0x0003, 0x0003,
            0x0007, 0x0007,
            0x000B, 0x000D,
            0x000E, 0x000E,
            0x000F, 0x000F,
            0x0010, 0x0010,
            0x0011, 0x0011,
            0x0012, 0x0012,
            0x0013, 0x0013,
            0x0014, 0x0014
ENDARRAY

/* data coding schemes */
BEGINARRAY(DCS_ID_0_PLUS, MAX_IDENTS)
            0x0000, 0x0000,
            0x0001, 0x0001,
            0x0002, 0x0002,
            0x0003, 0x0003,
            0x0004, 0x0004,
            0x0005, 0x0005,
            0x0006, 0x0006,
            0x0007, 0x0007,
            0x0008, 0x0008,
            0x0009, 0x0009
ENDARRAY

/* short message status table */
BEGINARRAY(STATUS_6, 128)
            0x00, 0x70, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
            0x00, 0x07, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
            0x00, 0x00, 0x70, 0x00, 0x00, 0x00, 0x00, 0x00,
            0x00, 0x00, 0x07, 0x00, 0x00, 0x00, 0x00, 0x00,
            0x00, 0x00, 0x00, 0x70, 0x00, 0x00, 0x00, 0x00,
            0x00, 0x00, 0x00, 0x07, 0x00, 0x00, 0x00, 0x00,
            0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
            0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
            0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
            0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
            0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
            0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
            0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
            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(STATUS_5, 128)
            0x00, 0x70, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
            0x00, 0x07, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
            0x00, 0x00, 0x70, 0x00, 0x00, 0x00, 0x00, 0x00,
            0x00, 0x00, 0x07, 0x00, 0x00, 0x00, 0x00, 0x00,
            0x00, 0x00, 0x00, 0x70, 0x00, 0x00, 0x00, 0x00,
            0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
            0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
            0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
            0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
            0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
            0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
            0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
            0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
            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 message status table */
BEGINARRAY(STATUS_PDU, 128)
            0x00, 0x1F, 0x30, 0x00, 0x50, 0x00, 0x00, 0x00,
            0x00, 0x05, 0x00, 0x00, 0x70, 0x10, 0x00, 0x00,
            0x70, 0x00, 0x00, 0x03, 0x00, 0x00, 0x0F, 0x00,
            0x0F, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
            0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
            0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
            0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
            0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
            0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
            0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
            0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
            0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
            0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
            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



/* SMS-SUBMIT */

/* SM7_EMPTY*/
BEGIN_PSTRUCT ("sms_sdu", SM7_EMPTY)
            SET_COMP ("l_buf",        0x00)
            SET_COMP ("o_buf",        0x00)
            SET_COMP ("buf", 0x00)
ENDSTRUCT

/* DA_98765, SA_12345, PID_SM_TYPE_0, DCS_1, SM7_ABCDEFGHI */
BEGIN_PSTRUCT ("sms_sdu", SM7_ABCDEFGHI_01)
            SET_COMP ("l_buf",        L_SM7_ABCDEFGHI_01*8)
            SET_COMP ("o_buf",        0x00)
            SET_COMP ("buf", D_SM7_ABCDEFGHI_01)
ENDSTRUCT
BEGINARRAY_PART(D_SM7_ABCDEFGHI_01, L_SM7_ABCDEFGHI_01)
            0x04, 0x81, 0x21, 0x43, 0xF5,
            0x01, 0x00, 0x05, 0x81, 0x89, 0x67, 0xF5,
            0x40, 0xF2, 0x09, 0x41, 0xE1, 0x90, 0x58, 0x34, 0x1E, 0x91, 0x49
ENDARRAY

/* DA_98765, SA_ALT, PID_SM_TYPE_0, DCS_1, SM7_ABCDEFGHI */
```

```
BEGIN_PSTRUCT ("sms_sdu", SM7_ABCDEFGHI_02)
        SET_COMP ("l_buf",        L_SM7_ABCDEFGHI_02*8)
        SET_COMP ("o_buf",        0x00)
        SET_COMP ("buf", D_SM7_ABCDEFGHI_02)
ENDSTRUCT
BEGINARRAY_PART(D_SM7_ABCDEFGHI_02, L_SM7_ABCDEFGHI_02)
        0x06, 0x81, 0x69, 0x23, 0x41, 0x87, 0xF5,
        0x01, 0x00, 0x05, 0x81, 0x89, 0x67, 0xF5,
        0x40, 0xF2, 0x09, 0x41, 0xE1, 0x90, 0x58, 0x34, 0x1E, 0x91, 0x49
ENDARRAY

/* DA_98765, SA_12345, PID_SM_TYPE_0, DCS_1, VP_REL_23, SM7_ABCDEFGHI */
BEGIN_PSTRUCT ("sms_sdu", SM7_ABCDEFGHI_03)
        SET_COMP ("l_buf",        L_SM7_ABCDEFGHI_03*8)
        SET_COMP ("o_buf",        0x00)
        SET_COMP ("buf", D_SM7_ABCDEFGHI_03)
ENDSTRUCT
BEGINARRAY_PART(D_SM7_ABCDEFGHI_03, L_SM7_ABCDEFGHI_03)
        0x04, 0x81, 0x21, 0x43, 0xF5,
        0x11, 0x00, 0x05, 0x81, 0x89, 0x67, 0xF5,
        0x40, 0xF2, 0x23,
        0x09, 0x41, 0xE1, 0x90, 0x58, 0x34, 0x1E, 0x91, 0x49
ENDARRAY

/* DA_98765, SA_ALT, PID_SM_TYPE_0, DCS_1, VP_REL_23, SM7_ABCDEFGHI */
BEGIN_PSTRUCT ("sms_sdu", SM7_ABCDEFGHI_04)
        SET_COMP ("l_buf",        L_SM7_ABCDEFGHI_04*8)
        SET_COMP ("o_buf",        0x00)
        SET_COMP ("buf", D_SM7_ABCDEFGHI_04)
ENDSTRUCT
BEGINARRAY_PART(D_SM7_ABCDEFGHI_04, L_SM7_ABCDEFGHI_04)
        0x06, 0x81, 0x69, 0x23, 0x41, 0x87, 0xF5,
        0x11, 0x00, 0x05, 0x81, 0x89, 0x67, 0xF5,
        0x40, 0xF2, 0x23,
        0x09, 0x41, 0xE1, 0x90, 0x58, 0x34, 0x1E, 0x91, 0x49
ENDARRAY

/* DA_98765, SA_12345, PID_SM_TYPE_0, DCS_1, VP_A9801071234564, SM7_ABCDEFGHI */
BEGIN_PSTRUCT ("sms_sdu", SM7_ABCDEFGHI_05)
        SET_COMP ("l_buf",        L_SM7_ABCDEFGHI_05*8)
        SET_COMP ("o_buf",        0x00)
        SET_COMP ("buf", D_SM7_ABCDEFGHI_05)
ENDSTRUCT
BEGINARRAY_PART(D_SM7_ABCDEFGHI_05, L_SM7_ABCDEFGHI_05)
        0x04, 0x81, 0x21, 0x43, 0xF5,
        0x19, 0x00, 0x05, 0x81, 0x89, 0x67, 0xF5,
        0x40, 0xF2, 0x89, 0x10, 0x70, 0x21, 0x43, 0x65, 0x40,
        0x09, 0x41, 0xE1, 0x90, 0x58, 0x34, 0x1E, 0x91, 0x49
ENDARRAY

/* DA_98765, SA_ALT, PID_SM_TYPE_0, DCS_1, VP_A9801071234564, SM7_ABCDEFGHI */
BEGIN_PSTRUCT ("sms_sdu", SM7_ABCDEFGHI_06)
        SET_COMP ("l_buf",        L_SM7_ABCDEFGHI_06*8)
        SET_COMP ("o_buf",        0x00)
        SET_COMP ("buf", D_SM7_ABCDEFGHI_06)
ENDSTRUCT
BEGINARRAY_PART(D_SM7_ABCDEFGHI_06, L_SM7_ABCDEFGHI_06)
        0x06, 0x81, 0x69, 0x23, 0x41, 0x87, 0xF5,
        0x19, 0x00, 0x05, 0x81, 0x89, 0x67, 0xF5,
        0x40, 0xF2, 0x89, 0x10, 0x70, 0x21, 0x43, 0x65, 0x40,
        0x09, 0x41, 0xE1, 0x90, 0x58, 0x34, 0x1E, 0x91, 0x49
ENDARRAY

/* DA_98765, SA_12345, PID_SM_TYPE_0, DCS_DEF_ALPH, VP_A9801071234564, SM7_ABCDEFGHI */
BEGIN_PSTRUCT ("sms_sdu", SM7_ABCDEFGHI_07)
        SET_COMP ("l_buf",          L_SM7_ABCDEFGHI_07*8)
        SET_COMP ("o_buf",          0x00)
        SET_COMP ("buf", D_SM7_ABCDEFGHI_07)
ENDSTRUCT
BEGINARRAY_PART(D_SM7_ABCDEFGHI_07, L_SM7_ABCDEFGHI_07)
            0x04, 0x81, 0x21, 0x43, 0xF5,
            0x19, 0x00, 0x05, 0x81, 0x89, 0x67, 0xF5,
            0x40, 0x00, 0x89, 0x10, 0x70, 0x21, 0x43, 0x65, 0x40,
            0x09, 0x41, 0xE1, 0x90, 0x58, 0x34, 0x1E, 0x91, 0x49
ENDARRAY

/* DA_654321, SA_12345, PID_SM_TYPE_0, DCS_DEF_ALPH, VP_A9801071234564, SM7_ABCDEFGHI */
BEGIN_PSTRUCT ("sms_sdu", SM7_ABCDEFGHI_08)
        SET_COMP ("l_buf",          L_SM7_ABCDEFGHI_08*8)
        SET_COMP ("o_buf",          0x00)
        SET_COMP ("buf", D_SM7_ABCDEFGHI_08)
ENDSTRUCT
BEGINARRAY_PART(D_SM7_ABCDEFGHI_08, L_SM7_ABCDEFGHI_08)
            0x04, 0x81, 0x21, 0x43, 0xF5,
            0x19, 0x00, 0x06, 0x81, 0x56, 0x34, 0x12,
            0x40, 0x00, 0x89, 0x10, 0x70, 0x21, 0x43, 0x65, 0x40,
            0x09, 0x41, 0xE1, 0x90, 0x58, 0x34, 0x1E, 0x91, 0x49
ENDARRAY

/* without destination address, SA_12345, PID_SM_TYPE_0, DCS_DEF_ALPH, VP_A9801071234564, SM7_ABCDEFGHI */
BEGIN_PSTRUCT ("sms_sdu", SM7_ABCDEFGHI_09)
        SET_COMP ("l_buf",          L_SM7_ABCDEFGHI_09*8)
        SET_COMP ("o_buf",          0x00)
        SET_COMP ("buf", D_SM7_ABCDEFGHI_09)
ENDSTRUCT
BEGINARRAY_PART(D_SM7_ABCDEFGHI_09, L_SM7_ABCDEFGHI_09)
            0x04, 0x81, 0x21, 0x43, 0xF5,
            0x19, 0x00, 0x00, 0x80,
            0x40, 0x00, 0x89, 0x10, 0x70, 0x21, 0x43, 0x65, 0x40,
            0x09, 0x41, 0xE1, 0x90, 0x58, 0x34, 0x1E, 0x91, 0x49
ENDARRAY

/* DA_654321, SA_12345, PID_SM_TYPE_0, DCS_DEF_ALPH, VP_ENH_41A80000000000, SM7_ABCDEFGHI */
BEGIN_PSTRUCT ("sms_sdu", SM7_ABCDEFGHI_10)
        SET_COMP ("l_buf",          L_SM7_ABCDEFGHI_10*8)
        SET_COMP ("o_buf",          0x00)
        SET_COMP ("buf", D_SM7_ABCDEFGHI_10)
ENDSTRUCT
BEGINARRAY_PART(D_SM7_ABCDEFGHI_10, L_SM7_ABCDEFGHI_10)
            0x04, 0x81, 0x21, 0x43, 0xF5,
            0x09, 0x00, 0x06, 0x81, 0x56, 0x34, 0x12,
            0x40, 0x00, 0x41, 0xA8, 0x00, 0x00, 0x00, 0x00, 0x00,
            0x09, 0x41, 0xE1, 0x90, 0x58, 0x34, 0x1E, 0x91, 0x49
ENDARRAY

/* DA_654321, SA_12345, PID_SM_TYPE_0, DCS_DEF_ALPH, VP_ENH_023C0000000000, SM7_ABCDEFGHI */
```

```
BEGIN_PSTRUCT ("sms_sdu", SM7_ABCDEFGHI_11)
        SET_COMP ("l_buf",          L_SM7_ABCDEFGHI_11*8)
        SET_COMP ("o_buf",          0x00)
        SET_COMP ("buf", D_SM7_ABCDEFGHI_11)
ENDSTRUCT
BEGINARRAY_PART(D_SM7_ABCDEFGHI_11, L_SM7_ABCDEFGHI_11)
             0x04, 0x81, 0x21, 0x43, 0xF5,
             0x09, 0x00, 0x06, 0x81, 0x56, 0x34, 0x12,
             0x40, 0x00, 0x02, 0x3C, 0x00, 0x00, 0x00, 0x00, 0x00,
             0x09, 0x41, 0xE1, 0x90, 0x58, 0x34, 0x1E, 0x91, 0x49
ENDARRAY

/* DA_654321, SA_12345, PID_SM_TYPE_0, DCS_DEF_ALPH, VP_ENH_03214365000000, SM7_ABCDEFGHI */
BEGIN_PSTRUCT ("sms_sdu", SM7_ABCDEFGHI_12)
        SET_COMP ("l_buf",          L_SM7_ABCDEFGHI_12*8)
        SET_COMP ("o_buf",          0x00)
        SET_COMP ("buf", D_SM7_ABCDEFGHI_12)
ENDSTRUCT
BEGINARRAY_PART(D_SM7_ABCDEFGHI_12, L_SM7_ABCDEFGHI_12)
             0x04, 0x81, 0x21, 0x43, 0xF5,
             0x09, 0x00, 0x06, 0x81, 0x56, 0x34, 0x12,
             0x40, 0x00, 0x03, 0x21, 0x43, 0x65, 0x00, 0x00, 0x00,
             0x09, 0x41, 0xE1, 0x90, 0x58, 0x34, 0x1E, 0x91, 0x49
ENDARRAY

/* DA_491723987630, SA_ALT, PID_SM_DEF, DCS_DEF, SM7_ABC */
BEGIN_PSTRUCT ("sms_sdu", SM7_ABC_01)
        SET_COMP ("l_buf",          L_SM7_ABC_01*8)
        SET_COMP ("o_buf",          0x00)
        SET_COMP ("buf", D_SM7_ABC_01)
ENDSTRUCT
BEGINARRAY_PART(D_SM7_ABC_01, L_SM7_ABC_01)
        0x06, 0x81, 0x69, 0x23, 0x41, 0x87, 0xF5,
        0x01, 0x00, 0x0C, 0x91,  0x94, 0x71, 0x32, 0x89, 0x67, 0x03,
        0x00, 0x00,
        0x03, 0x41, 0xE1, 0x10
ENDARRAY

/* DA_491723987630, SA_ALT, PID_SM_DEF, DCS_DEF, SM7_ABC_17*/
BEGIN_PSTRUCT ("sms_sdu", SM7_ABC_17_01)
        SET_COMP ("l_buf",          L_SM7_ABC_17_01*8)
        SET_COMP ("o_buf",          0x00)
        SET_COMP ("buf", D_SM7_ABC_17_01)
ENDSTRUCT
BEGINARRAY_PART(D_SM7_ABC_17_01, L_SM7_ABC_17_01)
        0x06, 0x81, 0x69, 0x23, 0x41, 0x87, 0xF5,
        0x01, 0x00, 0x0C, 0x91, 0x94, 0x71, 0x32, 0x89, 0x67, 0x03,
        0x00, 0x00,
        0x11, 0x41, 0xE1, 0x90, 0x58, 0x34, 0x1E, 0x91, 0x41, 0xE1, 0x90, 0x58, 0x34, 0x1E, 0x91, 0x49
ENDARRAY

/* DA_14254448849, SA_ALT, PID_SM_DEF, DCS_MS, SM7_ABC_MS*/
BEGIN_PSTRUCT ("sms_sdu", SM7_ABC_MS_01)
        SET_COMP ("l_buf",          L_SM7_ABC_MS_01*8)
        SET_COMP ("o_buf",          0x00)
        SET_COMP ("buf", D_SM7_ABC_MS_01)
ENDSTRUCT
```

```
BEGINARRAY_PART(D_SM7_ABC_MS_01, 44)
        0x06, 0x81, 0x69, 0x23, 0x41, 0x87, 0xF5,
        0x01, 0x00, 0x0B, 0x91, 0x41, 0x52, 0x44, 0x84, 0x48, 0xF9,
        0x00, 0x11,
        0x1B,
        0x49, 0x33, 0x28, 0xFF, 0xAE, 0x83, 0xE6, 0xE5, 0x32, 0x88,
        0x8E, 0x4E, 0xCF, 0x41, 0xF9, 0x77, 0x1D, 0x14, 0x96, 0x97,
        0x41, 0xCF, 0x75, 0x08
ENDARRAY

/* DA_654321, SA_12345, PID_SM_TYPE_0, DCS_DEF_ALPH, VP_A9801071234564, SM7_SPECIAL_SIGNS */
BEGIN_PSTRUCT ("sms_sdu", SM7_SPECIAL_SIGNS_01)
        SET_COMP ("l_buf",          L_SM7_SPECIAL_SIGNS_01*8)
        SET_COMP ("o_buf",          0x00)
        SET_COMP ("buf", D_SM7_SPECIAL_SIGNS_01)
ENDSTRUCT
BEGINARRAY_PART(D_SM7_SPECIAL_SIGNS_01, L_SM7_SPECIAL_SIGNS_01)
             0x04, 0x81, 0x21, 0x43, 0xF5,
             0x19, 0x00, 0x06, 0x81, 0x56, 0x34, 0x12,
             0x40, 0x00, 0x89, 0x10, 0x70, 0x21, 0x43, 0x65, 0x40,
             0x15,
             0x02, 0xC0, 0x37, 0xE1, 0x2F, 0xEC, 0xFF, 0x0F, 0xC2,
             0x61, 0xEB, 0xE0, 0x23, 0x0C, 0x5C, 0x6F, 0x60, 0xD0, 0x05
ENDARRAY

/* DA_654321, SA_12345, PID_SM_TYPE_0, DCS_2, VP_A9801071234564, SM8_HEX_SPECIAL_SIGNS */
BEGIN_PSTRUCT ("sms_sdu", SM8_HEX_SPECIAL_SIGNS_01)
        SET_COMP ("l_buf",          L_SM8_HEX_SPECIAL_SIGNS_01*8)
        SET_COMP ("o_buf",          0x00)
        SET_COMP ("buf", D_SM8_HEX_SPECIAL_SIGNS_01)
ENDSTRUCT
BEGINARRAY_PART(D_SM8_HEX_SPECIAL_SIGNS_01, L_SM8_HEX_SPECIAL_SIGNS_01)
             0x04, 0x81, 0x21, 0x43, 0xF5,
             0x19, 0x00, 0x06, 0x81, 0x56, 0x34, 0x12,
             0x40, 0xF4, 0x89, 0x10, 0x70, 0x21, 0x43, 0x65, 0x40,
             0x16,
             0x00, 0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x07, 0x08, 0x09, 0xFF,
             0xFE, 0xFD, 0xFC, 0xFB, 0xFA, 0xF0, 0x00, 0x12, 0x34, 0x56, 0x78
ENDARRAY



/*SMS-SUBMIT-REPORT for RP-ACK*/
/* SA_12345, VP_A9801071234564 (TP-SCTS)*/
BEGIN_PSTRUCT ("sms_sdu", SUBMIT_REPORT_ACK_01)
        SET_COMP ("l_buf",          L_SUBMIT_REPORT_ACK_01*8)
        SET_COMP ("o_buf",          0x00)
        SET_COMP ("buf", D_SUBMIT_REPORT_ACK_01)
ENDSTRUCT
BEGINARRAY_PART(D_SUBMIT_REPORT_ACK_01, L_SUBMIT_REPORT_ACK_01)
        0x04, 0x81, 0x21, 0x43, 0xF5,
        0x01, 0x03, 0x89, 0x10, 0x70, 0x21, 0x43, 0x65, 0x40
ENDARRAY

/*SMS-SUBMIT-REPORT for RP-ERROR*/
/* SA_12345, VP_A9801071234564 (TP-SCTS)*, FCS:5 */
BEGIN_PSTRUCT ("sms_sdu", SUBMIT_REPORT_ERR_01)
        SET_COMP ("l_buf",          L_SUBMIT_REPORT_ERR_01*8)
        SET_COMP ("o_buf",      0x00)
        SET_COMP ("buf", D_SUBMIT_REPORT_ERR_01)
ENDSTRUCT
BEGINARRAY_PART(D_SUBMIT_REPORT_ERR_01, L_SUBMIT_REPORT_ERR_01)
        0x04, 0x81, 0x21, 0x43, 0xF5,
        0x01, 0x05, 0x03, 0x89, 0x10, 0x70, 0x21, 0x43, 0x65, 0x40
ENDARRAY



/* SMS-DELIVER */
/* SA_12345, OA_98765, PID_SM_TYPE_0, DCS_1(class 2), VP_A9801071234564 (TP-SCTS)
 --- empty user data --- */
BEGIN_PSTRUCT ("sms_sdu", DELIVER_01)
        SET_COMP ("l_buf",      L_DELIVER_01*8)
        SET_COMP ("o_buf",      0x00)
        SET_COMP ("buf", D_DELIVER_01)
ENDSTRUCT
BEGINARRAY_PART(D_DELIVER_01, L_DELIVER_01)
        0x04, 0x81, 0x21, 0x43, 0xF5,
        0x00, 0x05, 0x81, 0x89, 0x67, 0xF5,
        0x40, 0xF2, 0x89, 0x10, 0x70, 0x21, 0x43, 0x65, 0x40,
        0x00
ENDARRAY

/* SA_12345, OA_987654, PID_SM_TYPE_0, DCS_DEF_ALPH, VP_A9801071234564 (TP-SCTS),
   SM7_ABCDEFGHI */
BEGIN_PSTRUCT ("sms_sdu", DELIVER_02)
        SET_COMP ("l_buf",      L_DELIVER_02*8)
        SET_COMP ("o_buf",      0x00)
        SET_COMP ("buf", D_DELIVER_02)
ENDSTRUCT
BEGINARRAY_PART(D_DELIVER_02, L_DELIVER_02)
        0x04, 0x81, 0x21, 0x43, 0xF5,
        0x00, 0x06, 0x81, 0x89, 0x67, 0x45,
        0x40, 0x00, 0x89, 0x10, 0x70, 0x21, 0x43, 0x65, 0x40,
        0x09, 0x41, 0xE1, 0x90, 0x58, 0x34, 0x1E, 0x91, 0x49
ENDARRAY

/* SA_12345, OA_987654, PID_SM_TYPE_0, DCS_DEF_ALPH, VP_A9801071234564 (TP-SCTS),
   SM7_0123456789_RPT */
BEGIN_PSTRUCT ("sms_sdu", DELIVER_03)
        SET_COMP ("l_buf",      L_DELIVER_03*8)
        SET_COMP ("o_buf",      0x00)
        SET_COMP ("buf", D_DELIVER_03)
ENDSTRUCT
BEGINARRAY_PART(D_DELIVER_03, L_DELIVER_03)
        0x04, 0x81, 0x21, 0x43, 0xF5,
        0x00, 0x06, 0x81, 0x89, 0x67, 0x45,
        0x40, 0x00, 0x89, 0x10, 0x70, 0x21, 0x43, 0x65, 0x40,
        0xA0,
        0xB0, 0x98, 0x6C, 0x46, 0xAB, 0xD9, 0x6E, 0xB8, 0x1C, 0x2C, 0x26, 0x9B, 0xD1, 0x6A,
        0xB6, 0x1B, 0x2E, 0x07, 0x8B, 0xC9, 0x66, 0xB4, 0x9A, 0xED, 0x86, 0xCB, 0xC1, 0x62,
        0xB2, 0x19, 0xAD, 0x66, 0xBB, 0xE1, 0x72, 0xB0, 0x98, 0x6C, 0x46, 0xAB, 0xD9, 0x6E,
        0xB8, 0x1C, 0x2C, 0x26, 0x9B, 0xD1, 0x6A, 0xB6, 0x1B, 0x2E, 0x07, 0x8B, 0xC9, 0x66,
        0xB4, 0x9A, 0xED, 0x86, 0xCB, 0xC1, 0x62, 0xB2, 0x19, 0xAD, 0x66, 0xBB, 0xE1, 0x72,
        0xB0, 0x98, 0x6C, 0x46, 0xAB, 0xD9, 0x6E, 0xB8, 0x1C, 0x2C, 0x26, 0x9B, 0xD1, 0x6A,
        0xB6, 0x1B, 0x2E, 0x07, 0x8B, 0xC9, 0x66, 0xB4, 0x9A, 0xED, 0x86, 0xCB, 0xC1, 0x62,
        0xB2, 0x19, 0xAD, 0x66, 0xBB, 0xE1, 0x72, 0xB0, 0x98, 0x6C, 0x46, 0xAB, 0xD9, 0x6E,
        0xB8, 0x1C, 0x2C, 0x26, 0x9B, 0xD1, 0x6A, 0xB6, 0x1B, 0x2E, 0x07, 0x8B, 0xC9, 0x66,
        0xB4, 0x9A, 0xED, 0x86, 0xCB, 0xC1, 0x62, 0xB2, 0x19, 0xAD, 0x66, 0xBB, 0xE1, 0x72
ENDARRAY

/* SA_12345, OA_987654, PID_SM_TYPE_0, DCS_DEF_ALPH, VP_A9801071234564 (TP-SCTS),
  SM7_UDH_ABCDEFGHI  --  includes user data header  -- */
BEGIN_PSTRUCT ("sms_sdu", DELIVER_04)
        SET_COMP ("l_buf",          L_DELIVER_04*8)
        SET_COMP ("o_buf",          0x00)
        SET_COMP ("buf", D_DELIVER_04)
ENDSTRUCT
BEGINARRAY_PART(D_DELIVER_04, L_DELIVER_04)
        0x04, 0x81, 0x21, 0x43, 0xF5,
        0x40, 0x06, 0x81, 0x89, 0x67, 0x45,
        0x40, 0x00, 0x89, 0x10, 0x70, 0x21, 0x43, 0x65, 0x40,
        0x0E,
        0x03, 0x0A, 0x0B, 0x0C,
        0x08, 0x0A, 0x87, 0xC4, 0xA2, 0xF1, 0x88, 0x4C, 0x02
ENDARRAY

/* SA_12345, OA_987654, PID_SM_TYPE_0, DCS_1, VP_A9801071234564 (TP-SCTS),
  SM7_ABCDEFGHI */
BEGIN_PSTRUCT ("sms_sdu", DELIVER_05)
        SET_COMP ("l_buf",          L_DELIVER_05*8)
        SET_COMP ("o_buf",          0x00)
        SET_COMP ("buf", D_DELIVER_05)
ENDSTRUCT
BEGINARRAY_PART(D_DELIVER_05, L_DELIVER_05)
        0x04, 0x81, 0x21, 0x43, 0xF5,
        0x00, 0x06, 0x81, 0x89, 0x67, 0x45,
        0x40, 0xF2, 0x89, 0x10, 0x70, 0x21, 0x43, 0x65, 0x40,
        0x09, 0x41, 0xE1, 0x90, 0x58, 0x34, 0x1E, 0x91, 0x49
ENDARRAY

/* SA_12345, OA_987654, PID_SM_TYPE_0, DCS_8_BIT, VP_A9801071234564 (TP-SCTS),
  SM8_ABCDEFGHI */
BEGIN_PSTRUCT ("sms_sdu", DELIVER_06)
        SET_COMP ("l_buf",          L_DELIVER_06*8)
        SET_COMP ("o_buf",          0x00)
        SET_COMP ("buf", D_DELIVER_06)
ENDSTRUCT
BEGINARRAY_PART(D_DELIVER_06, L_DELIVER_06)
        0x04, 0x81, 0x21, 0x43, 0xF5,
        0x00, 0x06, 0x81, 0x89, 0x67, 0x45,
        0x40, 0xF4, 0x89, 0x10, 0x70, 0x21, 0x43, 0x65, 0x40,
        0x09, 0x41, 0x42, 0x43, 0x44, 0x45, 0x46, 0x47, 0x48, 0x49
ENDARRAY

/* SA_12345, OA_654321, PID_SM_TYPE_0, DCS_DEF_ALPH, VP_A9801071234564 (TP-SCTS),
  SM7_ABCDEFGHI */
BEGIN_PSTRUCT ("sms_sdu", DELIVER_07)
        SET_COMP ("l_buf",          L_DELIVER_07*8)
        SET_COMP ("o_buf",          0x00)
        SET_COMP ("buf", D_DELIVER_07)
ENDSTRUCT
BEGINARRAY_PART(D_DELIVER_07, L_DELIVER_07)
        0x04, 0x81, 0x21, 0x43, 0xF5,
        0x00, 0x06, 0x81, 0x56, 0x34, 0x12,
        0x40, 0x00, 0x89, 0x10, 0x70, 0x21, 0x43, 0x65, 0x40,
        0x09, 0x41, 0xE1, 0x90, 0x58, 0x34, 0x1E, 0x91, 0x49
ENDARRAY

/* SA_12345, OA_www.ti.de, PID_SM_TYPE_0, DCS_DEF_ALPH, VP_A9801071234564 (TP-SCTS),
   SM7_ABCDEFGHI */
BEGIN_PSTRUCT ("sms_sdu", DELIVER_08)
        SET_COMP ("l_buf",          L_DELIVER_08*8)
        SET_COMP ("o_buf",          0x00)
        SET_COMP ("buf", D_DELIVER_08)
ENDSTRUCT
BEGINARRAY_PART(D_DELIVER_08, L_DELIVER_08)
        0x04, 0x81, 0x21, 0x43, 0xF5,
        0x00, 0x10, 0xD0, 0xF7, 0xFB, 0xDD, 0x45, 0x4F, 0xBB, 0xC8, 0x65,
        0x40, 0x00, 0x89, 0x10, 0x70, 0x21, 0x43, 0x65, 0x40,
        0x09, 0x41, 0xE1, 0x90, 0x58, 0x34, 0x1E, 0x91, 0x49
ENDARRAY

□

/*SMS-DELIVER-REPORT for RP-ACK*/
/* SA_12345 */
BEGIN_PSTRUCT ("sms_sdu", DELIVER_REPORT_ACK_01)
        SET_COMP ("l_buf",          0x00)
        SET_COMP ("o_buf",          0x00)
        SKIP_COMP ("buf")
ENDSTRUCT



/*SMS-STATUS-REPORT*/
/* SA_12345, (SUBMIT), MSG_REF_AC, RA_987654, SC_TIME_9801071234564,
   RC_TIME_9801071234564, STAT_SH_MES_REC_SME (=0x00) */
BEGIN_PSTRUCT ("sms_sdu", STATUS_REPORT_01)
        SET_COMP ("l_buf",          L_STATUS_REPORT_01*8)
        SET_COMP ("o_buf",          0x00)
        SET_COMP ("buf", D_STATUS_REPORT_01)
ENDSTRUCT
BEGINARRAY_PART(D_STATUS_REPORT_01, L_STATUS_REPORT_01)
        0x04, 0x81, 0x21, 0x43, 0xF5,
        0x02, 0xAC, 0x06, 0x81, 0x89, 0x67, 0x45,
        0x89, 0x10, 0x70, 0x21, 0x43, 0x65, 0x40,
        0x89, 0x10, 0x70, 0x21, 0x43, 0x05, 0x40,
        0x00
ENDARRAY

/* SA_12345, (COMMAND), MSG_REF_02, RA_987654, SC_TIME_9801071234564,
   RC_TIME_9801071234564, STAT_POS_ACK(=0x80) */
BEGIN_PSTRUCT ("sms_sdu", STATUS_REPORT_02)
        SET_COMP ("l_buf",          L_STATUS_REPORT_02*8)
        SET_COMP ("o_buf",          0x00)
        SET_COMP ("buf", D_STATUS_REPORT_02)
ENDSTRUCT
BEGINARRAY_PART(D_STATUS_REPORT_02, L_STATUS_REPORT_02)
        0x04, 0x81, 0x21, 0x43, 0xF5,
        0x22, 0x02, 0x06, 0x81, 0x89, 0x67, 0x45,
        0x89, 0x10, 0x70, 0x21, 0x43, 0x65, 0x04,
            0x89, 0x10, 0x70, 0x21, 0x43, 0x65, 0x04,
            0x80
ENDARRAY



/*SMS-COMMAND*/
/* SA_12345, PID_SM_TYPE_0, SMS_CMD_REQ_STAT_REP(=0x03), MSG_REF_02 (for TP_MN), NO_DA
 --- request status report-- */
BEGIN_PSTRUCT ("sms_sdu", COMMAND_01)
            SET_COMP ("l_buf",          L_COMMAND_01*8)
            SET_COMP ("o_buf",          0x00)
            SET_COMP ("buf", D_COMMAND_01)
ENDSTRUCT
BEGINARRAY_PART(D_COMMAND_01, L_COMMAND_01)
                    0x04, 0x81, 0x21, 0x43, 0xF5,
                    0x02, 0x00, 0x40, 0x03, 0x02,
                    0x00, 0x00,
                    0x00
ENDARRAY

/* SA_12345, PID_SM_TYPE_0, SMS_CMD_REQ_STAT_REP(=0x03), MSG_REF_02 (for TP_MN), DA_654321  --- request status
report --- */
BEGIN_PSTRUCT ("sms_sdu", COMMAND_02)
            SET_COMP ("l_buf",          L_COMMAND_02*8)
            SET_COMP ("o_buf",          0x00)
            SET_COMP ("buf", D_COMMAND_02)
ENDSTRUCT
BEGINARRAY_PART(D_COMMAND_02, L_COMMAND_02)
                    0x04, 0x81, 0x21, 0x43, 0xF5,
                    0x02, 0x00, 0x40, 0x03, 0x02,
                    0x06, 0x81, 0x56, 0x34, 0x12,
                    0x00
ENDARRAY

/* SA_12345, PID_SM_TYPE_0, SMS_CMD_REQ_STAT_REP(=0x03), MSG_REF_02 (for TP_MN), DA_98765 --- request status
report --- */
BEGIN_PSTRUCT ("sms_sdu", COMMAND_03)
            SET_COMP ("l_buf",          L_COMMAND_03*8)
            SET_COMP ("o_buf",          0x00)
            SET_COMP ("buf", D_COMMAND_03)
ENDSTRUCT
BEGINARRAY_PART(D_COMMAND_03, L_COMMAND_03)
                    0x04, 0x81, 0x21, 0x43, 0xF5,
                    0x02, 0x00, 0x40, 0x03, 0x02,
                    0x05, 0x81, 0x89, 0x67, 0xF5,
                    0x00
ENDARRAY

/* SA_12345, PID_SM_TYPE_0, SMS_CMD_REQ_STAT_REP(=0x03), MSG_REF_02 (for TP_MN), NO_DA
--- request status report, with command data--- */
BEGIN_PSTRUCT ("sms_sdu", COMMAND_04)
            SET_COMP ("l_buf",          L_COMMAND_04*8)
            SET_COMP ("o_buf",          0x00)
            SET_COMP ("buf", D_COMMAND_04)
ENDSTRUCT
BEGINARRAY_PART(D_COMMAND_04, L_COMMAND_04)
                    0x04, 0x81, 0x21, 0x43, 0xF5,
             0x02, 0x00, 0x40, 0x03, 0x02,
             0x00, 0x00,
             0x05, 0x12, 0x34, 0x56, 0x78, 0x90
ENDARRAY
```

/* SA_12345, PID_SM_TYPE_0, SMS_CMD_REQ_STAT_REP(=0x03), MSG_REF_02 (for TP_MN), DA_98765 --- request status report, with command data --- */

```
BEGIN_PSTRUCT ("sms_sdu", COMMAND_05)
        SET_COMP ("l_buf",          L_COMMAND_05*8)
        SET_COMP ("o_buf",          0x00)
        SET_COMP ("buf", D_COMMAND_05)
ENDSTRUCT
BEGINARRAY_PART(D_COMMAND_05, L_COMMAND_05)
             0x04, 0x81, 0x21, 0x43, 0xF5,
             0x02, 0x00, 0x40, 0x03, 0x02,
             0x05, 0x81, 0x89, 0x67, 0xF5,
             0x05, 0x12, 0x34, 0x56, 0x78, 0x90
ENDARRAY
```

/* Concatenated SMS */

/* SA_12345, PID_SM_TYPE_0, DCS_DEF_ALPH, VP_A9801071234564, segment
size: 15 chars, Ref-Num: 0x01, 3 segments,
"ABCDEFGHIJKLMN1" */

```
BEGIN_PSTRUCT ("sms_sdu", SUBMIT_CONC_01_1)
        SET_COMP ("l_buf",          L_SUBMIT_CONC_01_1*8)
        SET_COMP ("o_buf",          0x00)
        SET_COMP ("buf", D_SUBMIT_CONC_01_1)
ENDSTRUCT
BEGINARRAY_PART(D_SUBMIT_CONC_01_1, L_SUBMIT_CONC_01_1)
        0x04, 0x81, 0x21, 0x43, 0xF5,
        0x59, 0x00,
      0x06, 0x81, 0x56, 0x34, 0x12,
        0x40, 0x00,
      0x89, 0x10, 0x70, 0x21, 0x43, 0x65, 0x40,
      0x16,
      0x05, 0x00, 0x03, 0x01, 0x03, 0x01,
        0x82, 0xC2, 0x21, 0xB1, 0x68, 0x3C, 0x22, 0x93, 0xCA, 0x25, 0xB3, 0xE9, 0x8C, 0x01
ENDARRAY

/*"ABCDEFGHIJKLMN2" */
BEGIN_PSTRUCT ("sms_sdu", SUBMIT_CONC_01_2)
        SET_COMP ("l_buf",          L_SUBMIT_CONC_01_2*8)
        SET_COMP ("o_buf",          0x00)
        SET_COMP ("buf", D_SUBMIT_CONC_01_2)
ENDSTRUCT
BEGINARRAY_PART(D_SUBMIT_CONC_01_2, L_SUBMIT_CONC_01_2)
        0x04, 0x81, 0x21, 0x43, 0xF5,
        0x59, 0x00,
      0x06, 0x81, 0x56, 0x34, 0x12,
        0x40, 0x00,
      0x89, 0x10, 0x70, 0x21, 0x43, 0x65, 0x40,
      0x16,
      0x05, 0x00, 0x03, 0x01, 0x03, 0x02,
        0x82, 0xC2, 0x21, 0xB1, 0x68, 0x3C, 0x22, 0x93, 0xCA, 0x25, 0xB3, 0xE9, 0x94, 0x01
ENDARRAY
```

```
/*"ABCDEFGHIJKLMN3" */
BEGIN_PSTRUCT ("sms_sdu", SUBMIT_CONC_01_3)
            SET_COMP ("l_buf",              L_SUBMIT_CONC_01_3*8)
            SET_COMP ("o_buf",              0x00)
            SET_COMP ("buf", D_SUBMIT_CONC_01_3)
ENDSTRUCT
BEGINARRAY_PART(D_SUBMIT_CONC_01_3, L_SUBMIT_CONC_01_3)
            0x04, 0x81, 0x21, 0x43, 0xF5,
            0x59, 0x00,
         0x06, 0x81, 0x56, 0x34, 0x12,
            0x40, 0x00,
         0x89, 0x10, 0x70, 0x21, 0x43, 0x65, 0x40,
         0x16,
         0x05, 0x00, 0x03, 0x01, 0x03, 0x03,
         0x82, 0xC2, 0x21, 0xB1, 0x68, 0x3C, 0x22, 0x93, 0xCA, 0x25, 0xB3, 0xE9, 0x9C, 0x01
ENDARRAY


/* SA_12345, PID_SM_TYPE_0, DCS_DEF_ALPH, VP_A9801071234564, segment
   size: 15 chars, Ref-Num: 0x02, 4 segments,
   "ABCDEFGHIJKLMN1" */
BEGIN_PSTRUCT ("sms_sdu", SUBMIT_CONC_02_1)
            SET_COMP ("l_buf",              L_SUBMIT_CONC_02_1*8)
            SET_COMP ("o_buf",              0x00)
            SET_COMP ("buf", D_SUBMIT_CONC_02_1)
ENDSTRUCT
BEGINARRAY_PART(D_SUBMIT_CONC_02_1, L_SUBMIT_CONC_02_1)
            0x04, 0x81, 0x21, 0x43, 0xF5,
            0x59, 0x00,
         0x06, 0x81, 0x56, 0x34, 0x12,
            0x40, 0x00,
         0x89, 0x10, 0x70, 0x21, 0x43, 0x65, 0x40,
         0x16,
         0x05, 0x00, 0x03, 0x02, 0x04, 0x01,
            0x82, 0xC2, 0x21, 0xB1, 0x68, 0x3C, 0x22, 0x93, 0xCA, 0x25, 0xB3, 0xE9, 0x8C, 0x01
ENDARRAY

/*"ABCDEFGHIJKLMN2" */
BEGIN_PSTRUCT ("sms_sdu", SUBMIT_CONC_02_2)
            SET_COMP ("l_buf",              L_SUBMIT_CONC_02_2*8)
            SET_COMP ("o_buf",              0x00)
            SET_COMP ("buf", D_SUBMIT_CONC_02_2)
ENDSTRUCT
BEGINARRAY_PART(D_SUBMIT_CONC_02_2, L_SUBMIT_CONC_02_2)
            0x04, 0x81, 0x21, 0x43, 0xF5,
            0x59, 0x00,
         0x06, 0x81, 0x56, 0x34, 0x12,
            0x40, 0x00,
         0x89, 0x10, 0x70, 0x21, 0x43, 0x65, 0x40,
         0x16,
         0x05, 0x00, 0x03, 0x02, 0x04, 0x02,
            0x82, 0xC2, 0x21, 0xB1, 0x68, 0x3C, 0x22, 0x93, 0xCA, 0x25, 0xB3, 0xE9, 0x94, 0x01
ENDARRAY

/*"ABCDEFGHIJKLMN3" */
BEGIN_PSTRUCT ("sms_sdu", SUBMIT_CONC_02_3)
            SET_COMP ("l_buf",              L_SUBMIT_CONC_02_3*8)
```

```
        SET_COMP ("o_buf",          0x00)
        SET_COMP ("buf", D_SUBMIT_CONC_02_3)
ENDSTRUCT
BEGINARRAY_PART(D_SUBMIT_CONC_02_3, L_SUBMIT_CONC_02_3)
        0x04, 0x81, 0x21, 0x43, 0xF5,
        0x59, 0x00,
      0x06, 0x81, 0x56, 0x34, 0x12,
        0x40, 0x00,
      0x89, 0x10, 0x70, 0x21, 0x43, 0x65, 0x40,
      0x16,
      0x05, 0x00, 0x03, 0x02, 0x04, 0x03,
      0x82, 0xC2, 0x21, 0xB1, 0x68, 0x3C, 0x22, 0x93, 0xCA, 0x25, 0xB3, 0xE9, 0x9C, 0x01
ENDARRAY

/*"ABCDEFGHIJKLMN4" */
BEGIN_PSTRUCT ("sms_sdu", SUBMIT_CONC_02_4)
        SET_COMP ("l_buf",          L_SUBMIT_CONC_02_4*8)
        SET_COMP ("o_buf",          0x00)
        SET_COMP ("buf", D_SUBMIT_CONC_02_4)
ENDSTRUCT
BEGINARRAY_PART(D_SUBMIT_CONC_02_4, L_SUBMIT_CONC_02_4)
        0x04, 0x81, 0x21, 0x43, 0xF5,
        0x59, 0x00,
      0x06, 0x81, 0x56, 0x34, 0x12,
        0x40, 0x00,
      0x89, 0x10, 0x70, 0x21, 0x43, 0x65, 0x40,
      0x16,
      0x05, 0x00, 0x03, 0x02, 0x04, 0x04,
      0x82, 0xC2, 0x21, 0xB1, 0x68, 0x3C, 0x22, 0x93, 0xCA, 0x25, 0xB3, 0xE9, 0xA4, 0x01
ENDARRAY




/* SA_12345, OA_987654, PID_SM_TYPE_0, DCS_DEF_ALPH, VP_A9801071234564 (TP-SCTS),
   segment size: 15 chars, Ref-Num: 0x00, 3 segments
   "ABCDEFGHIJKLMN1" */
BEGIN_PSTRUCT ("sms_sdu", DELIVER_CONC_01_1)
        SET_COMP ("l_buf",          L_DELIVER_CONC_01_1*8)
        SET_COMP ("o_buf",          0x00)
        SET_COMP ("buf", D_DELIVER_CONC_01_1)
ENDSTRUCT
BEGINARRAY_PART(D_DELIVER_CONC_01_1, L_DELIVER_CONC_01_1)
        0x04, 0x81, 0x21, 0x43, 0xF5,
        0x40, 0x06, 0x81, 0x89, 0x67, 0x45,
        0x40, 0x00, 0x89, 0x10, 0x70, 0x21, 0x43, 0x65, 0x40,
        0x16,
      0x05, 0x00, 0x03, 0x00, 0x03, 0x01,
      0x82, 0xC2, 0x21, 0xB1, 0x68, 0x3C, 0x22, 0x93, 0xCA, 0x25, 0xB3, 0xE9, 0x8C, 0x01

ENDARRAY

/*"ABCDEFGHIJKLMN2" */
BEGIN_PSTRUCT ("sms_sdu", DELIVER_CONC_01_2)
        SET_COMP ("l_buf",          L_DELIVER_CONC_01_2*8)
        SET_COMP ("o_buf",          0x00)
        SET_COMP ("buf", D_DELIVER_CONC_01_2)
ENDSTRUCT
```

```
BEGINARRAY_PART(D_DELIVER_CONC_01_2, L_DELIVER_CONC_01_2)
        0x04, 0x81, 0x21, 0x43, 0xF5,
        0x40, 0x06, 0x81, 0x89, 0x67, 0x45,
        0x40, 0x00, 0x89, 0x10, 0x70, 0x21, 0x43, 0x65, 0x40,
        0x16,
      0x05, 0x00, 0x03, 0x00, 0x03, 0x02,
        0x82, 0xC2, 0x21, 0xB1, 0x68, 0x3C, 0x22, 0x93, 0xCA, 0x25, 0xB3, 0xE9, 0x94, 0x01
ENDARRAY

/*"ABCDEFGHIJKLMN3" */
BEGIN_PSTRUCT ("sms_sdu", DELIVER_CONC_01_3)
        SET_COMP ("l_buf",          L_DELIVER_CONC_01_3*8)
        SET_COMP ("o_buf",          0x00)
        SET_COMP ("buf", D_DELIVER_CONC_01_3)
ENDSTRUCT
BEGINARRAY_PART(D_DELIVER_CONC_01_3, L_DELIVER_CONC_01_3)
        0x04, 0x81, 0x21, 0x43, 0xF5,
        0x40, 0x06, 0x81, 0x89, 0x67, 0x45,
        0x40, 0x00, 0x89, 0x10, 0x70, 0x21, 0x43, 0x65, 0x40,
        0x16,
      0x05, 0x00, 0x03, 0x00, 0x03, 0x03,
        0x82, 0xC2, 0x21, 0xB1, 0x68, 0x3C, 0x22, 0x93, 0xCA, 0x25, 0xB3, 0xE9, 0x9C, 0x01
ENDARRAY


/* SA_12345, OA_987654, PID_SM_TYPE_0, DCS_DEF_ALPH, VP_A9801071234564 (TP-SCTS),
  segment size: 15 chars, Ref-Num: 0x01, 2 segments
  "HALLOHALLOHALL1" */
BEGIN_PSTRUCT ("sms_sdu", DELIVER_CONC_02_1)
        SET_COMP ("l_buf",          L_DELIVER_CONC_02_1*8)
        SET_COMP ("o_buf",          0x00)
        SET_COMP ("buf", D_DELIVER_CONC_02_1)
ENDSTRUCT
BEGINARRAY_PART(D_DELIVER_CONC_02_1, L_DELIVER_CONC_02_1)
        0x04, 0x81, 0x21, 0x43, 0xF5,
        0x40, 0x06, 0x81, 0x89, 0x67, 0x45,
        0x40, 0x00, 0x89, 0x10, 0x70, 0x21, 0x43, 0x65, 0x40,
        0x16,
        0x05, 0x00, 0x03, 0x01, 0x02, 0x01,
        0x90, 0x41, 0x26, 0xF3, 0x89, 0x0C, 0x32, 0x99, 0x4F, 0x64, 0x90, 0xC9, 0x8C, 0x01
ENDARRAY

/* "HALLOHALLOHALL2" */
BEGIN_PSTRUCT ("sms_sdu", DELIVER_CONC_02_2)
        SET_COMP ("l_buf",          L_DELIVER_CONC_02_2*8)
        SET_COMP ("o_buf",          0x00)
        SET_COMP ("buf", D_DELIVER_CONC_02_2)
ENDSTRUCT
BEGINARRAY_PART(D_DELIVER_CONC_02_2, L_DELIVER_CONC_02_2)
        0x04, 0x81, 0x21, 0x43, 0xF5,
        0x40, 0x06, 0x81, 0x89, 0x67, 0x45,
        0x40, 0x00, 0x89, 0x10, 0x70, 0x21, 0x43, 0x65, 0x40,
        0x16,
        0x05, 0x00, 0x03, 0x01, 0x02, 0x02,
        0x90, 0x41, 0x26, 0xF3, 0x89, 0x0C, 0x32, 0x99, 0x4F, 0x64, 0x90, 0xC9, 0x94, 0x01
ENDARRAY
```

```
/* SA_12345, OA_987654, PID_SM_TYPE_0, DCS_DEF_ALPH, VP_A9801071234564 (TP-SCTS),
   segment size: 15 chars, Ref-Num: 0xD2, 2 segments, first segment has maximum length
   */
BEGIN_PSTRUCT ("sms_sdu", DELIVER_CONC_03_1)
        SET_COMP ("l_buf",          L_DELIVER_CONC_03_1*8)
        SET_COMP ("o_buf",          0x00)
        SET_COMP ("buf", D_DELIVER_CONC_03_1)
ENDSTRUCT
BEGINARRAY_PART(D_DELIVER_CONC_03_1, L_DELIVER_CONC_03_1)
        0x07 , 0x91 , 0x94 , 0x71 , 0x01 , 0x67 , 0x05 , 0x00 , 0x40 , 0x0D , 0x91 , 0x94 ,
        0x51 , 0x11 , 0x22 , 0x11 , 0x86 , 0xF2 , 0x00 , 0x00 , 0x20 , 0x20 , 0x11 , 0x81 ,
        0x40 , 0x40 , 0x00 , 0xA0 , 0x05 , 0x00 , 0x03 , 0xD2 , 0x02 , 0x01 , 0x82 , 0xC4 ,
        0xA3 , 0xB2 , 0x09 , 0xA5, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF, 0xFF,
        0xFF, 0xFF , 0xFF, 0xFF , 0xFF, 0xFF , 0xFF, 0xFF , 0xFF, 0xFF , 0xFF, 0xFF,
        0xFF, 0xFF , 0xFF, 0xFF , 0xFF, 0xFF , 0xFF, 0xFF , 0xFF, 0xFF , 0xFF, 0xFF,
        0xFF, 0xFF , 0xFF, 0xFF , 0xFF, 0xFF , 0xFF, 0xFF , 0xFF, 0xFF , 0xFF, 0xFF,
        0xFF, 0xFF , 0xFF, 0xFF , 0xFF, 0xFF , 0xFF, 0xFF , 0xFF, 0xFF , 0xFF, 0xFF,
        0xFF, 0xFF , 0xFF, 0xFF , 0xFF, 0xFF , 0xFF, 0xFF , 0xFF, 0xFF , 0xFF, 0xFF,
        0xFF, 0xFF , 0xFF, 0xFF , 0xFF, 0xFF , 0xFF, 0xFF , 0xFF, 0xFF , 0xFF, 0xFF,
        0xFF, 0xFF , 0xFF, 0xFF , 0xFF, 0xFF , 0xFF, 0xFF , 0xFF, 0xFF , 0xFF, 0xFF,
        0xFF, 0xFF , 0xFF, 0xFF , 0xFF, 0xFF , 0xFF, 0xFF , 0xFF, 0xFF , 0xFF, 0xFF,
        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

/*  */
BEGIN_PSTRUCT ("sms_sdu", DELIVER_CONC_03_2)
        SET_COMP ("l_buf",          L_DELIVER_CONC_03_2*8)
        SET_COMP ("o_buf",          0x00)
        SET_COMP ("buf", D_DELIVER_CONC_03_2)
ENDSTRUCT
BEGINARRAY_PART(D_DELIVER_CONC_03_2, L_DELIVER_CONC_03_2)
        0x07 , 0x91 , 0x94 , 0x71 , 0x01 , 0x67 , 0x05 , 0x00 , 0x44 , 0x0D , 0x91 , 0x94,
        0x51 , 0x11 , 0x22 , 0x11 , 0x86 , 0xF2 , 0x00 , 0x00 , 0x20 , 0x20 , 0x11 , 0x81,
        0x40 , 0x01 , 0x00 , 0x11 , 0x05 , 0x00 , 0x03 , 0xD2 , 0x02 , 0x02 , 0xC2 , 0xEA,
        0xB0 , 0x3A , 0xAC , 0x0E, 0xFF, 0xFF, 0xFF
ENDARRAY

/* SA_12345, OA_987654, PID_SM_TYPE_0, DCS_DEF_ALPH, VP_A9801071234564 (TP-SCTS),
   segment size: 15 chars, 16-bit Ref-Num: 0x01, 2 segments
   "HALLOHALLOHALL1" */
BEGIN_PSTRUCT ("sms_sdu", DELIVER_CONC_04_1)
        SET_COMP ("l_buf",          L_DELIVER_CONC_04_1*8)
        SET_COMP ("o_buf",          0x00)
        SET_COMP ("buf", D_DELIVER_CONC_04_1)
ENDSTRUCT
BEGINARRAY_PART(D_DELIVER_CONC_04_1, L_DELIVER_CONC_04_1)
        0x04, 0x81, 0x21, 0x43, 0xF5,
        0x40, 0x06, 0x81, 0x89, 0x67, 0x45,
        0x40, 0x00, 0x89, 0x10, 0x70, 0x21, 0x43, 0x65, 0x40,
        0x17,
        0x06, 0x08, 0x03, 0x01, 0x00, 0x02, 0x01,
        0xC8, 0x20, 0x93, 0xF9, 0x44, 0x06, 0x99, 0xCC, 0x27, 0x32, 0xC8, 0x64, 0xC6
ENDARRAY

/* "HALLOHALLOHALL2" */
BEGIN_PSTRUCT ("sms_sdu", DELIVER_CONC_04_2)
        SET_COMP ("l_buf",          L_DELIVER_CONC_04_2*8)
        SET_COMP ("o_buf",        0x00)
        SET_COMP ("buf", D_DELIVER_CONC_04_2)
ENDSTRUCT
BEGINARRAY_PART(D_DELIVER_CONC_04_2, L_DELIVER_CONC_04_2)
        0x04, 0x81, 0x21, 0x43, 0xF5,
        0x40, 0x06, 0x81, 0x89, 0x67, 0x45,
        0x40, 0x00, 0x89, 0x10, 0x70, 0x21, 0x43, 0x65, 0x40,
        0x17,
        0x06, 0x08, 0x03, 0x01, 0x00, 0x02, 0x02,
        0xC8, 0x20, 0x93, 0xF9, 0x44, 0x06, 0x99, 0xCC, 0x27, 0x32, 0xC8, 0x64, 0xCA
ENDARRAY
```

/* SA_12345, PID_SM_TYPE_0, SMS_CMD_DELETE(=0x02), MSG_REF_02 (for TP_MN), DA_654321 --- delete last sent message */

```
BEGIN_PSTRUCT ("sms_sdu", COMMAND_DEL_1)
        SET_COMP ("l_buf",        L_COMMAND_DEL_1*8)
        SET_COMP ("o_buf",        0x00)
        SET_COMP ("buf", D_COMMAND_DEL_1)
ENDSTRUCT
BEGINARRAY_PART(D_COMMAND_DEL_1, L_COMMAND_DEL_1)
             0x04, 0x81, 0x21, 0x43, 0xF5,
             0x02, 0x00, 0x40, 0x02, 0x01,
             0x06, 0x81, 0x56, 0x34, 0x12,
             0x00
ENDARRAY

BEGIN_PSTRUCT ("sms_sdu", COMMAND_DEL_2)
        SET_COMP ("l_buf",        L_COMMAND_DEL_2*8)
        SET_COMP ("o_buf",        0x00)
        SET_COMP ("buf", D_COMMAND_DEL_2)
ENDSTRUCT
BEGINARRAY_PART(D_COMMAND_DEL_2, L_COMMAND_DEL_2)
             0x04, 0x81, 0x21, 0x43, 0xF5,
             0x02, 0x00, 0x40, 0x02, 0x02,
             0x06, 0x81, 0x56, 0x34, 0x12,
             0x00
ENDARRAY

BEGIN_PSTRUCT ("sms_sdu", COMMAND_DEL_3)
        SET_COMP ("l_buf",        L_COMMAND_DEL_3*8)
        SET_COMP ("o_buf",        0x00)
        SET_COMP ("buf", D_COMMAND_DEL_3)
ENDSTRUCT
BEGINARRAY_PART(D_COMMAND_DEL_3, L_COMMAND_DEL_3)
             0x04, 0x81, 0x21, 0x43, 0xF5,
             0x02, 0x00, 0x40, 0x02, 0x03,
             0x06, 0x81, 0x56, 0x34, 0x12,
             0x00
ENDARRAY
```

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

BYTE V_PLMN_PRES 1

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

3 TEST CASES

3.1 Routing (internal) (ASC001 - ASC019)

3.1.1 ASC000: Setup the Routing and the PCO view for the ASC test, and set ACI to transparent mode

Description:

Routings for the ASC 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 PL TAP)
COMMAND (PL REDIRECT MMI NULL)
      |                            |                            |
COMMAND (TAP REDIRECT TAP MMI)
COMMAND (MMI REDIRECT MMI TAP)
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value

History: 11.12.98 SAB Initial

3.1.2 ASC001: Setup SMS Configuration with Power on

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. In SMS_STATE_INITIALISING state two MNSMS_MESSAE_IND are two report the mem usage to the ACI.

Preamble:

ASC000

```
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)   |                           |     MNSMS_MESSAGE_IND      |
      |                           *<===========================*
(10)  |                           |     MNSMS_MESSAGE_IND      |
      |                           *<===========================*
(11)  |                           |      MNSMS_REPORT_IND      |
      |                           *<===========================*
(12)  |        ACI_CMD_REQ        |                            |
      |     (cmd: +COPS=0,0)      |                            |
      *==========================>*                            |
(13)  |                           |     MMR_PLMN_MODE_REQ      |
      |                           *===========================>*
(14)  |                           |        MMR_REG_REQ         |
      |                           *===========================>*
(15)  |                           |        MMR_REG_CNF         |
      |                           *<===========================*
(16)  |                           |     MMR_PLMN_MODE_REQ      |
      |                           *===========================>*
(17)  |        ACI_CMD_IND        |                            |
      |         (msg: OK)         |                            |
      *<==========================*                            |
      |                           |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CFUN_1
		cmd_seq	C_CFUN_1
(2)	SIM_ACTIVATE_REQ		
		proc	SIM_INITIALISATION
		mmi_pro_file	NOT_USED
		stk_pro_file	NOT_USED
(3)	SIM_ACTIVATE_CNF		
		cause	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
		cause	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		
		state	SMS_STATE_INITIALISING
(9)	MNSMS_MESSAGE_IND	mem_type	MEM_ME
		rec_num	SMS_RECORD_NOT_EXIST
		rec_max	REC_NUM_MAX
		status	SMS_RECORD_FREE
		sms_sdu	NOT_USED

(10) MNSMS_MESSAGE_IND	mem_type	MEM_SM
	rec_num	SMS_RECORD_NOT_EXIST
	rec_max	REC_NUM_MAX
	status	SMS_RECORD_FREE
	sms_sdu	NOT_USED
(11) MNSMS_REPORT_IND		
	state	SMS_STATE_READY
(12) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_COPS_REG
	cmd_seq	C_PLUS_COPS_REG
(13) MMR_PLMN_MODE_REQ		
	mode	MODE_AUTO
(14) MMR_REG_REQ		
	service_mode	SERVICE_MODE_FULL
(15) MMR_REG_CNF		
	plmn	PLMN_262_01
	lac	NUM_0000
	cid	NUM_0000
(16) MMR_PLMN_MODE_REQ		
	mode	MODE_AUTO
(17) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History:	15.02.2000	FK	Initial
	03.04.2000	FK	MMI_CBCH_REQ: inital value for <modus> changed
	13.08.2001	TLU	MNSMS_REPORT_IND changed
	22.04.2002	TLU	+COPS added

3.2 SMS/CBM Initialization

3.2.1 ASC020: Setting the Error Response

Description:

The error response is set to numeric.

Preamble:

ASC000

```
     APL                                     ACI                                     PS
      |                                       |                                       |
(1)   |              ACI_CMD_REQ              |                                       |
      |            (cmd: CMEE=1)              |                                       |
      *=====================================>*                                       |
(2)   |              ACI_CMD_IND              |                                       |
      |               (msg: OK)               |                                       |
      *<=====================================*                                       |
(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_CMEE_1
		cmd_seq	C_CMEE_1
(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_SET_TXT
		cmd_seq	C_CMGF_SET_TXT
(4)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK
(5)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGF_QUERY
		cmd_seq	C_CMGF_QUERY
(6)	ACI_CMD_IND		
		cmd_len	LM_CMGF_QUERY_TXT
		cmd_seq	M_CMGF_QUERY_TXT
(7)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History:	15.02.2000	FK	Initial
	14.03.2001	FK	Setting of Text Mode added

3.2.2 ASC021: Try to Set Several SMS Parameters prior to Power on

Description:

Several SMS parameters are tried to be set and queried, but error 310 is returned because the SIM is not recognized.

Preamble:

ASC020

```
    APL                          ACI                          PS
      |                            |                            |
(1)   |       ACI_CMD_REQ          |                            |
      |       (cmd: CSCA)          |                            |
      *===========================>*                            |
(2)   |       ACI_CMD_IND          |                            |
      |     (msg: ERROR 310)       |                            |
      *<===========================*                            |
(3)   |       ACI_CMD_REQ          |                            |
      |       (cmd: CSMP)          |                            |
      *===========================>*                            |
(4)   |       ACI_CMD_IND          |                            |
      |     (msg: ERROR 310)       |                            |
      *<===========================*                            |
(5)   |       ACI_CMD_REQ          |                            |
      |       (cmd: CCSB)          |                            |
      *===========================>*                            |
(6)   |       ACI_CMD_IND          |                            |
      |     (msg: ERROR 310)       |                            |
      *<===========================*                            |
(7)   |       ACI_CMD_REQ          |                            |
      |       (cmd: CSCA?)         |                            |
      *===========================>*                            |
(8)   |       ACI_CMD_IND          |                            |
      |     (msg: ERROR 310)       |                            |
      *<===========================*                            |
(9)   |       ACI_CMD_REQ          |                            |
      |       (cmd: CSMP?)         |                            |
      *===========================>*                            |
(10)  |       ACI_CMD_IND          |                            |
      |     (msg: ERROR 310)       |                            |
      *<===========================*                            |
(11)  |       ACI_CMD_REQ          |                            |
      |      (query: CSCB)         |                            |
      *===========================>*                            |
(12)  |       ACI_CMD_IND          |                            |
      |     (msg: ERROR 310)       |                            |
      *<===========================*                            |
(13)  |       ACI_CMD_REQ          |                            |
      |       (cmd: CMGL)          |                            |
      *===========================>*                            |
(14)  |       ACI_CMD_IND          |                            |
      |     (msg: ERROR 310)       |                            |
      *<===========================*                            |
      |                            |                            |
```

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_CMS_ERROR_310
	cmd_seq	M_CMS_ERROR_310
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSMP_ALL_CORRECT
	cmd_seq	C_CSMP_ALL_CORRECT
(4) ACI_CMD_IND		
	cmd_len	LM_CMS_ERROR_310
	cmd_seq	M_CMS_ERROR_310
(5) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCB_ACCEPT_MIDS_ON
	cmd_seq	C_CSCB_ACCEPT_MIDS_ON
(6) ACI_CMD_IND		
	cmd_len	LM_CMS_ERROR_310
	cmd_seq	M_CMS_ERROR_310
(7) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCA_QUERY
	cmd_seq	C_CSCA_QUERY
(8) ACI_CMD_IND		
	cmd_len	LM_CMS_ERROR_310
	cmd_seq	M_CMS_ERROR_310
(9) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSMP_QUERY
	cmd_seq	C_CSMP_QUERY
(10) ACI_CMD_IND		
	cmd_len	LM_CMS_ERROR_310
	cmd_seq	M_CMS_ERROR_310
(11) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCB_QUERY
	cmd_seq	C_CSCB_QUERY
(12) ACI_CMD_IND		
	cmd_len	LM_CMS_ERROR_310
	cmd_seq	M_CMS_ERROR_310
(13) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMGL_ALL
	cmd_seq	C_CMGL_ALL

(14) ACI_CMD_IND		
	cmd_len	LM_CMS_ERROR_310
	cmd_seq	M_CMS_ERROR_310

History: 16.02.2000 FK Initial

3.2.3 ASC022: Power on Device, SIM Service Table without SMS/CB Parameters, Case 1

Description:

With the preamble all SMS related commands were rejected. Now the ME is activated with EF(SMSP) and EF(CBMIR) available. The initialization of SMS is not finshed.

Preamble:

ASC021

```
    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)
     |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CFUN_1
	cmd_seq	C_CFUN_1
(2) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	NOT_USED
	stk_pro_file	NOT_USED
(3) SIM_ACTIVATE_CNF		
	cause	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
cause	SIM_NO_ERROR
length	NUM_12
trans_data	A_ECC_FIELD

(7) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History:	16.02.2000	FK	Initial

3.2.4 ASC023: Try to Set Several SMS Parameters prior to SMS Initialization

Description:

Several SMS parameters are tried to be set and queried, but error 314 is returned because the SMS Entity is not initialized.

Preamble:

ASC022

```
    APL                           ACI                            PS
     |                             |                              |
(1)  |         ACI_CMD_REQ         |                              |
     |         (cmd: CSCA)         |                              |
     *===========================> *                              |
(2)  |         ACI_CMD_IND         |                              |
     |       (msg: ERROR 314)      |                              |
     *<=========================== *                              |
(3)  |         ACI_CMD_REQ         |                              |
     |         (cmd: CSMP)         |                              |
     *===========================> *                              |
(4)  |         ACI_CMD_IND         |                              |
     |       (msg: ERROR 314)      |                              |
     *<=========================== *                              |
(5)  |         ACI_CMD_REQ         |                              |
     |         (cmd: CCSB)         |                              |
     *===========================> *                              |
(6)  |         ACI_CMD_IND         |                              |
     |       (msg: ERROR 314)      |                              |
     *<=========================== *                              |
(7)   |         ACI_CMD_REQ          |                             |
      |        (cmd: CSCA?)          |                             |
      *===========================> *                             |
(8)   |         ACI_CMD_IND          |                             |
      |      (msg: ERROR 314)        |                             |
      *<=========================== *                             |
(9)   |         ACI_CMD_REQ          |                             |
      |        (cmd: CSMP?)          |                             |
      *===========================> *                             |
(10)  |         ACI_CMD_IND          |                             |
      |      (msg: ERROR 314)        |                             |
      *<=========================== *                             |
(11)  |         ACI_CMD_REQ          |                             |
      |       (query: CSCB)          |                             |
      *===========================> *                             |
(12)  |         ACI_CMD_IND          |                             |
      |      (msg: ERROR 314)        |                             |
      *<=========================== *                             |
(13)  |         ACI_CMD_REQ          |                             |
      |        (cmd: CMGL)           |                             |
      *===========================> *                             |
(14)  |         ACI_CMD_IND          |                             |
      |      (msg: ERROR 314)        |                             |
      *<=========================== *                             |
      |                              |                             |
```

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_CMS_ERROR_314
	cmd_seq	M_CMS_ERROR_314
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSMP_ALL_CORRECT
	cmd_seq	C_CSMP_ALL_CORRECT
(4) ACI_CMD_IND		
	cmd_len	LM_CMS_ERROR_314
	cmd_seq	M_CMS_ERROR_314
(5) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCB_ACCEPT_MIDS_ON
	cmd_seq	C_CSCB_ACCEPT_MIDS_ON
(6) ACI_CMD_IND		
	cmd_len	LM_CMS_ERROR_314
	cmd_seq	M_CMS_ERROR_314
(7) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCA_QUERY
	cmd_seq	C_CSCA_QUERY

(8) ACI_CMD_IND

cmd_len	LM_CMS_ERROR_314
cmd_seq	M_CMS_ERROR_314

(9) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_CSMP_QUERY
cmd_seq	C_CSMP_QUERY

(10) ACI_CMD_IND

cmd_len	LM_CMS_ERROR_314
cmd_seq	M_CMS_ERROR_314

(11) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_CSCB_QUERY
cmd_seq	C_CSCB_QUERY

(12) ACI_CMD_IND

cmd_len	LM_CMS_ERROR_314
cmd_seq	M_CMS_ERROR_314

(13) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_CMGL_ALL
cmd_seq	C_CMGL_ALL

(14) ACI_CMD_IND

cmd_len	LM_CMS_ERROR_314
cmd_seq	M_CMS_ERROR_314

History:	16.02.2000	FK	Initial

3.2.5 ASC024: SMS Initialization succesfully finished

Description:

ACI receives indication of a successful SMS initialization. Setting New Message Indication for CBM reception shall pass the correct parameters to the TIL Entity.

Preamble:

ASC023

```
    APL                           ACI                          PS
     |                             |                            |
(1)  |                             |      MNSMS_REPORT_IND      |
     |                             *<===========================*
(2)  |                             |        MMI_CBCH_REQ        |
     |                             *===========================>*
TIMEOUT(1000)
(1)  |         ACI_CMD_REQ         |                            |
     |         (cmd: CNMI)         |                            |
     *===========================>*                             |
(2)  |                             |    MNSMS_CONFIGURE_REQ     |
     |                             *===========================>*
(3)  |                             |        MMI_CBCH_REQ        |
     |                             *===========================>*
```

```
(4)    |         ACI_CMD_IND          |                             |
       |          (msg: OK)           |                             |
       *<===========================*                             |
TIMEOUT(1000)
       |                              |                             |
```

Parametrization:

	Primitive	Parameter	Value
(1)	MNSMS_REPORT_IND		
		state	SMS_STATE_READY
(2)	MMI_CBCH_REQ		
		msg_id	CBM_MID_DEF
		dcs_id	CBM_DCS_DEF
		modus	MMI_CBCH_STOP
(3)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CNMI_ONLY_CBM
		cmd_seq	C_CNMI_ONLY_CBM
(4)	MNSMS_CONFIGURE_REQ		
		pref_mem_3	NOT_USED
		mt	NOT_USED
		ds	NOT_USED
		mhc	NOT_USED
(5)	MMI_CBCH_REQ		
		msg_id	CBM_MID_DEF
		dcs_id	CBM_DCS_DEF
		modus	CBCH_ACCEPT
(6)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History:	16.02.2000	FK	Initial
	03.04.2000	FK	MMI_CBCH_REQ: inital value for <modus> changed, +CNMI added
	13.08.2001	TLU	MNSMS_REPORT_IND changed

3.2.6 ASC025: Query SMS/CB Parameters after Successfully Power on Device, Case 1

Description:

After successfully power on device query SMS/CB parameters to confirm, that commands prior to activation did not affect the device.

Preamble:

ASC024

```
    APL                            ACI                           PS
       |                              |                             |
       *<===========================*                             |
(1)    |         ACI_CMD_REQ          |                             |
       |        (query: CSCB)         |                             |
       *===========================>*                             |
(2)    |         ACI_CMD_IND          |                             |
       |         (msg: CSCB)          |                             |
       *<===========================*                             |
(3)  |        ACI_CMD_IND         |                           |
       |          (msg: OK)         |                           |
       *<===========================*                           |
(4)  |        ACI_CMD_REQ         |                           |
       |       (query: CSMP)        |                           |
       *===========================>*                           |
(5)  |        ACI_CMD_IND         |                           |
       |         (msg: CSMP)        |                           |
       *<===========================*                           |
(6)  |        ACI_CMD_IND         |                           |
       |          (msg: OK)         |                           |
       *<===========================*                           |
(7)  |        ACI_CMD_REQ         |                           |
       |       (query: CSCA)        |                           |
       *===========================>*                           |
(8)  |        ACI_CMD_IND         |                           |
       |         (msg: CSCA)        |                           |
       *<===========================*                           |
(9)  |        ACI_CMD_IND         |                           |
       |          (msg: OK)         |                           |
       *<===========================*                           |
       |                            |                           |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCB_QUERY
	cmd_seq	C_CSCB_QUERY
(2) ACI_CMD_IND		
	cmd_len	LM_CSCB_QUERY_DEF
	cmd_seq	M_CSCB_QUERY_DEF
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(4) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSMP_QUERY
	cmd_seq	C_CSMP_QUERY
(5) ACI_CMD_IND		
	cmd_len	LM_CSMP_QUERY_DEF
	cmd_seq	M_CSMP_QUERY_DEF
(6) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(7) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCA_QUERY
	cmd_seq	C_CSCA_QUERY
(8) ACI_CMD_IND		
	cmd_len	LM_CSCA_QUERY_DEF
	cmd_seq	M_CSCA_QUERY_DEF

(9) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 16.02.2000 FK Initial

3.2.7 ASC032: Power on Device, SIM Service Table with EF(SMSP) and EF(CBMIR), Case 7

Description:

With the preamble all SMS related commands were rejected. Now the ME is activated with EF(SMSP) and EF(CBMIR) available.

Preamble:

ASC021

```
    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)
     |                             |                             |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CFUN_1
	cmd_seq	C_CFUN_1
(2) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	NOT_USED
	stk_pro_file	NOT_USED
(3) SIM_ACTIVATE_CNF		
	cause	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_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
cause	SIM_NO_ERROR
length	NUM_12
trans_data	A_ECC_FIELD

(7) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History: 16.02.2000 FK Initial

3.2.8 ASC033: Try to Set Several SMS Parameters prior to SMS Initialization

Description:

Several SMS parameters are tried to be set and queried, but error 314 is returned because the SMS Entity is not initialized.

Preamble:

ASC032

```
    APL                           ACI                           PS
     |                             |                             |
(1)  |         ACI_CMD_REQ         |                             |
     |         (cmd: CSCA)         |                             |
     *===========================> *                             |
(2)  |         ACI_CMD_IND         |                             |
     |       (msg: ERROR 314)      |                             |
     *<=========================== *                             |
(3)  |         ACI_CMD_REQ         |                             |
     |         (cmd: CSMP)         |                             |
     *===========================> *                             |
(4)  |         ACI_CMD_IND         |                             |
     |       (msg: ERROR 314)      |                             |
     *<=========================== *                             |
(5)  |         ACI_CMD_REQ         |                             |
     |         (cmd: CCSB)         |                             |
     *===========================> *                             |
(6)  |         ACI_CMD_IND         |                             |
     |       (msg: ERROR 314)      |                             |
     *<=========================== *                             |
(7)   |         ACI_CMD_REQ         |                              |
      |         (cmd: CSCA?)        |                              |
      *===========================>*                              |
(8)   |         ACI_CMD_IND         |                              |
      |      (msg: ERROR 314)       |                              |
      *<===========================*                              |
(9)   |         ACI_CMD_REQ         |                              |
      |         (cmd: CSMP?)        |                              |
      *===========================>*                              |
(10)  |         ACI_CMD_IND         |                              |
      |      (msg: ERROR 314)       |                              |
      *<===========================*                              |
(11)  |         ACI_CMD_REQ         |                              |
      |        (query: CSCB)        |                              |
      *===========================>*                              |
(12)  |         ACI_CMD_IND         |                              |
      |      (msg: ERROR 314)       |                              |
      *<===========================*                              |
(13)  |         ACI_CMD_REQ         |                              |
      |         (cmd: CMGL)         |                              |
      *===========================>*                              |
(14)  |         ACI_CMD_IND         |                              |
      |      (msg: ERROR 314)       |                              |
      *<===========================*                              |
      |                             |                              |
```

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_CMS_ERROR_314
	cmd_seq	M_CMS_ERROR_314
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSMP_ALL_CORRECT
	cmd_seq	C_CSMP_ALL_CORRECT
(4) ACI_CMD_IND		
	cmd_len	LM_CMS_ERROR_314
	cmd_seq	M_CMS_ERROR_314
(5) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCB_ACCEPT_MIDS_ON
	cmd_seq	C_CSCB_ACCEPT_MIDS_ON
(6) ACI_CMD_IND		
	cmd_len	LM_CMS_ERROR_314
	cmd_seq	M_CMS_ERROR_314
(7) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCA_QUERY
	cmd_seq	C_CSCA_QUERY

(8) ACI_CMD_IND

cmd_len	LM_CMS_ERROR_314
cmd_seq	M_CMS_ERROR_314

(9) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_CSMP_QUERY
cmd_seq	C_CSMP_QUERY

(10) ACI_CMD_IND

cmd_len	LM_CMS_ERROR_314
cmd_seq	M_CMS_ERROR_314

(11) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_CSCB_QUERY
cmd_seq	C_CSCB_QUERY

(12) ACI_CMD_IND

cmd_len	LM_CMS_ERROR_314
cmd_seq	M_CMS_ERROR_314

(13) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_CMGL_ALL
cmd_seq	C_CMGL_ALL

(14) ACI_CMD_IND

cmd_len	LM_CMS_ERROR_314
cmd_seq	M_CMS_ERROR_314

History:	16.02.2000	FK	Initial

3.2.9 ASC034: SMS Initialization succesfully finished

Description:

ACI receives indication of a successful SMS initialization..

Preamble:

ASC033

```
    APL                          ACI                            PS
     |                            |                              |
(1)  |                            |       MNSMS_REPORT_IND       |
     |                            *<============================ *
(2)  |                            |     SIM_READ_RECORD_REQ      |
     |                            *============================> *
(3)  |                            |     SIM_READ_RECORD_CNF      |
     |                            *<============================ *
(4)  |                            |         SIM_READ_REQ         |
     |                            *============================> *
(5)  |                            |         SIM_READ_CNF         |
     |                            *<============================ *
(6)  |                            |         MMI_CBCH_REQ         |
     |                            *============================> *
TIMEOUT(1000)
(1)  |        ACI_CMD_REQ         |                              |
     |        (cmd: CNMI)         |                              |
     *==========================> *                              |
(2)   |                            |    MNSMS_CONFIGURE_REQ      |
      |                            *============================>*
(3)   |                            |        MMI_CBCH_REQ         |
      |                            *============================>*
(4)   |        ACI_CMD_IND         |                             |
      |         (msg: OK)          |                             |
      *<===========================*                             |
TIMEOUT(1000)
      |                            |                             |
```

Parametrization:

Primitive	Parameter	Value
(1) MNSMS_REPORT_IND		
	state	SMS_STATE_READY
(2) SIM_READ_RECORD_REQ		
	source	SRC_MMI
	datafield	SIM_SMSP
	record	NUM_1
	length	NOT_PRESENT_8BIT
(3) SIM_READ_RECORD_CNF		
	datafield	SIM_SMSP
	cause	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_CBMIR
	length	NOT_PRESENT_8BIT
	max_length	NUM_255
(5) SIM_READ_CNF		
	datafield	SIM_CBMIR
	cause	SIM_NO_ERROR
	length	L_CBMIR_5
	trans_data	CBMIR_5E_5R
(6) MMI_CBCH_REQ		
	msg_id	CBM_MID_DEF
	dcs_id	CBM_DCS_DEF
	modus	MMI_CBCH_STOP
(7) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CNMI_ONLY_CBM
	cmd_seq	C_CNMI_ONLY_CBM
(8) MNSMS_CONFIGURE_REQ		
	pref_mem_3	NOT_USED
	mt	NOT_USED
	ds	NOT_USED
	mhc	NOT_USED

(9) MMI_CBCH_REQ

msg_id	CBM_MID_5R
dcs_id	CBM_DCS_DEF
modus	CBCH_ACCEPT

(10) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History:			
	16.02.2000	FK	Initial
	03.04.2000	FK	MMI_CBCH_REQ: inital value for <modus> changed, +CNMI added
	13.08.2001	TLU	MNSMS_REPORT_IND changed

3.2.10 ASC035: Query SMS/CB Parameters after Successfully Power on Device, Case 7

Description:

After successfully power on device query SMS/CB parameters to confirm, that coomands prior to activatioen did not affect the device.

Preamble:

ASC034

```
    APL                          ACI                          PS
     |                            |                            |
(1)  |        ACI_CMD_REQ         |                            |
     |       (query: CSCB)        |                            |
     *===========================>*                            |
(2)  |        ACI_CMD_IND         |                            |
     |        (msg: CSCB)         |                            |
     *<===========================*                            |
(3)  |        ACI_CMD_IND         |                            |
     |         (msg: OK)          |                            |
     *<===========================*                            |
(4)  |        ACI_CMD_REQ         |                            |
     |       (query: CSMP)        |                            |
     *===========================>*                            |
(5)  |        ACI_CMD_IND         |                            |
     |        (msg: CSMP)         |                            |
     *<===========================*                            |
(6)  |        ACI_CMD_IND         |                            |
     |         (msg: OK)          |                            |
     *<===========================*                            |
(7)  |        ACI_CMD_REQ         |                            |
     |       (query: CSCA)        |                            |
     *===========================>*                            |
(8)  |        ACI_CMD_IND         |                            |
     |        (msg: CSCA)         |                            |
     *<===========================*                            |
(9)  |        ACI_CMD_IND         |                            |
     |         (msg: OK)          |                            |
     *<===========================*                            |
     |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CSCB_QUERY
		cmd_seq	C_CSCB_QUERY
(2)	ACI_CMD_IND		
		cmd_len	LM_CSCB_QUERY_5R
		cmd_seq	M_CSCB_QUERY_5R
(3)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK
(4)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CSMP_QUERY
		cmd_seq	C_CSMP_QUERY
(5)	ACI_CMD_IND		
		cmd_len	LM_CSMP_QUERY_SMSP_CMPL
		cmd_seq	M_CSMP_QUERY_SMSP_CMPL
(6)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK
(7)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CSCA_QUERY
		cmd_seq	C_CSCA_QUERY
(8)	ACI_CMD_IND		
		cmd_len	LM_CSCA_QUERY1_SMSP
		cmd_seq	M_CSCA_QUERY1_SMSP
(9)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History: 16.02.2000 FK Initial

3.3 SMS/CBM Configuration (ASC100 – ASC199)

3.3.1 ASC100: 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:

ASC000

```
    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        |
      |                            *<===========================*
(5)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<===========================*                            |
TIMEOUT(1000)
(6)   |                            |      MNSMS_REPORT_IND      |
      |                            *<===========================*
(7)   |                            |        MMI_CBCH_REQ        |
      |                            *===========================>*
TIMEOUT(1000)
(6)   |        ACI_CMD_REQ         |                            |
      |        (test: CSCB)        |                            |
      *===========================>*                            |
(7)   |        ACI_CMD_IND         |                            |
      |        (msg: CSCB)         |                            |
      *<===========================*                            |
(8)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<===========================*                            |
(9)   |        ACI_CMD_REQ         |                            |
      |       (query: CSCB)        |                            |
      *===========================>*                            |
(10)  |        ACI_CMD_IND         |                            |
      |        (msg: CSCB)         |                            |
      *<===========================*                            |
(11)  |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<===========================*                            |
(9)   |        ACI_CMD_REQ         |                            |
      |       (query: CSMP)        |                            |
      *===========================>*                            |
(10)  |        ACI_CMD_IND         |                            |
      |        (msg: CSMP)         |                            |
      *<===========================*                            |
(11)  |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<===========================*                            |
(9)   |        ACI_CMD_REQ         |                            |
      |       (query: CSCA)        |                            |
      *===========================>*                            |
(10)  |        ACI_CMD_IND         |                            |
      |        (msg: CSCA)         |                            |
      *<===========================*                            |
(11)  |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<===========================*                            |
(9)   |        ACI_CMD_REQ         |                            |
      |        (test: CSAS)        |                            |
      *===========================>*                            |
(10)  |         ACI_CMD_IND         |                            |
      |         (msg: CSAS)         |                            |
      *<===========================*                            |
(11)  |         ACI_CMD_IND         |                            |
      |          (msg: OK)          |                            |
      *<===========================*                            |
      |                             |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CFUN_1
		cmd_seq	C_CFUN_1
(2)	SIM_ACTIVATE_REQ		
		proc	SIM_INITIALISATION
		mmi_pro_file	NOT_USED
		stk_pro_file	NOT_USED
(3)	SIM_ACTIVATE_CNF		
		cause	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
		cause	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		
		state	SMS_STATE_READY

(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_TEST
	cmd_seq	C_CSCB_TEST
(11) ACI_CMD_IND		
	cmd_len	LM_CSCB_TEST_DEF
	cmd_seq	M_CSCB_TEST_DEF
(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_QUERY
	cmd_seq	C_CSCB_QUERY
(14) ACI_CMD_IND		
	cmd_len	LM_CSCB_QUERY_DEF
	cmd_seq	M_CSCB_QUERY_DEF
(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
	13.08.2001	TLU	MNSMS_REPORT_IND changed

3.3.2 ASC101: 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:

ASC000

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       |
     |                            *<===========================  *
(5)  |                            |        SIM_READ_REQ          |
     |                            *==========================>   *
(6)  |                            |        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)
(6)  |        ACI_CMD_REQ         |                              |
     |        (test: CSCB)        |                              |
     *==========================> *                              |
(7)  |        ACI_CMD_IND         |                              |
     |        (msg: CSCB)         |                              |
     *<========================== *                              |
(8)  |        ACI_CMD_IND         |                              |
     |         (msg: OK)          |                              |
     *<========================== *                              |
(9)   |        ACI_CMD_REQ         |                              |
      |       (query: CSCB)        |                              |
      *===========================>*                              |
(10)  |        ACI_CMD_IND         |                              |
      |        (msg: CSCB)         |                              |
      *<===========================*                              |
(11)  |        ACI_CMD_IND         |                              |
      |         (msg: OK)          |                              |
      *<===========================*                              |
(9)   |        ACI_CMD_REQ         |                              |
      |       (query: CSMP)        |                              |
      *===========================>*                              |
(10)  |        ACI_CMD_IND         |                              |
      |        (msg: CSMP)         |                              |
      *<===========================*                              |
(11)  |        ACI_CMD_IND         |                              |
      |         (msg: OK)          |                              |
      *<===========================*                              |
(9)   |        ACI_CMD_REQ         |                              |
      |       (query: CSCA)        |                              |
      *===========================>*                              |
(10)  |        ACI_CMD_IND         |                              |
      |        (msg: CSCA)         |                              |
      *<===========================*                              |
(11)  |        ACI_CMD_IND         |                              |
      |         (msg: OK)          |                              |
      *<===========================*                              |
(9)   |        ACI_CMD_REQ         |                              |
      |       (test: CSAS)         |                              |
      *===========================>*                              |
(10)  |        ACI_CMD_IND         |                              |
      |        (msg: CSAS)         |                              |
      *<===========================*                              |
(11)  |        ACI_CMD_IND         |                              |
      |         (msg: OK)          |                              |
      *<===========================*                              |
      |                            |                              |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CFUN_1
	cmd_seq	C_CFUN_1
(2) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	NOT_USED
	stk_pro_file	NOT_USED
(3) SIM_ACTIVATE_CNF		
	cause	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
cause	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

state	SMS_STATE_READY

(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
	cause	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_TEST
	cmd_seq	C_CSCB_TEST
(13) ACI_CMD_IND		
	cmd_len	LM_CSCB_TEST_DEF
	cmd_seq	M_CSCB_TEST_DEF
(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_QUERY
	cmd_seq	C_CSCB_QUERY
(16) ACI_CMD_IND		
	cmd_len	LM_CSCB_QUERY_DEF
	cmd_seq	M_CSCB_QUERY_DEF
(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
	13.08.2001	TLU	MNSMS_REPORT_IND changed

3.3.3 ASC102: 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:

ASC000

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)   |                            |       SIM_READ_REQ         |
      |                            *===========================>*
TIMEOUT(1000)
(6)   |                            |       SIM_READ_CNF         |
      |                            *<===========================*
(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)
(6)   |        ACI_CMD_REQ         |                            |
      |        (test: CSCB)        |                            |
      *===========================>*                            |
(7)   |        ACI_CMD_IND         |                            |
      |        (msg: CSCB)         |                            |
      *<===========================*                            |
(8)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<===========================*                            |
(9)   |        ACI_CMD_REQ         |                            |
      |       (query: CSCB)        |                            |
      *===========================>*                            |
(10)  |        ACI_CMD_IND         |                            |
      |        (msg: CSCB)         |                            |
      *<===========================*                            |
(11)  |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<===========================*                            |
(1)   |        ACI_CMD_REQ         |                            |
      |        (cmd: CNMI)         |                            |
      *===========================>*                            |
(2)   |                            |    MNSMS_CONFIGURE_REQ     |
      |                            *===========================>*
(3)   |                            |       MMI_CBCH_REQ         |
      |                            *===========================>*
(4)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<===========================*                            |
(9)   |        ACI_CMD_REQ         |                            |
      |       (query: CSMP)        |                            |
      *===========================>*                            |
(10)  |        ACI_CMD_IND         |                            |
      |        (msg: CSMP)         |                            |
      *<===========================*                            |
(11)  |         ACI_CMD_IND          |                            |
      |          (msg: OK)           |                            |
      *<=========================*                            |
(9)   |         ACI_CMD_REQ          |                            |
      |        (query: CSCA)         |                            |
      *=========================>*                            |
(10)  |         ACI_CMD_IND          |                            |
      |         (msg: CSCA)          |                            |
      *<=========================*                            |
(11)  |         ACI_CMD_IND          |                            |
      |          (msg: OK)           |                            |
      *<=========================*                            |
(9)   |         ACI_CMD_REQ          |                            |
      |        (test: CSAS)          |                            |
      *=========================>*                            |
(10)  |         ACI_CMD_IND          |                            |
      |         (msg: CSAS)          |                            |
      *<=========================*                            |
(11)  |         ACI_CMD_IND          |                            |
      |          (msg: OK)           |                            |
      *<=========================*                            |
      |                              |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CFUN_1
	cmd_seq	C_CFUN_1
(2) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	NOT_USED
	stk_pro_file	NOT_USED
(3) SIM_ACTIVATE_CNF		
	cause	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) 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
cause	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

state	SMS_STATE_READY

(9) SIM_READ_REQ

source	SRC_MMI
offset	NUM_0
datafield	SIM_CBMIR
length	NOT_PRESENT_8BIT
max_length	NUM_255

(10) SIM_READ_CNF

	datafield	SIM_CBMIR
	cause	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

(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_TEST
cmd_seq	C_CSCB_TEST

(13) ACI_CMD_IND		
	cmd_len	LM_CSCB_TEST_ACC
	cmd_seq	M_CSCB_TEST_ACC
(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_QUERY
	cmd_seq	C_CSCB_QUERY
(16) ACI_CMD_IND		
<A>	cmd_len	LM_CSCB_QUERY_DEF
<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_QUERY_DEF
<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
(17) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(18) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CNMI_ONLY_CBM
	cmd_seq	C_CNMI_ONLY_CBM
(19) MNSMS_CONFIGURE_REQ		
	pref_mem_3	NOT_USED
	mt	NOT_USED
	ds	NOT_USED
	mhc	NOT_USED

(20) 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
(21) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(22) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSMP_QUERY
	cmd_seq	C_CSMP_QUERY
(23) ACI_CMD_IND		
	cmd_len	LM_CSMP_QUERY_DEF
	cmd_seq	M_CSMP_QUERY_DEF
(24) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(25) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCA_QUERY
	cmd_seq	C_CSCA_QUERY
(26) ACI_CMD_IND		
	cmd_len	LM_CSCA_QUERY_DEF
	cmd_seq	M_CSCA_QUERY_DEF
(27) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(28) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSAS_TEST
	cmd_seq	C_CSAS_TEST
(29) ACI_CMD_IND		
	cmd_len	LM_CSAS_TEST_PCM
	cmd_seq	M_CSAS_TEST_PCM
(30) 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
	13.08.2001	TLU	MNSMS_REPORT_IND changed

3.3.4 ASC105: 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:

ASC000

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        |
      |                            *<===========================*
(5)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<===========================*                            |
TIMEOUT(1000)
(6)   |                            |      MNSMS_REPORT_IND      |
      |                            *<===========================*
(7)   |                            |    SIM_READ_RECORD_REQ     |
      |                            *===========================>*
(8)   |                            |    SIM_READ_RECORD_CNF     |
      |                            *<===========================*
(7)   |                            |        SIM_READ_REQ        |
      |                            *===========================>*
(8)   |                            |        SIM_READ_CNF        |
      |                            *<===========================*
(9)   |                            |        MMI_CBCH_REQ        |
      |                            *===========================>*
TIMEOUT(1000)
(6)   |        ACI_CMD_REQ         |                            |
      |        (test: CSCB)        |                            |
      *===========================>*                            |
(7)   |        ACI_CMD_IND         |                            |
      |        (msg: CSCB)         |                            |
      *<===========================*                            |
(8)   |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<===========================*                            |
(9)   |        ACI_CMD_REQ         |                            |
      |       (query: CSCB)        |                            |
      *===========================>*                            |
(10)  |        ACI_CMD_IND         |                            |
      |        (msg: CSCB)         |                            |
      *<===========================*                            |
(11)  |       ACI_CMD_IND         |                           |
      |        (msg: OK)          |                           |
      *<==========================*                           |
(1)   |       ACI_CMD_REQ         |                           |
      |       (cmd: CNMI)         |                           |
      *==========================>*                           |
(2)   |                           |   MNSMS_CONFIGURE_REQ     |
      |                           *==========================>*
(3)   |                           |       MMI_CBCH_REQ        |
      |                           *==========================>*
(4)   |       ACI_CMD_IND         |                           |
      |        (msg: OK)          |                           |
      *<==========================*                           |
(9)   |       ACI_CMD_REQ         |                           |
      |      (query: CSMP)        |                           |
      *==========================>*                           |
(10)  |       ACI_CMD_IND         |                           |
      |       (msg: CSMP)         |                           |
      *<==========================*                           |
(11)  |       ACI_CMD_IND         |                           |
      |        (msg: OK)          |                           |
      *<==========================*                           |
(9)   |       ACI_CMD_REQ         |                           |
      |      (query: CSCA)        |                           |
      *==========================>*                           |
(10)  |       ACI_CMD_IND         |                           |
      |       (msg: CSCA)         |                           |
      *<==========================*                           |
(11)  |       ACI_CMD_IND         |                           |
      |        (msg: OK)          |                           |
      *<==========================*                           |
(9)   |       ACI_CMD_REQ         |                           |
      |       (test: CSAS)        |                           |
      *==========================>*                           |
(10)  |       ACI_CMD_IND         |                           |
      |       (msg: CSAS)         |                           |
      *<==========================*                           |
(11)  |       ACI_CMD_IND         |                           |
      |        (msg: OK)          |                           |
      *<==========================*                           |
      |                           |                           |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CFUN_1
	cmd_seq	C_CFUN_1
(2) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	NOT_USED
	stk_pro_file	NOT_USED

(3) SIM_ACTIVATE_CNF

cause	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
cause	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

state	SMS_STATE_READY

(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
	cause	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
	cause	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_TEST
	cmd_seq	C_CSCB_TEST
(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_QUERY
	cmd_seq	C_CSCB_QUERY
(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
	13.08.2001	TLU	MNSMS_REPORT_IND changed

3.3.5 ASC107: 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:

ASC000

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       |
     |                          *<=========================*
(5)  |        ACI_CMD_IND       |                          |
     |         (msg: OK)        |                          |
     *<=========================*                          |
TIMEOUT(1000)
(6)  |                          |     MNSMS_REPORT_IND     |
     |                          *<=========================*
(7)  |                          |    SIM_READ_RECORD_REQ   |
     |                          *=========================>*
(8)  |                          |    SIM_READ_RECORD_CNF   |
     |                          *<=========================*
(5)  |                          |       SIM_READ_REQ       |
     |                          *=========================>*
```

```
(6)   |                           |        SIM_READ_CNF        |
      |                           *<===========================*
(7)   |                           |        SIM_READ_REQ        |
      |                           *===========================>*
(8)   |                           |        SIM_READ_CNF        |
      |                           *<===========================*
(9)   |                           |        MMI_CBCH_REQ        |
      |                           *===========================>*
TIMEOUT(1000)
(6)   |        ACI_CMD_REQ        |                            |
      |       (test: CSCB)        |                            |
      *==========================>*                            |
(7)   |        ACI_CMD_IND        |                            |
      |        (msg: CSCB)        |                            |
      *<==========================*                            |
(8)   |        ACI_CMD_IND        |                            |
      |         (msg: OK)         |                            |
      *<==========================*                            |
(9)   |        ACI_CMD_REQ        |                            |
      |      (query: CSCB)        |                            |
      *==========================>*                            |
(10)  |        ACI_CMD_IND        |                            |
      |        (msg: CSCB)        |                            |
      *<==========================*                            |
(11)  |        ACI_CMD_IND        |                            |
      |         (msg: OK)         |                            |
      *<==========================*                            |
(1)   |        ACI_CMD_REQ        |                            |
      |        (cmd: CNMI)        |                            |
      *==========================>*                            |
(2)   |                           |    MNSMS_CONFIGURE_REQ     |
      |                           *===========================>*
(3)   |                           |        MMI_CBCH_REQ        |
      |                           *===========================>*
(4)   |        ACI_CMD_IND        |                            |
      |         (msg: OK)         |                            |
      *<==========================*                            |
(9)   |        ACI_CMD_REQ        |                            |
      |      (query: CSMP)        |                            |
      *==========================>*                            |
(10)  |        ACI_CMD_IND        |                            |
      |        (msg: CSMP)        |                            |
      *<==========================*                            |
(11)  |        ACI_CMD_IND        |                            |
      |         (msg: OK)         |                            |
      *<==========================*                            |
(9)   |        ACI_CMD_REQ        |                            |
      |      (query: CSCA)        |                            |
      *==========================>*                            |
(10)  |        ACI_CMD_IND        |                            |
      |        (msg: CSCA)        |                            |
      *<==========================*                            |
(11)  |        ACI_CMD_IND        |                            |
      |         (msg: OK)         |                            |
      *<==========================*                            |
(9)   |        ACI_CMD_REQ        |                            |
      |       (test: CSAS)        |                            |
      *==========================>*                            |
(10)  |         ACI_CMD_IND          |                             |
      |         (msg: CSAS)          |                             |
      *<===========================*                             |
(11)  |         ACI_CMD_IND          |                             |
      |          (msg: OK)           |                             |
      *<===========================*                             |
      |                              |                             |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CFUN_1
		cmd_seq	C_CFUN_1
(2)	SIM_ACTIVATE_REQ		
		proc	SIM_INITIALISATION
		mmi_pro_file	NOT_USED
		stk_pro_file	NOT_USED
(3)	SIM_ACTIVATE_CNF		
		cause	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
		cause	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		
		state	SMS_STATE_READY

(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
	cause	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
	cause	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
	cause	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_TEST
		cmd_seq	C_CSCB_TEST
(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_QUERY
		cmd_seq	C_CSCB_QUERY
(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
	13.08.2001	TLU	MNSMS_REPORT_IND changed

3.3.6 ASC110: 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:

ASC107E

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

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
	cause	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
	cause	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
	cause	SIM_NO_ERROR
(15) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History:	22.12.99	FK	Initial
	26.01.2000	FK	Preamble set to ASC107E

3.3.7 ASC111: Read previously stored SMS/CBM parameters from SIM **FAILS: to be analyzed - maybe test is wrong**

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:

ASC110

```
    APL                           ACI                            PS
     |                             |                              |
(1)  |        ACI_CMD_REQ          |                              |
     |        (cmd: CRES)          |                              |
     *===========================> *                              |
(2)  |        ACI_CMD_IND          |                              |
     |         (msg: OK)           |                              |
     *<=========================== *                              |
(3)  |        ACI_CMD_REQ          |                              |
     |       (query: CSCB)         |                              |
     *===========================> *                              |
(4)  |        ACI_CMD_IND          |                              |
     |        (msg: CSCB)          |                              |
     *<=========================== *                              |
(5)  |        ACI_CMD_IND          |                              |
     |         (msg: OK)           |                              |
     *<=========================== *                              |
(6)  |        ACI_CMD_REQ          |                              |
     |       (query: CSMP)         |                              |
     *===========================> *                              |
(7)  |        ACI_CMD_IND          |                              |
     |        (msg: CSMP)          |                              |
     *<=========================== *                              |
(8)  |        ACI_CMD_IND          |                              |
     |         (msg: OK)           |                              |
     *<=========================== *                              |
(9)  |        ACI_CMD_REQ          |                              |
     |       (query: CSCA)         |                              |
     *===========================> *                              |
(10) |        ACI_CMD_IND          |                              |
     |        (msg: CSCA)          |                              |
     *<=========================== *                              |
(11) |        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)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK
(3)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CSCB_QUERY
		cmd_seq	C_CSCB_QUERY
(4)	ACI_CMD_IND		
		cmd_len	LM_CSCB_QUERY_SIM
		cmd_seq	M_CSCB_QUERY_SIM
(5)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK
(6)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CSMP_QUERY
		cmd_seq	C_CSMP_QUERY
(7)	ACI_CMD_IND		
		cmd_len	LM_CSMP_QUERY
		cmd_seq	M_CSMP_QUERY_CORRECT
(8)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK
(9)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CSCA_QUERY
		cmd_seq	C_CSCA_QUERY
(10)	ACI_CMD_IND		
		cmd_len	LM_CSCA_QUERY
		cmd_seq	M_CSCA_QUERY
(11)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History: 22.12.99 FK Initial

3.3.8 ASC112: 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:

ASC111

```
    APL                           ACI                            PS
     |                             |                              |
(1)  |         ACI_CMD_REQ         |                              |
     |         (cmd: CRES)         |                              |
     *============================>*                              |
(2)  |         ACI_CMD_IND         |                              |
     |          (msg: OK)          |                              |
     *<============================*                              |
(3)  |         ACI_CMD_REQ         |                              |
     |        (query: CSCB)        |                              |
     *============================>*                              |
(4)  |         ACI_CMD_IND         |                              |
     |         (msg: CSCB)         |                              |
     *<============================*                              |
(5)  |         ACI_CMD_IND         |                              |
     |          (msg: OK)          |                              |
     *<============================*                              |
(6)  |         ACI_CMD_REQ         |                              |
     |        (query: CSMP)        |                              |
     *============================>*                              |
(7)  |         ACI_CMD_IND         |                              |
     |         (msg: CSMP)         |                              |
     *<============================*                              |
(8)  |         ACI_CMD_IND         |                              |
     |          (msg: OK)          |                              |
     *<============================*                              |
(9)  |         ACI_CMD_REQ         |                              |
     |        (query: CSCA)        |                              |
     *============================>*                              |
(10) |         ACI_CMD_IND         |                              |
     |         (msg: CSCA)         |                              |
     *<============================*                              |
(11) |         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) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCB_QUERY
	cmd_seq	C_CSCB_QUERY
(4) ACI_CMD_IND		
	cmd_len	LM_CSCB_QUERY_SIM
	cmd_seq	M_CSCB_QUERY_SIM
(5) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(6) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSMP_QUERY
	cmd_seq	C_CSMP_QUERY
(7) ACI_CMD_IND		
	cmd_len	LM_CSMP_QUERY_SMSP_CMPL
	cmd_seq	M_CSMP_QUERY_SMSP_CMPL
(8) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(9) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCA_QUERY
	cmd_seq	C_CSCA_QUERY
(10) ACI_CMD_IND		
	cmd_len	LM_CSCA_QUERY2_SMSP
	cmd_seq	M_CSCA_QUERY2_SMSP
(11) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 22.12.99 FK Initial

3.3.9 ASC120: Set SMS/CBM Parameters FAILS: to be analyzed - maybe test is wrong

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:

ASC105C

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
	cause	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
	cause	SIM_NO_ERROR

(13) ACI_CMD_IND

	cmd_len	LM_OK
	cmd_seq	M_OK

History:	26.01.2000	FK	Initial

3.3.10 ASC121: 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:

ASC120A

```
    APL                         ACI                        PS
     |                           |                          |
(1)  |        ACI_CMD_REQ        |                          |
     |        (cmd: CRES)        |                          |
     *==========================>*                          |
(9)   |        ACI_CMD_IND          |                            |
      |         (msg: OK)           |                            |
      *<===========================*                            |
(9)   |        ACI_CMD_REQ          |                            |
      |      (query: CSCB)          |                            |
      *===========================>*                            |
(10)  |        ACI_CMD_IND          |                            |
      |        (msg: CSCB)          |                            |
      *<===========================*                            |
(11)  |        ACI_CMD_IND          |                            |
      |         (msg: OK)           |                            |
      *<===========================*                            |
(9)   |        ACI_CMD_REQ          |                            |
      |      (query: CSMP)          |                            |
      *===========================>*                            |
(10)  |        ACI_CMD_IND          |                            |
      |        (msg: CSMP)          |                            |
      *<===========================*                            |
(11)  |        ACI_CMD_IND          |                            |
      |         (msg: OK)           |                            |
      *<===========================*                            |
(9)   |        ACI_CMD_REQ          |                            |
      |      (query: CSCA)          |                            |
      *===========================>*                            |
(10)  |        ACI_CMD_IND          |                            |
      |        (msg: CSCA)          |                            |
      *<===========================*                            |
(11)  |        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) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCB_QUERY
	cmd_seq	C_CSCB_QUERY
(4) ACI_CMD_IND		
	cmd_len	LM_CSCB_QUERY_SGL4
	cmd_seq	M_CSCB_QUERY_SGL4
(5) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(6) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSMP_QUERY
	cmd_seq	C_CSMP_QUERY

(7) ACI_CMD_IND

cmd_len	LM_CSMP_QUERY
cmd_seq	M_CSMP_QUERY_CORRECT

(8) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(9) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_CSCA_QUERY
cmd_seq	C_CSCA_QUERY

(10) ACI_CMD_IND

cmd_len	LM_CSCA_QUERY
cmd_seq	M_CSCA_QUERY

(11) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History:	26.01.2000	FK	Initial

3.3.11 ASC122: 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:

ASC121

```
     APL                          ACI                            PS
      |                            |                              |
(1)   |        ACI_CMD_REQ         |                              |
      |        (cmd: CRES)         |                              |
      *==========================> *                              |
(2)   |        ACI_CMD_IND         |                              |
      |         (msg: OK)          |                              |
      *<========================== *                              |
(3)   |        ACI_CMD_REQ         |                              |
      |       (query: CSCB)        |                              |
      *==========================> *                              |
(4)   |        ACI_CMD_IND         |                              |
      |        (msg: CSCB)         |                              |
      *<========================== *                              |
(5)   |        ACI_CMD_IND         |                              |
      |         (msg: OK)          |                              |
      *<========================== *                              |
(6)   |        ACI_CMD_REQ         |                              |
      |       (query: CSMP)        |                              |
      *==========================> *                              |
(7)   |        ACI_CMD_IND         |                              |
      |        (msg: CSMP)         |                              |
      *<========================== *                              |
(8)   |        ACI_CMD_IND         |                              |
      |         (msg: OK)          |                              |
      *<========================== *                              |
(9)   |        ACI_CMD_REQ         |                                |
      |       (query: CSCA)        |                                |
      *===========================>*                                |
(10)  |        ACI_CMD_IND         |                                |
      |        (msg: CSCA)         |                                |
      *<===========================*                                |
(11)  |        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) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCB_QUERY
	cmd_seq	C_CSCB_QUERY
(4) ACI_CMD_IND		
	cmd_len	LM_CSCB_QUERY_SGL4
	cmd_seq	M_CSCB_QUERY_SGL4
(5) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(6) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSMP_QUERY
	cmd_seq	C_CSMP_QUERY
(7) ACI_CMD_IND		
	cmd_len	LM_CSMP_QUERY_SMSP_CMPL
	cmd_seq	M_CSMP_QUERY_SMSP_CMPL
(8) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(9) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCA_QUERY
	cmd_seq	C_CSCA_QUERY
(10) ACI_CMD_IND		
	cmd_len	LM_CSCA_QUERY1_SMSP
	cmd_seq	M_CSCA_QUERY1_SMSP
(11) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 26.01.2000 FK Initial

3.4 PSA MNSMS and MMI (ASC200 – ASC299) Text Mode

3.4.1 ASC220: Query Message Format

Description:

The message format is queried successfully.

Preamble:

ASC001

```
    APL                          ACI                          PS
     |                            |                            |
(1)  |         ACI_CMD_REQ        |                            |
     |        (cmd: CMGF?)        |                            |
     *===========================>*                            |
(2)  |         ACI_CMD_IND        |                            |
     |       (msg: CMGF: 0)       |                            |
     *<===========================*                            |
(3)  |         ACI_CMD_IND        |                            |
     |          (msg: OK)         |                            |
     *<===========================*                            |
(4)  |         ACI_CMD_REQ        |                            |
     |        (cmd: CMGF=1)       |                            |
     *===========================>*                            |
(5)  |         ACI_CMD_IND        |                            |
     |          (msg: OK)         |                            |
     *<===========================*                            |
(6)  |         ACI_CMD_REQ        |                            |
     |        (cmd: CMGF?)        |                            |
     *===========================>*                            |
(7)  |         ACI_CMD_IND        |                            |
     |       (msg: CMGF: 1)       |                            |
     *<===========================*                            |
(8)  |         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		
	cmd_len	LM_CMGF_QUERY_PDU
	cmd_seq	M_CMGF_QUERY_PDU
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

(4) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMGF_SET_TXT
	cmd_seq	C_CMGF_SET_TXT
(5) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(6) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMGF_QUERY
	cmd_seq	C_CMGF_QUERY
(7) ACI_CMD_IND		
	cmd_len	LM_CMGF_QUERY_TXT
	cmd_seq	M_CMGF_QUERY_TXT
(8) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History:	15.12.98	SAB	Initial
	17.03.2000	FK	Variants introduced

3.4.2 ASC240: 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:

ASC001

```
     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

3.4.3 ASC200: Select Service Center Address

Description:

The service center address will be selected successfully.

Preamble:

ASC240

```
    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

3.4.4 ASC201: Set Text Mode Parameters

Description:

The text mode parameters will be setted successfully.
A : TP-VP absolute format
B : TP-VP enhanced format (rel)
C : TP-VP enhanced format (sec)
D : TP-VP enhanced format (hrs)

Preamble:

ASC200

Variants: <A>...<D>

```
    APL                          ACI                          PS
     |                            |                            |
(1)  |         ACI_CMD_REQ        |                            |
     |         (cmd: CSMP)        |                            |
     *===========================>*                            |
(2)  |         ACI_CMD_IND        |                            |
     |          (msg: OK)         |                            |
     *<===========================*                            |
     |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_CSMP_ALL_CORRECT
<B>	cmd_len	LC_CSMP_ALL_VP_ENH_REL
<C>	cmd_len	LC_CSMP_ALL_VP_ENH_SEC
<D>	cmd_len	LC_CSMP_ALL_VP_ENH_HRS
<A>	cmd_seq	C_CSMP_ALL_CORRECT
<B>	cmd_seq	C_CSMP_ALL_VP_ENH_REL
<C>	cmd_seq	C_CSMP_ALL_VP_ENH_SEC
<D>	cmd_seq	C_CSMP_ALL_VP_ENH_HRS
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History:	11.12.98	SAB	Initial
	29.11.2002	TLU	VP Enhanced format added

3.4.5 ASC202: Send Short Message

Description:

A short message will be sent successfully.

Preamble:

<A>ASC201A
<B>ASC201B
<C>ASC201C
<D>ASC201D

Variants: <A>...<D>

```
    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_SUBMIT_CNF      |
     |                             *<===========================*
(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
	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		
	mem_type	MEM_SM
	rec_num	SMS_RECORD_NOT_EXIST
	condx	SMS_CONDX_OVR_NON
	modify	SMS_MODIFY_NON
<A>	sms_sdu	SM7_ABCDEFGHI_08
<B>	sms_sdu	SM7_ABCDEFGHI_10
<C>	sms_sdu	SM7_ABCDEFGHI_11
<D>	sms_sdu	SM7_ABCDEFGHI_12
(5) MNSMS_SUBMIT_CNF		
	mem_type	MEM_SM
	rec_num	SMS_RECORD_NOT_EXIST
	cause	SMS_NO_ERROR
	tp_mr	MSG_REF_01
	sms_sdu	SUBMIT_REPORT_ACK_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
	13.08.2001	TLU	MNSMS_REPORT_IND --> MNSMS_SUBMIT_CNF
	29.11.2002	TLU	SUBMIT_REQs with VP Enhanced format added

3.4.6 ASC203: Receive Short Message FAILS: ... sms_sdu as NOT_USED probably not a good idea

Description:

A short message will be received and stored in memory (ME) successfully. An indication about the mobile terminated message is sent to the application

Preamble:

ASC206

```
    APL                          ACI                          PS
     |                            |                            |
(1)  |                            |      MNSMS_MESSAGE_IND     |
     |                            *<===========================*
(2)  |         ACI_CMD_IND        |                            |
     |         (msg: CMTI)        |                            |
     *<===========================*                            |
     |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) MNSMS_MESSAGE_IND		
	mem_type	MEM_ME
	rec_num	REC_NUM_05
	rec_max	REC_NUM_MAX
	status	SMS_RECORD_REC_UNREAD
	sms_sdu	NOT_USED
(2) ACI_CMD_IND		
	cmd_len	LM_CMTI_ME_05
	cmd_seq	M_CMTI_ME_05

History:	15.12.98	SAB	Initial
	13.08.2001	TLU	MNSMS_ALERT_IND → MNSMS_MESSAGE_IND

3.4.7 ASC204: Receive Short Message

Description:

A short message will be received successfully. The mobile terminated message itself will be sent to the application.

<A> receive message with number in OA field
<B> receive message with alphanumeric string in OA field

Preamble:

ASC206

Variants: <A>...<B>

```
     APL                            ACI                            PS
      |                              |                              |
(1)   |                              |      MNSMS_MESSAGE_IND       |
      |                              *<===========================*
(2)   |         ACI_CMD_IND          |                              |
      |         (msg: CMT)           |                              |
      *<===========================*                              |
(3)   |         ACI_CMD_IND          |                              |
      |       (msg: CMT edit)        |                              |
      *<===========================*                              |
      |                              |                              |
```

Parametrization:

	Primitive	Parameter	Value
(1)	MNSMS_MESSAGE_IND		
		mem_type	MEM_ME
		rec_num	SMS_RECORD_NOT_EXIST
		rec_max	REC_NUM_MAX
		status	SMS_RECORD_REC_UNREAD
	<A>	sms_sdu	DELIVER_02
	<B>	sms_sdu	DELIVER_08
(2)	ACI_CMD_IND		
	<A>	cmd_len	LM_CMT_ABCDEFGHI_HEADER
	<B>	cmd_len	LM_CMT_ABCDEFGHI_HEADER_TON_ALPH
	<A>	cmd_seq	M_CMT_ABCDEFGHI_HEADER
	<B>	cmd_seq	M_CMT_ABCDEFGHI_HEADER_TON_ALPH
(3)	ACI_CMD_IND		
		cmd_len	LM_CMT_ABCDEFGHI
		cmd_seq	M_CMT_ABCDEFGHI

History:	15.12.98	SAB	Initial
	13.08.2001	TLU	MNSMS_MT_IND → MNSMS_MESSAGE_IND
	26.11.2002	TLU	message with alphanumeric string in OA field added

3.4.8 ASC205: Select Cell Broadcast Message Types

Description:

The types of cell broadcast messages which will be received by the mobile are selected successfully.

Preamble:

ASC240

```
     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

3.4.9 ASC206: New Message Indication

Description:

Successfull setting of the procedures, how receiving of new messages from network is indicated.

Preamble:

ASC205

```
    APL                         ACI                         PS
     |                           |                           |
(1)  |        ACI_CMD_REQ        |                           |
     |        (cmd: CNMI)        |                           |
     *==========================>*                           |
(2)  |                           |    MNSMS_CONFIGURE_REQ    |
     |                           *==========================>*
(3)  |                           |        MMI_CBCH_REQ       |
     |                           *==========================>*
(4)  |        ACI_CMD_IND        |                           |
     |         (msg: OK)         |                           |
     *<==========================*                           |
TIMEOUT(1000)
     |                           |                           |
```

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

Primitive	Parameter	Value
(3) MMI_CBCH_REQ		
	msg_id	CBM_MIDS_ON
	dcs_id	CBM_DCS_ON
	modus	CBCH_ACCEPT
(4) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 15.12.98 SAB Initial

3.4.10 ASC207: Read Message

Description:

A short message from memory is read succesfully.

Preamble:

ASC240

```
    APL                           ACI                           PS
     |                             |                             |
(1)  |         ACI_CMD_REQ         |                             |
     |         (cmd: CMGR)         |                             |
     *===========================> *                             |
(2)  |                             |       MNSMS_READ_REQ        |
     |                             *===========================> *
(3)  |                             |       MNSMS_READ_CNF        |
     |                             *<=========================== *
(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
	rec_num	REC_NUM_02
	read_mode	READ_NORMAL
	status	NOT_PRESENT_8BIT

(3) MNSMS_READ_CNF

mem_type	MEM_SM
rec_num	REC_NUM_02
rec_next	SMS_RECORD_NOT_EXIST
rec_max	REC_NUM_MAX
cause	SMS_NO_ERROR
rec_status	NUM_0
status	SMS_RECORD_STO_UNSENT
sms_sdu	SM7_ABCDEFGHI_01

(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
	13.08.2001	TLU	MNSMS_MO_IND → MNSMS_READ_CNF

3.4.11 ASC208: Send Message From Memory

Description:

A short message from memory is sent successfully. The SCA with the stored message has to be used.

Preamble:

ASC240

```
    APL                          ACI                          PS
     |                            |                            |
(1)  |        ACI_CMD_REQ         |                            |
     |        (cmd: CSCA)         |                            |
     * =========================> *                            |
(2)  |        ACI_CMD_IND         |                            |
     |         (msg: OK)          |                            |
     * <========================= *                            |
(3)  |        ACI_CMD_REQ         |                            |
     |        (cmd: CMSS)         |                            |
     * =========================> *                            |
(4)  |                            |      MNSMS_SUBMIT_REQ      |
     |                            *==========================> *
(5)  |                            |      MNSMS_SUBMIT_CNF      |
     |                            *<========================== *
(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_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_SUBMIT_REQ		
	mem_type	MEM_SM
	rec_num	REC_NUM_02
	condx	SMS_CONDX_OVR_ANY
	modify	SMS_MODIFY_SCA
	sms_sdu	NOT_USED
(5) MNSMS_SUBMIT_CNF		
	mem_type	NUM_0
	rec_num	REC_NUM_02
	cause	SMS_NO_ERROR
	tp_mr	MSG_REF_02
	sms_sdu	SUBMIT_REPORT_ACK_01
(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
	17.04.2000	FK	Settinf of SCA to control correct handling
	13.08.2001	TLU	MNSMS_MO_IND deleted MNSMS_REPORT_IND → MNSMS_SUBMIT_CNF

3.4.12 ASC209: Delete Message

Description:

A short message from memory is deleted succesfully.

Preamble:

ASC240

```
    APL                          ACI                          PS
     |                            |                            |
(1)  |        ACI_CMD_REQ         |                            |
     |        (cmd: CMGD)         |                            |
     *==========================> *                            |
(2)  |                            |      MNSMS_DELETE_REQ      |
     |                            *==========================> *
```

```
(3)   |                            |       MNSMS_DELETE_CNF        |
      |                            *<=============================*
(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_DELETE_CNF		
		mem_type	MEM_SM
		rec_num	REC_NUM_02
		cause	SMS_NO_ERROR
(4)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History:	16.12.98	SAB	Initial
	13.08.2001	TLU	MNSMS_REPORT_IND → MNSMS_DELETE_CNF

3.4.13 ASC210: Write Message

Description:

A short message (A: MT, B: MO without destination address) will be successfully written to memory.

Preamble:

ASC201A

Variants: <A>...<B>

```
     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_STORE_CNF         |
      |                            *<=============================*
(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_WRITING
	<B>	cmd_len	LC_CMGW_WRITING_WO
	<A>	cmd_seq	C_CMGW_WRITING
	<B>	cmd_seq	C_CMGW_WRITING_WO
(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	SMS_RECORD_NOT_EXIST
		condx	SMS_CONDX_OVR_NON
	<A>	status	SMS_RECORD_REC_UNREAD
	<B>	status	SMS_RECORD_STO_UNSENT
	<A>	sms_sdu	DELIVER_07
	<B>	sms_sdu	SM7_ABCDEFGHI_09
(5)	MNSMS_STORE_CNF		
		mem_type	MEM_SM
		rec_num	REC_NUM_02
		cause	SMS_NO_ERROR
(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
	13.08.2001	TLU	MNSMS_REPORT_IND → MNSMS_STORE_CNF

3.4.14 ASC211: Receive Status Report

Description:

A status report will be received successfully.

Preamble:

ASC206

```
    APL                           ACI                           PS
     |                             |                             |
(1)  |                             |      MNSMS_STATUS_IND       |
     |                             *<===========================*
(2)  |          ACI_CMD_IND        |                             |
     |          (msg: CDS)         |                             |
     *<===========================*                              |
     |                             |                             |
```

Parametrization:

	Primitive	Parameter	Value
(1)	MNSMS_STATUS_IND		
		sms_sdu	STATUS_REPORT_01
(2)	ACI_CMD_IND		
		cmd_len	LM_CDS_01
		cmd_seq	M_CDS_01

History:	15.12.98	SAB	Initial
	13.08.2001	TLU	elements of MNSMS_STATUS_IND changed

3.4.15 ASC212: Send Command

Description:

A command message will be sent successfully.

Preamble:

ASC200

```
    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_COMMAND_CNF       |
     |                             *<===========================*
(6)  |                             |      MNSMS_STATUS_IND       |
     |                             *<===========================*
(7)  |         ACI_CMD_IND         |                             |
     |         (msg: CMGC)         |                             |
     *<===========================*                              |
(8)   |         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_sdu	COMMAND_02
(5) MNSMS_COMMAND_CNF		
	cause	SMS_NO_ERROR
	tp_mr	MSG_REF_02
	sms_sdu	SUBMIT_REPORT_ACK_01
(6) MNSMS_STATUS_IND		
	sms_sdu	STATUS_REPORT_02
(7) ACI_CMD_IND		
	cmd_len	LM_CMGC_MSG_REF_2
	cmd_seq	M_CMGC_MSG_REF_2
(8) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History:	15.12.98	SAB	Initial
	13.08.2001	TLU	MNSMS_REPORT_IND removed, MNSMS_COMMAND_CNF and MNSMS_STATUS_IND added

3.4.16 ASC213: Select Message Service

Description:

The message service will be selected successfully.

Preamble:

ASC240

```
    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

3.4.17 ASC214: Receiving a Cell Broadcast Message

Description:

A cell broadcast message will be received successfully.

Preamble:

ASC206

```
     APL                           ACI                           PS
      |                              |                              |
(1)   |                              |         MMI_CBCH_IND         |
      |                              *<============================*
(2)   |         ACI_CMD_IND          |                              |
      |         (msg: CBM)           |                              |
      *<============================*                              |
(3)   |         ACI_CMD_IND          |                              |
      |       (msg: CBM edit)        |                              |
      *<============================*                              |
      |                              |                              |
```

Parametrization:

Primitive	Parameter	Value
(1) MMI_CBCH_IND		
	cbch_msg	CBCH_MSG_3
	cbch_len	CBCH_MSG_LEN

(2) ACI_CMD_IND		
	cmd_len	LM_CBM_RECEIVE
	cmd_seq	M_CBM_RECEIVE
(3) ACI_CMD_IND		
	cmd_len	LM_CBM_MSG_3
	cmd_seq	M_CBM_MSG_3

History: 15.12.98 SAB Initial

3.4.18 ASC215: Query Settings of Text Mode Parameter

Description:

The settings of the text mode parameter are queried successfully.

Preamble:

<A>ASC201A
<B>ASC201B
<C>ASC201C
<D>ASC201D

Variants: <A>...<D>

```
    APL                          ACI                          PS
     |                            |                            |
(1)  |         ACI_CMD_REQ        |                            |
     |         (cmd: CSMP)        |                            |
     *==========================> *                            |
(2)  |         ACI_CMD_IND        |                            |
     |         (msg: CSMP)        |                            |
     *<========================== *                            |
(3)  |         ACI_CMD_IND        |                            |
     |          (msg: OK)         |                            |
     *<========================== *                            |
     |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSMP_QUERY
	cmd_seq	C_CSMP_QUERY
(2) ACI_CMD_IND		
<A>	cmd_len	LM_CSMP_QUERY
<B>	cmd_len	LM_CSMP_QUERY_VP_ENH_REL
<C>	cmd_len	LM_CSMP_QUERY_VP_ENH_SEC
<D>	cmd_len	LM_CSMP_QUERY_VP_ENH_HRS
<A>	cmd_seq	M_CSMP_QUERY
<B>	cmd_seq	M_CSMP_QUERY_VP_ENH_REL
<C>	cmd_seq	M_CSMP_QUERY_VP_ENH_SEC
<D>	cmd_seq	M_CSMP_QUERY_VP_ENH_HRS
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History:	15.12.98	SAB	Initial
	29.11.2002	TLU	VP Enhanced format added

3.4.19 ASC216: Query Service Center Address

Description:

The service center addres is queried successfully.

Preamble:

ASC201A

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

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCA_QUERY
	cmd_seq	C_CSCA_QUERY
(2) ACI_CMD_IND		
	cmd_len	LM_CSCA_QUERY
	cmd_seq	M_CSCA_QUERY
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History:	15.12.98	SAB	Initial

3.4.20 ASC217: Query Settings for the New Message Indications

Description:

The settings for the new message indications are queried successfully.

Preamble:

ASC206

```
    APL                            ACI                            PS
     |                              |                              |
(1)  |         ACI_CMD_REQ          |                              |
     |         (cmd: CNMI)          |                              |
     *===========================>*                              |
(2)  |         ACI_CMD_IND          |                              |
     |         (msg: CNMI)          |                              |
     *<===========================*                              |
(3)   |         ACI_CMD_IND          |                             |
      |          (msg: OK)           |                             |
      *<============================*                             |
      |                              |                             |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CNMI_QUERY
		cmd_seq	C_CNMI_QUERY
(2)	ACI_CMD_IND		
		cmd_len	LM_CNMI_QUERY
		cmd_seq	M_CNMI_QUERY
(3)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History: 15.12.98 SAB Initial

3.4.21 ASC218: Query Selected Cell Broadcast Message Types

Description:

The selected cell broadcast message types are queried successfully.

Preamble:

ASC205

```
    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_QUERY
		cmd_seq	C_CSCB_QUERY
(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

3.4.22 ASC219: Query Selected Message Service

Description:

The selected message service is queried successfully.

Preamble:

ASC240

```
    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

3.4.23 ASC221: Receive Short Message

Description:

A short message will be received successfully. The mobile terminated message itself will be sent to the application. The message is created using a 7 bit alphabet and has maximum length.

Preamble:

ASC206

```
    APL                          ACI                          PS
      |                            |                            |
(1)   |                            |     MNSMS_MESSAGE_IND      |
      |                            *<===========================*
(2)   |        ACI_CMD_IND         |                            |
      |        (msg: CMT)          |                            |
      *<===========================*                            |
(3)   |         ACI_CMD_IND         |                              |
      |       (msg: CMT edit)       |                              |
      *<===========================*                              |
      |                             |                              |
```

Parametrization:

	Primitive	Parameter	Value
(1)	MNSMS_MESSAGE_IND		
		mem_type	MEM_ME
		rec_num	SMS_RECORD_NOT_EXIST
		rec_max	REC_NUM_MAX
		status	SMS_RECORD_REC_UNREAD
		sms_sdu	DELIVER_03
(2)	ACI_CMD_IND		
		cmd_len	LM_CMT_0123456789_RPT_HEADER
		cmd_seq	M_CMT_0123456789_RPT_HEADER
(3)	ACI_CMD_IND		
		cmd_len	LM_CMT_0123456789_RPT
		cmd_seq	M_CMT_0123456789_RPT

History:	15.12.98	SAB	Initial
	13.08.2001	TLU	MNSMS_MT_IND → MNSMS_MESSAGE_IND

3.4.24 ASC222: Receive Short Message

Description:

A short message will be received successfully. The mobile terminated message itself will be sent to the application. The user data consist of a user data header and the short message itself.

Preamble:

ASC206

```
     APL                           ACI                            PS
      |                             |                              |
(1)   |                             |      MNSMS_MESSAGE_IND       |
      |                             *<============================*
(2)   |         ACI_CMD_IND         |                              |
      |          (msg: CMT)         |                              |
      *<===========================*                              |
(3)   |         ACI_CMD_IND         |                              |
      |       (msg: CMT edit)       |                              |
      *<===========================*                              |
      |                             |                              |
```

Parametrization:

	Primitive	Parameter	Value
(1)	MNSMS_MESSAGE_IND	mem_type	MEM_ME
		rec_num	SMS_RECORD_NOT_EXIST
		rec_max	REC_NUM_MAX
		status	SMS_RECORD_REC_UNREAD
		sms_sdu	DELIVER_04
(2)	ACI_CMD_IND		
		cmd_len	LM_CMT_UDH_ABCDEFGHI_HEADER
		cmd_seq	M_CMT_UDH_ABCDEFGHI_HEADER

(3) ACI_CMD_IND		
	cmd_len	LM_CMT_UDH_ABCDEFGHI
	cmd_seq	M_CMT_UDH_ABCDEFGHI

History:	15.12.98	SAB	Initial
	13.08.2001	TLU	MNSMS_MT_IND → MNSMS_MESSAGE_IND

3.4.25 ASC223: New Message Indication

Description:

Successfull setting of the procedures, how receiving of new messages from network is indicated.

Preamble:

ASC201A

```
    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

3.4.26 ASC224: Select Cell Broadcast Message Types

Description:

The types of cell broadcast messages which will be received by the mobile are selected successfully.

Preamble:

ASC223

```
     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

3.4.27 ASC225: Select Cell Broadcast Message Types

Description:

The types of cell broadcast messages which will be received by the mobile are selected successfully.

Preamble:

ASC223

```
     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

3.4.28 ASC226: Select Preferred Message Storage

Description:

Preferred Message Storage will be selected successfully.

Preamble:

ASC203

```
    APL                          ACI                          PS
     |                            |                            |
(1)  |        ACI_CMD_REQ         |                            |
     |        (cmd: CPMS)         |                            |
     *===========================>*                            |
(2)  |                            |    MNSMS_CONFIGURE_REQ     |
     |                            *===========================>*
(3)  |        ACI_CMD_IND         |                            |
     |        (msg: CPMS)         |                            |
     *<===========================*                            |
(4)  |        ACI_CMD_IND         |                            |
     |         (msg: OK)          |                            |
     *<===========================*                            |
(5)  |        ACI_CMD_REQ         |                            |
     |       (cmd: CPMS?)         |                            |
     *===========================>*                            |
(6)  |        ACI_CMD_IND         |                            |
     |        (msg: CPMS)         |                            |
     *<===========================*                            |
(7)  |        ACI_CMD_IND         |                            |
     |         (msg: OK)          |                            |
     *<===========================*                            |
     |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CPMS_SET_SM_ME_ME
		cmd_seq	C_CPMS_SET_SM_ME_ME

(2) MNSMS_CONFIGURE_REQ		
	pref_mem_3	MEM_ME
	mt	MT2
	ds	DS1
	mhc	SMS_MHC_PH2
(3) ACI_CMD_IND		
	cmd_len	LM_CPMS_SET_SM_ME_ME
	cmd_seq	M_CPMS_SET_SM_ME_ME
(4) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(5) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CPMS_QUERY
	cmd_seq	C_CPMS_QUERY
(6) ACI_CMD_IND		
	cmd_len	LM_CPMS_QUERY_SM_ME_ME
	cmd_seq	M_CPMS_QUERY_SM_ME_ME
(7) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History:	11.12.98	SAB	Initial
	17.08.2001	TLU	MNSMS_INFO_REQ/CNF removed

3.4.29 ASC227: List Messages

Description:

A list of MO unsent messages stored in the preferred memory storage will be created successfully.

Preamble:

ASC240

```
      APL                          ACI                          PS
       |                            |                            |
(1)    |        ACI_CMD_REQ         |                            |
       |        (cmd: CMGL)         |                            |
       *==========================> *                            |
(2)    |                            |       MNSMS_READ_REQ       |
       |                            *==========================> *
(3)    |                            |       MNSMS_READ_CNF       |
       |                            *<========================== *
(4)    |        ACI_CMD_IND         |                            |
       |        (msg: CMGL)         |                            |
       *<========================== *                            |
(5)    |        ACI_CMD_IND         |                            |
       |        (msg: CMGL)         |                            |
       *<========================== *                            |
(6)    |                            |       MNSMS_READ_REQ       |
       |                            *==========================> *
(7)    |                            |       MNSMS_READ_CNF       |
       |                            *<========================== *
(8)    |        ACI_CMD_IND         |                            |
       |        (msg: CMGL)         |                            |
       *<========================== *                            |
(9)   |        ACI_CMD_IND         |                            |
      |        (msg: CMGL)         |                            |
      *<===========================*                            |
(10)  |                            |       MNSMS_READ_REQ       |
      |                            *===========================>*
(11)  |                            |       MNSMS_READ_CNF       |
      |                            *<===========================*
(12)  |        ACI_CMD_IND         |                            |
      |        (msg: CMGL)         |                            |
      *<===========================*                            |
(13)  |        ACI_CMD_IND         |                            |
      |        (msg: CMGL)         |                            |
      *<===========================*                            |
(14)  |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<===========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMGL_STO_UNSENT
	cmd_seq	C_CMGL_STO_UNSENT
(2) MNSMS_READ_REQ		
	mem_type	MEM_SM
	rec_num	SMS_RECORD_NOT_EXIST
	read_mode	READ_NORMAL
	status	SMS_RECORD_STO_UNSENT
(3) MNSMS_READ_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_03
	rec_next	REC_NUM_14
	rec_max	REC_NUM_MAX
	cause	SMS_NO_ERROR
	rec_status	NUM_0
	status	SMS_RECORD_STO_UNSENT
	sms_sdu	SM7_ABCDEFGHI_01
(4) ACI_CMD_IND		
	cmd_len	LM_CMGL_ENTRY_03
	cmd_seq	M_CMGL_ENTRY_03
(5) ACI_CMD_IND		
	cmd_len	LM_CMT_ABCDEFGHI
	cmd_seq	M_CMT_ABCDEFGHI
(6) MNSMS_READ_REQ		
	mem_type	MEM_SM
	rec_num	REC_NUM_14
	read_mode	READ_NORMAL
	status	SMS_RECORD_STO_UNSENT

(7) MNSMS_READ_CNF

mem_type	MEM_SM
rec_num	REC_NUM_14
rec_next	REC_NUM_25H
rec_max	REC_NUM_MAX
cause	SMS_NO_ERROR
rec_status	NUM_0
status	SMS_RECORD_STO_UNSENT
sms_sdu	SM7_ABCDEFGHI_03

(8) ACI_CMD_IND

cmd_len	LM_CMGL_ENTRY_14
cmd_seq	M_CMGL_ENTRY_14

(9) ACI_CMD_IND

cmd_len	LM_CMT_ABCDEFGHI
cmd_seq	M_CMT_ABCDEFGHI

(10)MNSMS_READ_REQ

mem_type	MEM_SM
rec_num	REC_NUM_25H
read_mode	READ_NORMAL
status	SMS_RECORD_STO_UNSENT

(11)MNSMS_READ_CNF

mem_type	MEM_SM
rec_num	REC_NUM_25H
rec_next	SMS_RECORD_NOT_EXIST
rec_max	REC_NUM_MAX
cause	SMS_NO_ERROR
rec_status	NUM_0
status	SMS_RECORD_STO_UNSENT
sms_sdu	SM7_ABCDEFGHI_05

(12)ACI_CMD_IND

cmd_len	LM_CMGL_ENTRY_25
cmd_seq	M_CMGL_ENTRY_25

(13)ACI_CMD_IND

cmd_len	LM_CMT_ABCDEFGHI
cmd_seq	M_CMT_ABCDEFGHI

(14)ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History:	11.12.98	SAB	Initial
	14.04.2000	FK	Primitive Change
	20.03.2001	FK	Use of various message types
	13.08.2001	TLU	MNSMS_INFO_REQ/CNF removed MNSMS_MO_IND → MNSMS_READ_CNF

3.4.30 ASC228: List Messages

Description:

A list of all messages stored in the preferred memory storage will be created successfully.

Preamble:

ASC240

```
   APL                          ACI                          PS
    |                            |                            |
(1)   |       ACI_CMD_REQ         |                           |
      |       (cmd: CMGL)         |                           |
      *==========================>*                           |
(2)   |                           |      MNSMS_READ_REQ       |
      |                           *==========================>*
(3)   |                           |      MNSMS_READ_CNF       |
      |                           *<==========================*
(4)   |       ACI_CMD_IND         |                           |
      |       (msg: CMGL)         |                           |
      *<==========================*                           |
(5)   |       ACI_CMD_IND         |                           |
      |       (msg: CMGL)         |                           |
      *<==========================*                           |
(6)   |                           |      MNSMS_READ_REQ       |
      |                           *==========================>*
(7)   |                           |      MNSMS_READ_CNF       |
      |                           *<==========================*
(8)   |       ACI_CMD_IND         |                           |
      |       (msg: CMGL)         |                           |
      *<==========================*                           |
(9)   |       ACI_CMD_IND         |                           |
      |       (msg: CMGL)         |                           |
      *<==========================*                           |
(10)  |                           |      MNSMS_READ_REQ       |
      |                           *==========================>*
(11)  |                           |      MNSMS_READ_CNF       |
      |                           *<==========================*
(12)  |       ACI_CMD_IND         |                           |
      |       (msg: CMGL)         |                           |
      *<==========================*                           |
(13)  |       ACI_CMD_IND         |                           |
      |       (msg: CMGL)         |                           |
      *<==========================*                           |
(14)  |                           |      MNSMS_READ_REQ       |
      |                           *==========================>*
(15)  |                           |      MNSMS_READ_CNF       |
      |                           *<==========================*
(16)  |       ACI_CMD_IND         |                           |
      |       (msg: CMGL)         |                           |
      *<==========================*                           |
(17)  |       ACI_CMD_IND         |                           |
      |       (msg: CMGL)         |                           |
      *<==========================*                           |
(18)  |                           |      MNSMS_READ_REQ       |
      |                           *==========================>*
(19)  |                           |      MNSMS_READ_CNF       |
      |                           *<==========================*
(20)  |       ACI_CMD_IND         |                           |
      |       (msg: CMGL)         |                           |
      *<==========================*                           |
(21)  |       ACI_CMD_IND         |                           |
      |       (msg: CMGL)         |                           |
      *<==========================*                           |
(22)  |       ACI_CMD_IND         |                           |
      |        (msg: OK)          |                           |
      *<==========================*                           |
      |                           |                           |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMGL_ALL
	cmd_seq	C_CMGL_ALL
(2) MNSMS_READ_REQ		
	mem_type	MEM_SM
	rec_num	SMS_RECORD_NOT_EXIST
	read_mode	READ_NORMAL
	status	NOT_PRESENT_8BIT
(3) MNSMS_READ_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_03
	rec_next	REC_NUM_14
	rec_max	REC_NUM_MAX
	cause	SMS_NO_ERROR
	rec_status	NUM_0
	status	SMS_RECORD_STO_UNSENT
	sms_sdu	SM7_ABCDEFGHI_01
(4) ACI_CMD_IND		
	cmd_len	LM_CMGL_ENTRY_03
	cmd_seq	M_CMGL_ENTRY_03
(5) ACI_CMD_IND		
	cmd_len	LM_CMT_ABCDEFGHI
	cmd_seq	M_CMT_ABCDEFGHI
(6) MNSMS_READ_REQ		
	mem_type	MEM_SM
	rec_num	REC_NUM_14
	read_mode	READ_NORMAL
	status	NOT_PRESENT_8BIT
(7) MNSMS_READ_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_14
	rec_next	REC_NUM_25H
	rec_max	REC_NUM_MAX
	cause	SMS_NO_ERROR
	rec_status	NUM_0
	status	SMS_RECORD_STO_UNSENT
	sms_sdu	SM7_ABCDEFGHI_01
(8) ACI_CMD_IND		
	cmd_len	LM_CMGL_ENTRY_14
	cmd_seq	M_CMGL_ENTRY_14
(9) ACI_CMD_IND		
	cmd_len	LM_CMT_ABCDEFGHI
	cmd_seq	M_CMT_ABCDEFGHI
(10) MNSMS_READ_REQ		
	mem_type	MEM_SM
	rec_num	REC_NUM_25H
	read_mode	READ_NORMAL
	status	NOT_PRESENT_8BIT

(11) MNSMS_READ_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_25H
	rec_next	REC_NUM_36
	rec_max	REC_NUM_MAX
	cause	SMS_NO_ERROR
	rec_status	NUM_0
	status	SMS_RECORD_STO_UNSENT
	sms_sdu	SM7_ABCDEFGHI_01
(12) ACI_CMD_IND		
	cmd_len	LM_CMGL_ENTRY_25
	cmd_seq	M_CMGL_ENTRY_25
(13) ACI_CMD_IND		
	cmd_len	LM_CMT_ABCDEFGHI
	cmd_seq	M_CMT_ABCDEFGHI
(14) MNSMS_READ_REQ		
	mem_type	MEM_SM
	rec_num	REC_NUM_36
	read_mode	READ_NORMAL
	status	NOT_PRESENT_8BIT
(15) MNSMS_READ_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_36
	rec_next	REC_NUM_47
	rec_max	REC_NUM_MAX
	cause	SMS_NO_ERROR
	rec_status	NUM_0
	status	SMS_RECORD_STO_SENT
	sms_sdu	SM7_ABCDEFGHI_01
(16) ACI_CMD_IND		
	cmd_len	LM_CMGL_ENTRY_36
	cmd_seq	M_CMGL_ENTRY_36
(17) ACI_CMD_IND		
	cmd_len	LM_CMT_ABCDEFGHI
	cmd_seq	M_CMT_ABCDEFGHI
(18) MNSMS_READ_REQ		
	mem_type	MEM_SM
	rec_num	REC_NUM_47
	read_mode	READ_NORMAL
	status	NOT_PRESENT_8BIT
(19) MNSMS_READ_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_47
	rec_next	SMS_RECORD_NOT_EXIST
	rec_max	REC_NUM_MAX
	cause	SMS_NO_ERROR
	rec_status	NUM_0
	status	SMS_RECORD_REC_UNREAD
	sms_sdu	DELIVER_05
(20) ACI_CMD_IND		
	cmd_len	LM_CMGL_ENTRY_47
	cmd_seq	M_CMGL_ENTRY_47

(21) ACI_CMD_IND

cmd_len	LM_CMT_ABCDEFGHI
cmd_seq	M_CMT_ABCDEFGHI

(22) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History:	11.12.98	SAB	Initial
	14.04.2000	FK	Primitive Change
	13.08.2001	TLU	MNSMS_INFO_REQ/CNF removed MNSMS_MO_IND → MNSMS_READ_CNF

3.4.31 ASC229: New Message Indication FAILS: to be analysed

Description:

Successfull setting of the procedures, how receiving of new messages from network is indicated.

Preamble:

ASC205

```
    APL                         ACI                          PS
     |                           |                            |
(1)  |        ACI_CMD_REQ        |                            |
     |        (cmd: CNMI)        |                            |
     *==========================>*                            |
(2)  |                           |    MNSMS_CONFIGURE_REQ     |
     |                           *==========================>*
(3)  |                           |        MMI_CBCH_REQ        |
     |                           *==========================>*
(4)  |        ACI_CMD_IND        |                            |
     |         (msg: OK)         |                            |
     *<==========================*                            |
(5)  |                           |     MNSMS_MESSAGE_IND      |
     |                           *<==========================*
(6)  |                           |     MNSMS_MESSAGE_IND      |
     |                           *<==========================*
(7)  |                           |     MNSMS_MESSAGE_IND      |
     |                           *<==========================*
(8)  |        ACI_CMD_REQ        |                            |
     |        (cmd: CNMI)        |                            |
     *==========================>*                            |
(9)  |                           |    MNSMS_CONFIGURE_REQ     |
     |                           *==========================>*
(10) |                           |        MMI_CBCH_REQ        |
     |                           *==========================>*
(11) |        ACI_CMD_IND        |                            |
     |         (msg: OK)         |                            |
     *<==========================*                            |
(12) |        ACI_CMD_IND        |                            |
     |        (msg: CMT)         |                            |
     *<==========================*                            |
(13) |        ACI_CMD_IND        |                            |
     |      (msg: CMT edit)      |                            |
     *<==========================*                            |
(14)  |        ACI_CMD_IND        |                            |
      |         (msg: CMT)        |                            |
      *<==========================*                            |
(15)  |        ACI_CMD_IND        |                            |
      |      (msg: CMT edit)      |                            |
      *<==========================*                            |
(16)  |        ACI_CMD_IND        |                            |
      |         (msg: CMT)        |                            |
      *<==========================*                            |
(17)  |        ACI_CMD_IND        |                            |
      |      (msg: CMT edit)      |                            |
      *<==========================*                            |
      |                           |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CNMI_BUFFER
	cmd_seq	C_CNMI_BUFFER
(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	CBCH_ACCEPT
(4) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(5) MNSMS_MESSAGE_IND		
	mem_type	MEM_ME
	rec_num	SMS_RECORD_NOT_EXIST
	rec_max	REC_NUM_MAX
	status	SMS_RECORD_REC_UNREAD
	sms_sdu	DELIVER_02
(6) MNSMS_MESSAGE_IND		
	mem_type	MEM_ME
	rec_num	SMS_RECORD_NOT_EXIST
	rec_max	REC_NUM_MAX
	status	SMS_RECORD_REC_UNREAD
	sms_sdu	DELIVER_02
(7) MNSMS_MESSAGE_IND		
	mem_type	MEM_ME
	rec_num	SMS_RECORD_NOT_EXIST
	rec_max	REC_NUM_MAX
	status	SMS_RECORD_REC_UNREAD
	sms_sdu	DELIVER_02

(8) ACI_CMD_REQ

cmd_src	CMD_SRC_EXT
cmd_len	LC_CNMI_BUFFER
cmd_seq	C_CNMI_BUFFER

(9) MNSMS_CONFIGURE_REQ

pref_mem_3	NOT_USED
mt	MT2
ds	DS1
mhc	SMS_MHC_PH2

(10) MMI_CBCH_REQ

msg_id	NOT_USED
dcs_id	NOT_USED
modus	CBCH_ACCEPT

(11) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(12) ACI_CMD_IND

cmd_len	LM_CMT_ABCDEFGHI_HEADER
cmd_seq	M_CMT_ABCDEFGHI_HEADER

(13) ACI_CMD_IND

cmd_len	LM_CMT_ABCDEFGHI
cmd_seq	M_CMT_ABCDEFGHI

(14) ACI_CMD_IND

cmd_len	LM_CMT_ABCDEFGHI_HEADER
cmd_seq	M_CMT_ABCDEFGHI_HEADER

(15) ACI_CMD_IND

cmd_len	LM_CMT_ABCDEFGHI
cmd_seq	M_CMT_ABCDEFGHI

(16) ACI_CMD_IND

cmd_len	LM_CMT_ABCDEFGHI_HEADER
cmd_seq	M_CMT_ABCDEFGHI_HEADER

(17) ACI_CMD_IND

cmd_len	LM_CMT_ABCDEFGHI
cmd_seq	M_CMT_ABCDEFGHI

History:	15.12.98	SAB	Initial
	13.8.2001	TLU	MNSMS_MT_IND → MNSMS_MESSAGE_IND

3.4.32 ASC230: Send Short Message

Description:

A short message will be sent successfully. The message contains characters in the range of 0x00 and 0x7F.

Preamble:

ASC201A

```
       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_SUBMIT_CNF      |
        |                              *<===========================*
(8)  |         ACI_CMD_IND          |                            |
        |         (msg: CMGS)          |                            |
        *<=============================*                            |
(9)  |         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		
		mem_type	MEM_SM
		rec_num	SMS_RECORD_NOT_EXIST
		condx	SMS_CONDX_OVR_NON
		modify	SMS_MODIFY_NON
		sms_sdu	SM7_SPECIAL_SIGNS_01

(7) MNSMS_SUBMIT_CNF		
	mem_type	MEM_SM
	rec_num	SMS_RECORD_NOT_EXIST
	cause	SMS_NO_ERROR
	tp_mr	MSG_REF_01
	sms_sdu	SUBMIT_REPORT_ACK_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

History:	11.12.98	SAB	Initial
	14.04.2000	FK	Primitive Change
	13.08.2001	TLU	MNSMS_REPORT_IND → MNSMS_SUBMIT_CNF

3.4.33 ASC231: 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:

ASC240

```
     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

3.4.34 ASC232: Send Short Message

Description:

A short message will be sent successfully. The message contains characters in the range of 0x00 and 0x7F.

Preamble:

ASC201A

```
     APL                         ACI                           PS
      |                           |                            |
(1)   |        ACI_CMD_REQ        |                            |
      |        (cmd: CSMP)        |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND        |                            |
      |         (msg: OK)         |                            |
      *<==========================*                            |
(1)   |        ACI_CMD_REQ        |                            |
      |        (cmd: CSCS)        |                            |
      *==========================>*                            |
(2)   |        ACI_CMD_IND        |                            |
      |         (msg: OK)         |                            |
      *<==========================*                            |
 (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_SUBMIT_CNF       |
      |                           *<===========================*
(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_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		
	mem_type	MEM_SM
	rec_num	SMS_RECORD_NOT_EXIST
	condx	SMS_CONDX_OVR_NON
	modify	SMS_MODIFY_NON
	sms_sdu	SM8_HEX_SPECIAL_SIGNS_01
(9) MNSMS_SUBMIT_CNF		
	mem_type	MEM_SM
	rec_num	SMS_RECORD_NOT_EXIST
	cause	SMS_NO_ERROR
	tp_mr	MSG_REF_01
	sms_sdu	SUBMIT_REPORT_ACK_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
	13.08.2001	TLU	MNSMS_REPORT_IND --> MNSMS_SUBMIT_CNF

3.4.35 ASC233: Select Broadcast Message Types

Description:

Select broadcast message types. The ranges exceed the supported amount, therefor an error is returned.

Preamble:

ASC240

```
    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

3.4.36 ASC234: New Message Indication

Description:

Failed setting of the procedures, how receiving of new messages from network is indicated.

Preamble:

ASC240

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

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CNMI_REJECT
		cmd_seq	C_CNMI_REJECT
(2)	ACI_CMD_IND		
		cmd_len	LM_ERROR
		cmd_seq	M_ERROR

History:	15.12.98	SAB	Initial

3.4.37 ASC235: Receive Short Message

Description:

A short message will be received successfully. The mobile terminated message itself will be sent to the application. An 8 bit alphabet is used.

Preamble:

ASC236

```
    APL                         ACI                          PS
     |                           |                            |
(1)  |                           |     MNSMS_MESSAGE_IND      |
     |                           *<===========================*
(2)  |        ACI_CMD_IND        |                            |
     |        (msg: CMT)         |                            |
     *<==========================*                            |
(3)  |        ACI_CMD_IND        |                            |
     |      (msg: CMT edit)      |                            |
     *<==========================*                            |
     |                           |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) MNSMS_MESSAGE_IND		
	mem_type	MEM_ME
	rec_num	SMS_RECORD_NOT_EXIST
	rec_max	REC_NUM_MAX
	status	SMS_RECORD_REC_UNREAD
	sms_sdu	DELIVER_06
(2) ACI_CMD_IND		
	cmd_len	LM_CMT_8_BIT_HEADER
	cmd_seq	M_CMT_8_BIT_HEADER
(3) ACI_CMD_IND		
	cmd_len	LM_CMT_ABCDEFGHI_HEX
	cmd_seq	M_CMT_ABCDEFGHI_HEX

History:	15.12.98	SAB	Initial
	13.08.2001	TLU	MNSMS_MT_IND → MNSMS_MESSAGE_IND

3.4.38 ASC236: New Message Indication

Description:

Successfull setting of the procedures, how receiving of new messages from network is indicated.

Preamble:

ASC205

```
    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_ONLY_CMT
		cmd_seq	C_CNMI_ONLY_CMT
(2)	MNSMS_CONFIGURE_REQ		
		pref_mem_3	NOT_USED
		mt	MT2
		ds	DS0
		mhc	SMS_MHC_PH2
(3)	MMI_CBCH_REQ		
		msg_id	CBM_MID_DEF
		dcs_id	CBM_DCS_DEF
		modus	MMI_CBCH_STOP
(4)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History: 15.12.98 SAB Initial

3.4.39 ASC237: Receiving a Cell Broadcast Message

Description:

A cell broadcast message will be received successfully.

Preamble:

ASC206

```
     APL                            ACI                           PS
      |                              |                            |
(1)   |                              |        MMI_CBCH_IND        |
      |                              *<===========================*
(2)   |         ACI_CMD_IND          |                            |
      |         (msg: CBM)           |                            |
      *<=============================*                            |
(3)   |         ACI_CMD_IND          |                            |
      |      (msg: CBM edit)         |                            |
      *<=============================*                            |
      |                              |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	MMI_CBCH_IND		
		cbch_msg	CBCH_MSG_4
		cbch_len	CBCH_MSG_LEN
(2)	ACI_CMD_IND		
		cmd_len	LM_CBM_RECEIVE
		cmd_seq	M_CBM_RECEIVE

(3) ACI_CMD_IND		
	cmd_len	LM_CBM_MSG_4
	cmd_seq	M_CBM_MSG_4

History: 15.12.98 SAB Initial

3.4.40 ASC238: Receive Status Report in PDU mode

Description:

A status report will be received successfully.

Preamble:

ASC206

```
      APL                        ACI                        PS
       |                          |                          |
(1)    |        ACI_CMD_REQ       |                          |
       |       (cmd: CMGF=0)      |                          |
       *=========================>*                          |
(2)    |        ACI_CMD_IND       |                          |
       |         (msg: OK)        |                          |
       *<=========================*                          |
(3)    |                          |     MNSMS_STATUS_IND     |
       |                          *<=========================*
(4)    |        ACI_CMD_IND       |                          |
       |        (msg: CDS)        |                          |
       *<=========================*                          |
(5)    |        ACI_CMD_IND       |                          |
       |        (msg: CDS)        |                          |
       *<=========================*                          |
       |                          |                          |
```

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) MNSMS_STATUS_IND		
	sms_sdu	STATUS_REPORT_01
(4) ACI_CMD_IND		
	cmd_len	LM_CDS_PDU1
	cmd_seq	M_CDS_PDU1
(5) ACI_CMD_IND		
	cmd_len	LM_CDS_PDU2
	cmd_seq	M_CDS_PDU2

History: 08.01.02 KGT Initial
28.02.02 TLU adapted to new SAP

3.5 Support of Message Service 1 (Phase 2+)

3.5.1 ASC251: Select Message Service

Description:

The message service Phase 2+ will be selected successfully.

Preamble:

ASC236

```
    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_2PLUS
	cmd_seq	C_CSMS_PHASE_2PLUS
(5) MNSMS_CONFIGURE_REQ		
	pref_mem_3	NOT_USED
	mt	MT2
	ds	DS0
	mhc	SMS_MHC_PH2PLUS
(2) ACI_CMD_IND		
	cmd_len	LM_CSMS_PHASE_2
	cmd_seq	M_CSMS_PHASE_2
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 07.12.99 FK Initial

3.5.2 ASC252: Query Selected Message Service

Description:

The selected message service is queried successfully.

Preamble:

ASC251

```
    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_2PLUS
	cmd_seq	M_CSMS_QUERY_2PLUS
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 07.12.99 FK Initial

3.5.3 ASC253: Receive Short Message

Description:

Two short messages will be received successfully. The mobile terminated message itself will be sent to the application and an acknowledgement according to GSM Phase 2+ will be generated. The acknowledgement for the second is missing, so MNSMS_ERROR_IND is sent to the ACI.

Preamble:

ASC252

```
    APL                          ACI                          PS
     |                            |                            |
(1)  |                            |     MNSMS_MESSAGE_IND      |
     |                            *<===========================*
(2)  |        ACI_CMD_IND         |                            |
     |        (msg: CMT)          |                            |
     *<===========================*                            |
(3)   |         ACI_CMD_IND          |                            |
      |       (msg: CMT edit)        |                            |
      *<============================*                            |
TIMEOUT(1000)
(4)   |         ACI_CMD_REQ          |                            |
      |         (cmd: CNMA)          |                            |
      *============================>*                            |
(5)   |                              |       MNSMS_ACK_RES        |
      |                              *============================>*
(6)   |         ACI_CMD_IND          |                            |
      |          (msg: OK)           |                            |
      *<============================*                            |
(7)   |                              |     MNSMS_MESSAGE_IND      |
      |                              *<============================*
(8)   |         ACI_CMD_IND          |                            |
      |         (msg: CMT)           |                            |
      *<============================*                            |
(9)   |         ACI_CMD_IND          |                            |
      |       (msg: CMT edit)        |                            |
      *<============================*                            |
(10)  |                              |      MNSMS_ERROR_IND       |
      |                              *<============================*
      |                              |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) MNSMS_MESSAGE_IND		
	mem_type	MEM_ME
	rec_num	SMS_RECORD_NOT_EXIST
	rec_max	REC_NUM_MAX
	status	SMS_RECORD_REC_UNREAD
	sms_sdu	DELIVER_02
(2) ACI_CMD_IND		
	cmd_len	LM_CMT_ABCDEFGHI_HEADER
	cmd_seq	M_CMT_ABCDEFGHI_HEADER
(3) ACI_CMD_IND		
	cmd_len	LM_CMT_ABCDEFGHI
	cmd_seq	M_CMT_ABCDEFGHI
(4) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CNMA
	cmd_seq	C_CNMA
(5) MNSMS_ACK_RES		
	resp	SMS_RP_ACK
	sms_sdu	DELIVER_REPORT_ACK_01
(6) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(7) MNSMS_MESSAGE_IND		
	mem_type	MEM_ME
	rec_num	SMS_RECORD_NOT_EXIST
	rec_max	REC_NUM_MAX
	status	SMS_RECORD_REC_UNREAD
	sms_sdu	DELIVER_02

(8) ACI_CMD_IND		
	cmd_len	LM_CMT_ABCDEFGHI_HEADER
	cmd_seq	M_CMT_ABCDEFGHI_HEADER
(9) ACI_CMD_IND		
	cmd_len	LM_CMT_ABCDEFGHI
	cmd_seq	M_CMT_ABCDEFGHI
(10) MNSMS_ERROR_IND		
	cause	SMS_CAUSE_UNEXP_CNMA

History:	07.12.99	FK	Initial
	13.08.2001	TLU	MNSMS_MT_IND → MNSMS_MESSAGE_IND
	22.02.2002	TLU	OK is now expected and MNSMS_ERROR_IND added

3.5.4 ASC254: Setting New Message Indication

Description:

Successfull setting of the procedures, how receiving of new messages from network is indicated.

Preamble:

ASC201A

```
    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

3.5.5 ASC255: 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:

ASC254

```
    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_MESSAGE_IND     |
     |                           *<==========================*
(6)  |                           |      MNSMS_STORE_CNF      |
     |                           *<==========================*
(7)  |        ACI_CMD_IND        |                           |
     |        (msg: CMGW)        |                           |
     *<==========================*                           |
(8)  |        ACI_CMD_IND        |                           |
     |         (msg: OK)         |                           |
     *<==========================*                           |
(9)  |        ACI_CMD_IND        |                           |
     |        (msg: CMTI)        |                           |
     *<==========================*                           |
     |                           |                           |
```

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	SMS_RECORD_NOT_EXIST
condx	SMS_CONDX_OVR_NON
status	SMS_RECORD_REC_UNREAD
sms_sdu	DELIVER_07

(5) MNSMS_MESSAGE_IND

mem_type	MEM_SM
rec_num	REC_NUM_01
rec_max	REC_NUM_MAX
status	SMS_RECORD_REC_UNREAD
sms_sdu	NOT_USED

(6) MNSMS_STORE_CNF

mem_type	MEM_SM
rec_num	REC_NUM_02
cause	SMS_NO_ERROR

(7) ACI_CMD_IND

cmd_len	LM_CMGW_REC_NUM_2
cmd_seq	M_CMGW_REC_NUM_2

(8) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

(9) ACI_CMD_IND

cmd_len	LM_CMTI
cmd_seq	M_CMTI_SM_01

History:	16.12.98	SAB	Initial
	14.04.2000	FK	Primitive Change
	13.08.2001	TLU	MNSMS_ALERT_IND → MNSMS_MESSAGE_IND, MNSMS_REPORT_IND → MNSMS_STORE_CNF

3.6 PSA MNSMS and MMI (ASC400 – ASC499) PDU Mode

3.6.1 ASC400: 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:

ASC001

```
    APL                           ACI                          PS
     |                             |                            |
(4)  |         ACI_CMD_REQ         |                            |
     |        (cmd: CMGF=0)        |                            |
     *===========================> *                            |
(5)  |         ACI_CMD_IND         |                            |
     |          (msg: OK)          |                            |
     *<=========================== *                            |
(6)  |         ACI_CMD_REQ         |                            |
     |         (cmd: CMGF)         |                            |
     *===========================> *                            |
(7)   |        ACI_CMD_IND        |                           |
      |        (msg: CMGF)        |                           |
      *<==========================*                           |
(8)   |        ACI_CMD_IND        |                           |
      |         (msg: OK)         |                           |
      *<==========================*                           |
(9)   |        ACI_CMD_REQ        |                           |
      |        (cmd: CSCA)        |                           |
      *==========================>*                           |
(10)  |        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
(6) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CSCA_ALT
	cmd_seq	C_CSCA_ALT
(7) 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

3.6.2 ASC401: List Messages, received unread

Description:

A list of all received unread messages stored in the preferred memory storage will be created successfully.

Preamble:

ASC400

```
      APL                          ACI                          PS
       |                            |                            |
(1)    |         ACI_CMD_REQ        |                            |
       |         (cmd: CMGL)        |                            |
       *===========================>*                            |
(2)    |                            |       MNSMS_READ_REQ       |
       |                            *===========================>*
(3)    |                            |       MNSMS_READ_CNF       |
       |                            *<===========================*
(4)    |         ACI_CMD_IND        |                            |
       |         (msg: CMGL)        |                            |
       *<===========================*                            |
(5)    |         ACI_CMD_IND        |                            |
       |         (msg: CMGL)        |                            |
       *<===========================*                            |
(6)    |                            |       MNSMS_READ_REQ       |
       |                            *===========================>*
(7)    |                            |       MNSMS_READ_CNF       |
       |                            *<===========================*
(8)    |         ACI_CMD_IND        |                            |
       |         (msg: CMGL)        |                            |
       *<===========================*                            |
(9)    |         ACI_CMD_IND        |                            |
       |         (msg: CMGL)        |                            |
       *<===========================*                            |
(10)   |         ACI_CMD_IND        |                            |
       |          (msg: OK)         |                            |
       *<===========================*                            |
       |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMGL
	cmd_seq	C_CMGL
(2) MNSMS_READ_REQ		
	mem_type	MEM_SM
	rec_num	SMS_RECORD_NOT_EXIST
	read_mode	READ_NORMAL
	status	SMS_RECORD_REC_UNREAD

(3) MNSMS_READ_CNF

mem_type	MEM_SM
rec_num	REC_NUM_5
rec_next	REC_NUM_40
rec_max	REC_NUM_MAX
cause	SMS_NO_ERROR
rec_status	NUM_0
status	SMS_RECORD_REC_UNREAD
sms_sdu	DELIVER_02

(4) ACI_CMD_IND

cmd_len	LM_CMGL_ENTRY_05_PDU
cmd_seq	M_CMGL_ENTRY_05_PDU

(5) ACI_CMD_IND

cmd_len	LM_CMT_PDU_REC_UNREAD
cmd_seq	M_CMT_PDU_REC_UNREAD

(6) MNSMS_READ_REQ

mem_type	MEM_SM
rec_num	REC_NUM_40
read_mode	READ_NORMAL
status	NOT_PRESENT_8BIT

(7) MNSMS_READ_CNF

mem_type	MEM_SM
rec_num	REC_NUM_40
rec_next	SMS_RECORD_NOT_EXIST
rec_max	REC_NUM_MAX
cause	SMS_NO_ERROR
rec_status	NUM_0
status	SMS_RECORD_REC_UNREAD
sms_sdu	DELIVER_02

(8) ACI_CMD_IND

cmd_len	LM_CMGL_ENTRY_40_PDU
cmd_seq	M_CMGL_ENTRY_40_PDU

(9) ACI_CMD_IND

cmd_len	LM_CMT_PDU_REC_UNREAD
cmd_seq	M_CMT_PDU_REC_UNREAD

(10) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History:	11.12.98	SAB	Initial
	13.08.2001	TLU	MNSMS_INFO_REQ/CNF removed, MNSMS_MT_IND → MNSMS_READ_CNF

3.6.3 ASC402: List Messages, received read

Description:

A list of all received read messages stored in the preferred memory storage will be created successfully.

Preamble:

ASC400

```
   APL                                ACI                                  PS
    |                                  |                                   |
(1)  |       ACI_CMD_REQ         |                           |
     |       (cmd: CMGL)         |                           |
     *==========================>*                           |
(2)  |                           |       MNSMS_READ_REQ      |
     |                           *==========================>*
(3)  |                           |       MNSMS_READ_CNF      |
     |                           *<==========================*
(4)  |       ACI_CMD_IND         |                           |
     |       (msg: CMGL)         |                           |
     *<==========================*                           |
(5)  |       ACI_CMD_IND         |                           |
     |       (msg: CMGL)         |                           |
     *<==========================*                           |
(6)  |                           |       MNSMS_READ_REQ      |
     |                           *==========================>*
(7)  |                           |       MNSMS_READ_CNF      |
     |                           *<==========================*
(8)  |       ACI_CMD_IND         |                           |
     |       (msg: CMGL)         |                           |
     *<==========================*                           |
(9)  |       ACI_CMD_IND         |                           |
     |       (msg: CMGL)         |                           |
     *<==========================*                           |
(10) |       ACI_CMD_IND         |                           |
     |        (msg: OK)          |                           |
     *<==========================*                           |
     |                           |                           |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMGL_PDU
	cmd_seq	C_CMGL_REC_READ_PDU
(2) MNSMS_READ_REQ		
	mem_type	MEM_SM
	rec_num	SMS_RECORD_NOT_EXIST
	read_mode	READ_NORMAL
	status	SMS_RECORD_REC_READ
(3) MNSMS_READ_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_3
	rec_next	REC_NUM_27
	rec_max	REC_NUM_MAX
	cause	SMS_NO_ERROR
	rec_status	NUM_0
	status	SMS_RECORD_REC_READ
	sms_sdu	DELIVER_02
(4) ACI_CMD_IND		
	cmd_len	LM_CMGL_ENTRY_03_PDU
	cmd_seq	M_CMGL_ENTRY_03_PDU

(5) ACI_CMD_IND		
	cmd_len	LM_CMT_PDU_REC_READ
	cmd_seq	M_CMT_PDU_REC_READ
(6) MNSMS_READ_REQ		
	mem_type	MEM_SM
	rec_num	REC_NUM_27
	read_mode	READ_NORMAL
	status	SMS_RECORD_REC_READ
(7) MNSMS_READ_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_27
	rec_next	SMS_RECORD_NOT_EXIST
	rec_max	REC_NUM_MAX
	cause	SMS_NO_ERROR
	rec_status	NUM_0
	status	SMS_RECORD_REC_READ
	sms_sdu	DELIVER_02
(8) ACI_CMD_IND		
	cmd_len	LM_CMGL_ENTRY_27_PDU
	cmd_seq	M_CMGL_ENTRY_27_PDU
(9) ACI_CMD_IND		
	cmd_len	LM_CMT_PDU_REC_READ
	cmd_seq	M_CMT_PDU_REC_READ
(10) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History:	11.12.98	SAB	Initial
	13.08.2001	TLU	MNSMS_INFO_REQ/CNF removed, MNSMS_MT_IND → MNSMS_READ_CNF

3.6.4 ASC403: List Messages, stored unsent

Description:

A list of all stored unsent messages stored in the preferred memory storage will be created successfully.

Preamble:

ASC400

```
     APL                            ACI                            PS
      |                              |                              |
(1)   |         ACI_CMD_REQ          |                              |
      |         (cmd: CMGL)          |                              |
      *============================> *                              |
(2)   |                              |        MNSMS_READ_REQ        |
      |                              *============================> *
(3)   |                              |        MNSMS_READ_CNF        |
      |                              *<============================ *
(4)   |         ACI_CMD_IND          |                              |
      |         (msg: CMGL)          |                              |
      *<============================ *                              |
(5)   |         ACI_CMD_IND          |                              |
      |         (msg: CMGL)          |                              |
      *<============================ *                              |
(6)   |                              |        MNSMS_READ_REQ        |
      |                              *============================> *
```

```
(7)   |                           |        MNSMS_READ_CNF          |
      |                           *<==========================*
(8)   |        ACI_CMD_IND        |                            |
      |        (msg: CMGL)        |                            |
      *<==========================*                            |
(9)   |        ACI_CMD_IND        |                            |
      |        (msg: CMGL)        |                            |
      *<==========================*                            |
(10)  |        ACI_CMD_IND        |                            |
      |         (msg: OK)         |                            |
      *<==========================*                            |
      |                           |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMGL_PDU
	cmd_seq	C_CMGL_STO_UNSENT_PDU
(2) MNSMS_READ_REQ		
	mem_type	MEM_SM
	rec_num	SMS_RECORD_NOT_EXIST
	read_mode	READ_NORMAL
	status	SMS_RECORD_STO_UNSENT
(3) MNSMS_READ_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_25
	rec_next	REC_NUM_33
	rec_max	REC_NUM_MAX
	cause	SMS_NO_ERROR
	rec_status	NUM_0
	status	SMS_RECORD_STO_UNSENT
	sms_sdu	SM7_ABCDEFGHI_01
(4) ACI_CMD_IND		
	cmd_len	LM_CMGL_ENTRY_25_PDU
	cmd_seq	M_CMGL_ENTRY_25_PDU
(5) ACI_CMD_IND		
	cmd_len	LM_CMT_PDU_UNSENT
	cmd_seq	M_CMT_PDU_UNSENT
(6) MNSMS_READ_REQ		
	mem_type	MEM_SM
	rec_num	REC_NUM_33
	read_mode	READ_NORMAL
	status	SMS_RECORD_STO_UNSENT
(7) MNSMS_READ_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_33
	rec_next	SMS_RECORD_NOT_EXIST
	rec_max	REC_NUM_MAX
	cause	SMS_NO_ERROR
	rec_status	NUM_0
	status	SMS_RECORD_STO_UNSENT
	sms_sdu	SM7_ABCDEFGHI_01

(8)	ACI_CMD_IND		
		cmd_len	LM_CMGL_ENTRY_33_PDU
		cmd_seq	M_CMGL_ENTRY_33_PDU
(9)	ACI_CMD_IND		
		cmd_len	LM_CMT_PDU_UNSENT
		cmd_seq	M_CMT_PDU_UNSENT
(10)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History:	11.12.98	SAB	Initial
	14.04.2000	FK	Primitive Change
	14.03.2001	FK	PDU length corrected
	13.08.2001	TLU	MNSMS_INFO_REQ/CNF removed, MNSMS_MO_IND → MNSMS_READ_CNF

3.6.5 ASC404: List Messages, stored sent

Description:

A list of all stored sent messages stored in the preferred memory storage will be created successfully.

Preamble:

ASC400

```
     APL                          ACI                          PS
      |                            |                            |
(1)   |        ACI_CMD_REQ         |                            |
      |        (cmd: CMGL)         |                            |
      *===========================>*                            |
(2)   |                            |       MNSMS_READ_REQ       |
      |                            *===========================>*
(3)   |                            |       MNSMS_READ_CNF       |
      |                            *<===========================*
(4)   |        ACI_CMD_IND         |                            |
      |        (msg: CMGL)         |                            |
      *<===========================*                            |
(5)   |        ACI_CMD_IND         |                            |
      |        (msg: CMGL)         |                            |
      *<===========================*                            |
(6)   |                            |       MNSMS_READ_REQ       |
      |                            *===========================>*
(7)   |                            |       MNSMS_READ_CNF       |
      |                            *<===========================*
(8)   |        ACI_CMD_IND         |                            |
      |        (msg: CMGL)         |                            |
      *<===========================*                            |
(9)   |        ACI_CMD_IND         |                            |
      |        (msg: CMGL)         |                            |
      *<===========================*                            |
(10)  |        ACI_CMD_IND         |                            |
      |         (msg: OK)          |                            |
      *<===========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMGL_PDU
	cmd_seq	C_CMGL_STO_SENT_PDU
(2) MNSMS_READ_REQ		
	mem_type	MEM_SM
	rec_num	SMS_RECORD_NOT_EXIST
	read_mode	READ_NORMAL
	status	SMS_RECORD_STO_SENT
(3) MNSMS_READ_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_9
	rec_next	REC_NUM_20
	rec_max	REC_NUM_MAX
	cause	SMS_NO_ERROR
	rec_status	NUM_0
	status	SMS_RECORD_STO_SENT
	sms_sdu	SM7_ABCDEFGHI_03
(4) ACI_CMD_IND		
	cmd_len	LM_CMGL_ENTRY_09_PDU_REL
	cmd_seq	M_CMGL_ENTRY_09_PDU_REL
(5) ACI_CMD_IND		
	cmd_len	LM_CMT_PDU_STO_SENT_REL
	cmd_seq	M_CMT_PDU_STO_SENT_REL
(6) MNSMS_READ_REQ		
	mem_type	MEM_SM
	rec_num	REC_NUM_20
	read_mode	READ_NORMAL
	status	SMS_RECORD_STO_SENT
(7) MNSMS_READ_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_20
	rec_next	SMS_RECORD_NOT_EXIST
	rec_max	REC_NUM_MAX
	cause	SMS_NO_ERROR
	rec_status	NUM_0
	status	SMS_RECORD_STO_SENT
	sms_sdu	SM7_ABCDEFGHI_05
(8) ACI_CMD_IND		
	cmd_len	LM_CMGL_ENTRY_20_PDU_ABS
	cmd_seq	M_CMGL_ENTRY_20_PDU_ABS
(9) ACI_CMD_IND		
	cmd_len	LM_CMT_PDU_STO_SENT_ABS
	cmd_seq	M_CMT_PDU_STO_SENT_ABS
(10) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History:	11.12.98	SAB	Initial
	14.04.2000	FK	Primitive Change
	14.03.2001	FK	PDU length corrected
	13.08.2001	TLU	MNSMS_INFO_REQ/CNF removed, MNSMS_MO_IND → MNSMS_READ_CNF

3.6.6 ASC405: List Messages, all

Description:

A list of all messages stored in the preferred memory storage will be created successfully.

Preamble:

ASC400

```
    APL                            ACI                            PS
     |                              |                              |
(1)  |         ACI_CMD_REQ          |                              |
     |         (cmd: CMGL)          |                              |
     *============================> *                              |
(4)  |                              |        MNSMS_READ_REQ        |
     |                              *============================> *
(5)  |                              |        MNSMS_READ_CNF        |
     |                              *<============================ *
(6)  |         ACI_CMD_IND          |                              |
     |         (msg: CMGL)          |                              |
     *<============================ *                              |
(7)  |         ACI_CMD_IND          |                              |
     |         (msg: CMGL)          |                              |
     *<============================ *                              |
(8)  |                              |        MNSMS_READ_REQ        |
     |                              *============================> *
(9)  |                              |        MNSMS_READ_CNF        |
     |                              *<============================ *
(10) |         ACI_CMD_IND          |                              |
     |         (msg: CMGL)          |                              |
     *<============================ *                              |
(11) |         ACI_CMD_IND          |                              |
     |         (msg: CMGL)          |                              |
     *<============================ *                              |
(12) |                              |        MNSMS_READ_REQ        |
     |                              *============================> *
(13) |                              |        MNSMS_READ_CNF        |
     |                              *<============================ *
(14) |         ACI_CMD_IND          |                              |
     |         (msg: CMGL)          |                              |
     *<============================ *                              |
(15) |         ACI_CMD_IND          |                              |
     |         (msg: CMGL)          |                              |
     *<============================ *                              |
(16) |                              |        MNSMS_READ_REQ        |
     |                              *============================> *
(17) |                              |        MNSMS_READ_CNF        |
     |                              *<============================ *
(18) |         ACI_CMD_IND          |                              |
     |         (msg: CMGL)          |                              |
     *<============================ *                              |
(19) |         ACI_CMD_IND          |                              |
     |         (msg: CMGL)          |                              |
     *<============================ *                              |
(20)  |                             |       MNSMS_READ_REQ        |
      |                             *===========================> *
(21)  |                             |       MNSMS_READ_CNF        |
      |                             *<=========================== *
(22)  |        ACI_CMD_IND          |                             |
      |        (msg: CMGL)          |                             |
      *<=========================== *                             |
(23)  |        ACI_CMD_IND          |                             |
      |        (msg: CMGL)          |                             |
      *<=========================== *                             |
(24)  |                             |       MNSMS_READ_REQ        |
      |                             *===========================> *
(25)  |                             |       MNSMS_READ_CNF        |
      |                             *<=========================== *
(26)  |        ACI_CMD_IND          |                             |
      |        (msg: CMGL)          |                             |
      *<=========================== *                             |
(27)  |        ACI_CMD_IND          |                             |
      |        (msg: CMGL)          |                             |
      *<=========================== *                             |
(28)  |                             |       MNSMS_READ_REQ        |
      |                             *===========================> *
(29)  |                             |       MNSMS_READ_CNF        |
      |                             *<=========================== *
(30)  |        ACI_CMD_IND          |                             |
      |        (msg: CMGL)          |                             |
      *<=========================== *                             |
(31)  |        ACI_CMD_IND          |                             |
      |        (msg: CMGL)          |                             |
      *<=========================== *                             |
(32)  |                             |       MNSMS_READ_REQ        |
      |                             *===========================> *
(33)  |                             |       MNSMS_READ_CNF        |
      |                             *<=========================== *
(34)  |        ACI_CMD_IND          |                             |
      |        (msg: CMGL)          |                             |
      *<=========================== *                             |
(35)  |        ACI_CMD_IND          |                             |
      |        (msg: CMGL)          |                             |
      *<=========================== *                             |
(36)  |        ACI_CMD_IND          |                             |
      |         (msg: OK)           |                             |
      *<=========================== *                             |
      |                             |                             |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMGL_PDU
	cmd_seq	C_CMGL_ALL_PDU
(2) MNSMS_READ_REQ		
	mem_type	MEM_SM
	rec_num	SMS_RECORD_NOT_EXIST
	read_mode	READ_NORMAL
	status	NOT_PRESENT_8BIT

(1) MNSMS_READ_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_3
	rec_next	REC_NUM_5
	rec_max	REC_NUM_MAX
	cause	SMS_NO_ERROR
	rec_status	NUM_0
	status	SMS_RECORD_REC_READ
	sms_sdu	DELIVER_02
(3) ACI_CMD_IND		
	cmd_len	LM_CMGL_ENTRY_03_PDU
	cmd_seq	M_CMGL_ENTRY_03_PDU
(4) ACI_CMD_IND		
	cmd_len	LM_CMT_PDU_REC_READ
	cmd_seq	M_CMT_PDU_REC_READ
(5) MNSMS_READ_REQ		
	mem_type	MEM_SM
	rec_num	REC_NUM_5
	read_mode	READ_NORMAL
	status	NOT_PRESENT_8BIT
(2) MNSMS_READ_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_5
	rec_next	REC_NUM_9
	rec_max	REC_NUM_MAX
	cause	SMS_NO_ERROR
	rec_status	NUM_0
	status	SMS_RECORD_REC_UNREAD
	sms_sdu	DELIVER_02
(6) ACI_CMD_IND		
	cmd_len	LM_CMGL_ENTRY_05_PDU
	cmd_seq	M_CMGL_ENTRY_05_PDU
(7) ACI_CMD_IND		
	cmd_len	LM_CMT_PDU_REC_UNREAD
	cmd_seq	M_CMT_PDU_REC_UNREAD
(8) MNSMS_READ_REQ		
	mem_type	MEM_SM
	rec_num	REC_NUM_9
	read_mode	READ_NORMAL
	status	NOT_PRESENT_8BIT
(3) MNSMS_READ_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_9
	rec_next	REC_NUM_20
	rec_max	REC_NUM_MAX
	cause	SMS_NO_ERROR
	rec_status	NUM_0
	status	SMS_RECORD_STO_SENT
	sms_sdu	SM7_ABCDEFGHI_03
(9) ACI_CMD_IND		
	cmd_len	LM_CMGL_ENTRY_09_PDU_REL
	cmd_seq	M_CMGL_ENTRY_09_PDU_REL

(10) ACI_CMD_IND

cmd_len	LM_CMT_PDU_STO_SENT_REL
cmd_seq	M_CMT_PDU_STO_SENT_REL

(11) MNSMS_READ_REQ

mem_type	MEM_SM
rec_num	REC_NUM_20
read_mode	READ_NORMAL
status	NOT_PRESENT_8BIT

(4) MNSMS_READ_CNF

mem_type	MEM_SM
rec_num	REC_NUM_20
rec_next	REC_NUM_25
rec_max	REC_NUM_MAX
cause	SMS_NO_ERROR
rec_status	NUM_0
status	SMS_RECORD_STO_SENT
sms_sdu	SM7_ABCDEFGHI_05

(12) ACI_CMD_IND

cmd_len	LM_CMGL_ENTRY_20_PDU_ABS
cmd_seq	M_CMGL_ENTRY_20_PDU_ABS

(13) ACI_CMD_IND

cmd_len	LM_CMT_PDU_STO_SENT_ABS
cmd_seq	M_CMT_PDU_STO_SENT_ABS

(14) MNSMS_READ_REQ

mem_type	MEM_SM
rec_num	REC_NUM_25
read_mode	READ_NORMAL
status	NOT_PRESENT_8BIT

(5) MNSMS_READ_CNF

mem_type	MEM_SM
rec_num	REC_NUM_25
rec_next	REC_NUM_27
rec_max	REC_NUM_MAX
cause	SMS_NO_ERROR
rec_status	NUM_0
status	SMS_RECORD_STO_UNSENT
sms_sdu	SM7_ABCDEFGHI_01

(15) ACI_CMD_IND

cmd_len	LM_CMGL_ENTRY_25_PDU
cmd_seq	M_CMGL_ENTRY_25_PDU

(16) ACI_CMD_IND

cmd_len	LM_CMT_PDU_UNSENT
cmd_seq	M_CMT_PDU_UNSENT

(17) MNSMS_READ_REQ

mem_type	MEM_SM
rec_num	REC_NUM_27
read_mode	READ_NORMAL
status	NOT_PRESENT_8BIT

(6) MNSMS_READ_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_27
	rec_next	REC_NUM_33
	rec_max	REC_NUM_MAX
	cause	SMS_NO_ERROR
	rec_status	NUM_0
	status	SMS_RECORD_REC_READ
	sms_sdu	DELIVER_02
(18) ACI_CMD_IND		
	cmd_len	LM_CMGL_ENTRY_27_PDU
	cmd_seq	M_CMGL_ENTRY_27_PDU
(19) ACI_CMD_IND		
	cmd_len	LM_CMT_PDU_REC_READ
	cmd_seq	M_CMT_PDU_REC_READ
(20) MNSMS_READ_REQ		
	mem_type	MEM_SM
	rec_num	REC_NUM_33
	read_mode	READ_NORMAL
	status	NOT_PRESENT_8BIT
(7) MNSMS_READ_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_33
	rec_next	REC_NUM_40
	rec_max	REC_NUM_MAX
	cause	SMS_NO_ERROR
	rec_status	NUM_0
	status	SMS_RECORD_STO_UNSENT
	sms_sdu	SM7_ABCDEFGHI_01
(21) ACI_CMD_IND		
	cmd_len	LM_CMGL_ENTRY_33_PDU
	cmd_seq	M_CMGL_ENTRY_33_PDU
(22) ACI_CMD_IND		
	cmd_len	LM_CMT_PDU_UNSENT
	cmd_seq	M_CMT_PDU_UNSENT
(23) MNSMS_READ_REQ		
	mem_type	MEM_SM
	rec_num	REC_NUM_40
	read_mode	READ_NORMAL
	status	NOT_PRESENT_8BIT
(8) MNSMS_READ_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_40
	rec_next	SMS_RECORD_NOT_EXIST
	rec_max	REC_NUM_MAX
	cause	SMS_NO_ERROR
	rec_status	NUM_0
	status	SMS_RECORD_REC_UNREAD
	sms_sdu	DELIVER_02
(24) ACI_CMD_IND		
	cmd_len	LM_CMGL_ENTRY_40_PDU
	cmd_seq	M_CMGL_ENTRY_40_PDU

(25)	ACI_CMD_IND		
		cmd_len	LM_CMT_PDU_REC_UNREAD
		cmd_seq	M_CMT_PDU_REC_UNREAD
(26)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History:	11.12.98	SAB	Initial
	14.04.2000	FK	Primitive Change
	14.03.2001	FK	PDU length corrected
	13.08.2001	TLU	MNSMS_INFO_REQ/CNF removed, MNSMS_MO_IND, MNSMS_MT_IND → MNSMS_READ_CNF

3.6.7 ASC406: List Messages, invalid status

Description:

A list of messages is requested. The stat parameter is out of range.

Preamble:

ASC400

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

Parametrization:

Primitive		Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGL_INVALID
		cmd_seq	C_CMGL_INVALID
(2)	ACI_CMD_IND		
		cmd_len	LM_ERROR
		cmd_seq	M_ERROR

History:	11.12.98	SAB	Initial

3.6.8 ASC407: Query List Message format

Description:

The capabilities of list message command are requested.

Preamble:

ASC400

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

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGL_QUERY
		cmd_seq	C_CMGL_QUERY
(2)	ACI_CMD_IND		
		cmd_len	LM_CMGL_CAPABILITIES_PDU
		cmd_seq	M_CMGL_CAPABILITIES_PDU
(3)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History: 11.12.98 SAB Initial

3.6.9 ASC408: List Messages, invalid format

Description:

A list of messages command with invalid syntax is requested.

Preamble:

ASC400

```
    APL                           ACI                            PS
      |                              |                              |
(1)   |         ACI_CMD_REQ          |                              |
      |       (cmd: CMGL=??)         |                              |
      *============================>*                              |
(2)   |         ACI_CMD_IND          |                              |
      |        (msg: ERROR)          |                              |
      *<============================*                              |
(3)   |         ACI_CMD_REQ          |                              |
      |       (cmd: CMEE=2)          |                              |
      *============================>*                              |
(4)   |         ACI_CMD_IND          |                              |
      |          (msg: OK)           |                              |
      *<============================*                              |
(5)   |         ACI_CMD_REQ          |                              |
      |       (cmd: CMGL=??)         |                              |
      *============================>*                              |
(6)   |         ACI_CMD_IND          |                              |
      |      (msg: CMS ERROR)        |                              |
      *<============================*                              |
      |                              |                              |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMGL_QUERY_INVALID
	cmd_seq	C_CMGL_QUERY_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_CMEE_2
	cmd_seq	C_CMEE_2
(4) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(5) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMGL_QUERY_INVALID
	cmd_seq	C_CMGL_QUERY_INVALID
(6) ACI_CMD_IND		
	cmd_len	LM_ERROR
	cmd_seq	M_ERROR

History: 11.12.98 SAB Initial

3.6.10 ASC409: Read Message, received read

Description:

A short message from memory is read succesfully. The message has the status received read.

Preamble:

ASC400

```
    APL                         ACI                         PS
     |                           |                           |
(1)  |        ACI_CMD_REQ        |                           |
     |        (cmd: CMGR)        |                           |
     *==========================>*                           |
(2)  |                           |       MNSMS_READ_REQ      |
     |                           *==========================>*
(3)  |                           |       MNSMS_READ_CNF      |
     |                           *<==========================*
(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
		rec_num	REC_NUM_3
		read_mode	READ_NORMAL
		status	NOT_PRESENT_8BIT
(9)	MNSMS_READ_CNF		
		mem_type	MEM_SM
		rec_num	REC_NUM_3
		rec_next	SMS_RECORD_NOT_EXIST
		rec_max	REC_NUM_MAX
		cause	SMS_NO_ERROR
		rec_status	NUM_0
		status	SMS_RECORD_REC_READ
		sms_sdu	DELIVER_02
(3)	ACI_CMD_IND		
		cmd_len	LM_CMGR_PDU
		cmd_seq	M_CMGR_PDU_REC_READ
(4)	ACI_CMD_IND		
		cmd_len	LM_CMT_PDU_REC_READ
		cmd_seq	M_CMT_PDU_REC_READ
(5)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History:	16.12.98	SAB	Initial
	14.08.2000	TLU	MNSMS_MT_IND → MNSMS_READ_CNF

3.6.11 ASC410: Read Message, received unread

Description:

A short message from memory is read succesfully. The message has the status received unread.

Preamble:

ASC400

```
      APL                          ACI                          PS
       |                            |                            |
(1)    |        ACI_CMD_REQ         |                            |
       |        (cmd: CMGR)         |                            |
       *==========================> *                            |
(2)    |                            |       MNSMS_READ_REQ       |
       |                            *==========================> *
(3)    |                            |       MNSMS_READ_CNF       |
       |                            *<========================== *
(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
		rec_num	REC_NUM_5
		read_mode	READ_NORMAL
		status	NOT_PRESENT_8BIT
(10)	MNSMS_READ_CNF		
		mem_type	MEM_SM
		rec_num	REC_NUM_5
		rec_next	SMS_RECORD_NOT_EXIST
		rec_max	REC_NUM_MAX
		cause	SMS_NO_ERROR
		rec_status	NUM_0
		status	SMS_RECORD_REC_UNREAD
		sms_sdu	DELIVER_02
(3)	ACI_CMD_IND		
		cmd_len	LM_CMGR_PDU
		cmd_seq	M_CMGR_PDU_REC_UNREAD
(4)	ACI_CMD_IND		
		cmd_len	LM_CMT_PDU_REC_UNREAD
		cmd_seq	M_CMT_PDU_REC_UNREAD
(5)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History:	16.12.98	SAB	Initial
	14.08.2000	TLU	MNSMS_MT_IND → MNSMS_READ_CNF

3.6.12 ASC411: Read Message, stored sent

Description:

A short message from memory is read succesfully. The message has the status stored sent.

Preamble:

ASC400

```
    APL                           ACI                              PS
     |                             |                               |
(1)  |        ACI_CMD_REQ          |                               |
     |        (cmd: CMGR)          |                               |
     *==========================>*                                 |
(2)   |                            |       MNSMS_READ_REQ        |
      |                            *===========================> *
(3)   |                            |       MNSMS_READ_CNF        |
      |                            *<=========================== *
(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
	rec_num	REC_NUM_9
	read_mode	READ_NORMAL
	status	NOT_PRESENT_8BIT
(11) MNSMS_READ_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_9
	rec_next	SMS_RECORD_NOT_EXIST
	rec_max	REC_NUM_MAX
	cause	SMS_NO_ERROR
	rec_status	NUM_0
	status	SMS_RECORD_STO_SENT
	sms_sdu	SM7_ABCDEFGHI_03
(3) ACI_CMD_IND		
	cmd_len	LM_CMGR_PDU
	cmd_seq	M_CMGR_PDU_SENT_REL
(4) ACI_CMD_IND		
	cmd_len	LM_CMT_PDU_STO_SENT_REL
	cmd_seq	M_CMT_PDU_STO_SENT_REL
(5) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History:	16.12.98	SAB	Initial
	14.04.2000	FK	Primitive Change
	14.08.2000	TLU	MNSMS_MO_IND → MNSMS_READ_CNF

3.6.13 ASC412: Read Message, stored unsent

Description:

A short message from memory is read succesfully. The message has the status stored unsent.

Variants:

<A>...<C>

Preamble:

ASC400

```
    APL                           ACI                           PS
     |                             |                             |
(1)  |         ACI_CMD_REQ         |                             |
     |         (cmd: CMGR)         |                             |
     *===========================> *                             |
(2)  |                             |       MNSMS_READ_REQ        |
     |                             *===========================> *
(3)  |                             |       MNSMS_READ_CNF        |
     |                             *<=========================== *
(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
	rec_num	REC_NUM_25
	read_mode	READ_NORMAL
	status	NOT_PRESENT_8BIT
(12) MNSMS_READ_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_25
	rec_next	SMS_RECORD_NOT_EXIST
	rec_max	REC_NUM_MAX
	cause	SMS_NO_ERROR
	rec_status	NUM_0
	status	SMS_RECORD_STO_UNSENT
<A>	sms_sdu	SM7_ABCDEFGHI_01
<B>	sms_sdu	SM7_ABCDEFGHI_03
<C>	sms_sdu	SM7_ABCDEFGHI_05

	Primitive	Parameter	Value
(3)	ACI_CMD_IND		
		cmd_len	LM_CMGR_PDU
	<A>	cmd_seq	M_CMGR_PDU_UNSENT
	<B>	cmd_seq	M_CMGR_PDU_UNSENT_REL
	<C>	cmd_seq	M_CMGR_PDU_UNSENT_ABS
(4)	ACI_CMD_IND		
	<A>	cmd_len	LM_CMT_PDU_UNSENT
	<B>	cmd_len	LM_CMT_PDU_STO_UNSENT_REL
	<C>	cmd_len	LM_CMT_PDU_STO_UNSENT_ABS
	<A>	cmd_seq	M_CMT_PDU_UNSENT
	<B>	cmd_seq	M_CMT_PDU_STO_UNSENT_REL
	<C>	cmd_seq	M_CMT_PDU_STO_UNSENT_ABS
(5)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History:	16.12.98	SAB	Initial
	14.04.2000	FK	Primitive Change
	13.03.2001	FK	Variants for different validity period
	14.08.2000	TLU	MNSMS_MO_IND → MNSMS_READ_CNF

3.6.14 ASC413: Read Message, invalid or defect index

Description:

A short message from memory is read with errors.

Preamble:

ASC400

```
    APL                          ACI                          PS
     |                            |                            |
(1)  |        ACI_CMD_REQ         |                            |
     |        (cmd: CMGR)         |                            |
     *===========================>*                            |
(2)  |                            |       MNSMS_READ_REQ       |
     |                            *===========================>*
(3)  |                            |       MNSMS_READ_CNF       |
     |                            *<===========================*
(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
		rec_num	REC_NUM_25
		read_mode	READ_NORMAL
		status	NOT_PRESENT_8BIT

(3)	MNSMS_READ_CNF		
		mem_type	MEM_SM
		rec_num	REC_NUM_25
		rec_next	SMS_RECORD_NOT_EXIST
		rec_max	REC_NUM_MAX
		cause	SIM_CAUSE_ADDR_WRONG
		rec_status	NUM_0
		status	NOT_USED
		sms_sdu	NOT_USED
(4)	ACI_CMD_IND		
		cmd_len	LM_ERROR
		cmd_seq	M_ERROR

History:	16.12.98	SAB	Initial
	14.08.2001	TLU	MNSMS_REPORT_IND → MNSMS_READ_CNF

3.6.15 ASC414: Query Read Message format

Description:

The capabilities of read message command are requested.

Preamble:

ASC400

```
      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

3.6.16 ASC415: Read Messages, invalid format

Description:

A read message command with invalid syntax is requested.

Preamble:

ASC400

```
        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_CMEE_2
	cmd_seq	C_CMEE_2
(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_OPERATION_NOT_ALLOWED
	cmd_seq	M_OPERATION_NOT_ALLOWED

History: 11.12.98 SAB Initial

3.6.17 ASC416: Send Short Message, no validity period

Description:

A short message will be sent successfully.

Preamble:

ASC400

Variants:

<A>...<D>

```
    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_SUBMIT_CNF       |
     |                            *<===========================*
(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
<A>	cmd_seq	C_CMGS_SENDING_NO_VP
<B>	cmd_seq	C_CMGS_SENDING_NO_VP
<C>	cmd_seq	C_CMGS_SENDING_NO_VP_16
<D>	cmd_seq	C_CMGS_SENDING_NO_VP_28
(2) ACI_CMD_IND		
	cmd_len	LM_EDIT
	cmd_seq	M_EDIT

(3) ACI_CMD_REQ

	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LM_CMT_PDU_UNSENT_IN
<B>	cmd_len	LM_CMT_PDU_UNSENT_NO_SCA_IN
<C>	cmd_len	LM_CMT_PDU_UNSENT_NO_SCA_IN_1
<D>	cmd_len	LM_CMT_PDU_UNSENT_NO_SCA_IN_2
<A>	cmd_seq	M_CMT_PDU_UNSENT_IN
<B>	cmd_seq	M_CMT_PDU_UNSENT_NO_SCA_IN
<C>	cmd_seq	M_CMT_PDU_UNSENT_NO_SCA_IN_1
<D>	cmd_seq	M_CMT_PDU_UNSENT_NO_SCA_IN_2

(4) MNSMS_SUBMIT_REQ

	mem_type	MEM_SM
	rec_num	SMS_RECORD_NOT_EXIST
	condx	SMS_CONDX_OVR_NON
	modify	SMS_MODIFY_NON
<A>	sms_sdu	SM7_ABCDEFGHI_01
<B>	sms_sdu	SM7_ABCDEFGHI_02
<C>	sms_sdu	SM7_ABC_01
<D>	sms_sdu	SM7_ABC_17_01

(5) MNSMS_SUBMIT_CNF

mem_type	MEM_SM
rec_num	SMS_RECORD_NOT_EXIST
cause	SMS_NO_ERROR
tp_mr	MSG_REF_01
sms_sdu	SUBMIT_REPORT_ACK_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
	15.08.2000	FK	Variants for different sizes of SM text
	14.08.2001	TLU	MNSMS_REPORT_IND → MNSMS_SUBMIT_CNF

3.6.18 ASC417: Send Short Message, relative validity period

Description:

A short message will be sent successfully.

Preamble:

ASC400

Variants:

<A>...<B>

```
    APL                           ACI                           PS
     |                             |                             |
(1)  |         ACI_CMD_REQ         |                             |
     |         (cmd: CMGS)         |                             |
     *==========================>*                             |
(2)  |         ACI_CMD_IND         |                             |
     |           (prompt)          |                             |
     *<==========================*                             |
(2)   |         ACI_CMD_REQ         |                             |
      |       (cmd: CMGS edit)      |                             |
      *===========================> *                             |
(3)   |                             |      MNSMS_SUBMIT_REQ       |
      |                             *===========================> *
(4)   |                             |      MNSMS_SUBMIT_CNF       |
      |                             *<=========================== *
(5)   |         ACI_CMD_IND         |                             |
      |         (msg: CMGS)         |                             |
      *<=========================== *                             |
(6)   |         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_EDIT
	cmd_seq	M_EDIT
(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		
	mem_type	MEM_SM
	rec_num	SMS_RECORD_NOT_EXIST
	condx	SMS_CONDX_OVR_NON
	modify	SMS_MODIFY_NON
<A>	sms_sdu	SM7_ABCDEFGHI_03
<B>	sms_sdu	SM7_ABCDEFGHI_04
(5) MNSMS_SUBMIT_CNF		
	mem_type	MEM_SM
	rec_num	SMS_RECORD_NOT_EXIST
	cause	SMS_NO_ERROR
	tp_mr	MSG_REF_01
	sms_sdu	SUBMIT_REPORT_ACK_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
	14.08.2001	TLU	MNSMS_REPORT_IND → MNSMS_SUBMIT_CNF

3.6.19 ASC418: Send Short Message, absolute validity period

Description:

A short message will be sent successfully.

Preamble:

ASC400

Variants:

<A>...<B>

```
    APL                          ACI                          PS
     |                            |                            |
(1)  |        ACI_CMD_REQ         |                            |
     |        (cmd: CMGS)         |                            |
     *===========================>*                            |
(2)  |        ACI_CMD_IND         |                            |
     |         (prompt)           |                            |
     *<===========================*                            |
(2)  |        ACI_CMD_REQ         |                            |
     |     (cmd: CMGS edit)       |                            |
     *===========================>*                            |
(3)  |                            |      MNSMS_SUBMIT_REQ      |
     |                            *===========================>*
(4)  |                            |      MNSMS_SUBMIT_CNF      |
     |                            *<===========================*
(5)  |        ACI_CMD_IND         |                            |
     |        (msg: CMGS)         |                            |
     *<===========================*                            |
(6)  |        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_EDIT
	cmd_seq	M_EDIT
(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		
	mem_type	MEM_SM
	rec_num	SMS_RECORD_NOT_EXIST
	condx	SMS_CONDX_OVR_NON
	modify	SMS_MODIFY_NON
<A>	sms_sdu	SM7_ABCDEFGHI_05
<B>	sms_sdu	SM7_ABCDEFGHI_06
(5) MNSMS_SUBMIT_CNF		
	mem_type	MEM_SM
	rec_num	SMS_RECORD_NOT_EXIST
	cause	SMS_NO_ERROR
	tp_mr	MSG_REF_01
	sms_sdu	SUBMIT_REPORT_ACK_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
	14.08.2001	TLU	MNSMS_REPORT_IND → MNSMS_SUBMIT_CNF

3.6.20 ASC419: Query Send Message format

Description:

The capabilities of send message command are requested.

Preamble:

ASC400

```
     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_QUERY
	cmd_seq	C_CMGS_QUERY
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History:	11.12.98	SAB	Initial

3.6.21 ASC420: Send Messages, invalid format

Description:

A send message command with invalid syntax is requested.

Preamble:

ASC400

```
    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_CMEE_2
	cmd_seq	C_CMEE_2
(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_OPERATION_NOT_ALLOWED
	cmd_seq	M_OPERATION_NOT_ALLOWED

History: 11.12.98 SAB Initial

3.6.22 ASC421: Send Command, no destination address, no command data

Description:

A command message will be sent successfully.

Preamble:

ASC400

```
        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_COMMAND_CNF      |
         |                             *<===========================*
(6)      |                             |      MNSMS_STATUS_IND      |
         |                             *<===========================*
(7)      |        ACI_CMD_IND          |                            |
         |        (msg: CMGC)          |                            |
         *<===========================*                            |
(8)      |        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_EDIT
	cmd_seq	M_EDIT
(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_sdu	COMMAND_01
(5) MNSMS_COMMAND_CNF		
	cause	SMS_NO_ERROR
	tp_mr	MSG_REF_02
	sms_sdu	SUBMIT_REPORT_ACK_01

(6) MNSMS_STATUS_IND		
	sms_sdu	STATUS_REPORT_02
(7) ACI_CMD_IND		
	cmd_len	LM_CMGC_MSG_REF_2
	cmd_seq	M_CMGC_MSG_REF_2
(8) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History:	15.12.98	SAB	Initial
	14.08.2001	TLU	MNSMS_REPORT_IND removed, MNSMS_COMMAND_CNF and MNSMS_STATUS_IND added

3.6.23 ASC422: Send Command, no destination address, command data

Description:

A command message will be sent successfully.

Preamble:

ASC400

```
    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_COMMAND_CNF      |
     |                          *<===========================*
(6)  |                          |      MNSMS_STATUS_IND      |
     |                          *<===========================*
(7)  |        ACI_CMD_IND       |                            |
     |        (msg: CMGC)       |                            |
     *<=========================*                            |
(8)  |        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_EDIT
	cmd_seq	M_EDIT

(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_sdu	COMMAND_04
(5) MNSMS_COMMAND_CNF		
	cause	SMS_NO_ERROR
	tp_mr	MSG_REF_02
	sms_sdu	SUBMIT_REPORT_ACK_01
(6) MNSMS_STATUS_IND		
	sms_sdu	STATUS_REPORT_02
(7) ACI_CMD_IND		
	cmd_len	LM_CMGC_MSG_REF_2
	cmd_seq	M_CMGC_MSG_REF_2
(8) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History:	15.12.98	SAB	Initial
	14.08.2001	TLU	MNSMS_REPORT_IND removed, MNSMS_COMMAND_CNF and MNSMS_STATUS_IND added

3.6.24 ASC423: Send Command, destination address, no command data

Description:

A command message will be sent successfully.

Preamble:

ASC400

```
      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_COMMAND_CNF      |
       |                            *<===========================*
(6)    |                            |      MNSMS_STATUS_IND      |
       |                            *<===========================*
(7)    |        ACI_CMD_IND         |                            |
       |        (msg: CMGC)         |                            |
       *<===========================*                            |
(8)    |        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_EDIT
		cmd_seq	M_EDIT
(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_sdu	COMMAND_03
(5)	MNSMS_COMMAND_CNF		
		cause	SMS_NO_ERROR
		tp_mr	MSG_REF_02
		sms_sdu	SUBMIT_REPORT_ACK_01
(6)	MNSMS_STATUS_IND		
		sms_sdu	STATUS_REPORT_02
(7)	ACI_CMD_IND		
		cmd_len	LM_CMGC_MSG_REF_2
		cmd_seq	M_CMGC_MSG_REF_2
(8)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History:	15.12.98	SAB	Initial
	13.08.2001	TLU	MNSMS_REPORT_IND removed, MNSMS_COMMAND_CNF and MNSMS_STATUS_IND added

3.6.25 ASC424: Send Command, destination address, command data

Description:

A command message will be sent successfully.

Preamble:

ASC400

```
      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_COMMAND_CNF      |
    |                           *<============================*
(6) |                           |       MNSMS_STATUS_IND       |
    |                           *<============================*
(7) |        ACI_CMD_IND        |                              |
    |        (msg: CMGC)        |                              |
    *<==========================*                              |
(8) |        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_EDIT
		cmd_seq	M_EDIT
(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_sdu	COMMAND_05
(5)	MNSMS_COMMAND_CNF		
		cause	SMS_NO_ERROR
		tp_mr	MSG_REF_02
		sms_sdu	SUBMIT_REPORT_ACK_01
(6)	MNSMS_STATUS_IND		
		sms_sdu	STATUS_REPORT_02
(7)	ACI_CMD_IND		
		cmd_len	LM_CMGC_MSG_REF_2
		cmd_seq	M_CMGC_MSG_REF_2
(8)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History:	15.12.98	SAB	Initial
	13.08.2001	TLU	MNSMS_REPORT_IND removed, MNSMS_COMMAND_CNF and MNSMS_STATUS_IND added

3.6.26 ASC425: Query Send Command format

Description:

The capabilities of send command are requested.

Preamble:

ASC400

```
    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_QUERY
	cmd_seq	C_CMGC_QUERY
(2) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 11.12.98 SAB Initial

3.6.27 ASC426: Send Command, invalid format

Description:

A send message command with invalid syntax is requested.

Preamble:

ASC400

```
    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_CMEE_2
		cmd_seq	C_CMEE_2
(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_OPERATION_NOT_ALLOWED
		cmd_seq	M_OPERATION_NOT_ALLOWED

History: 11.12.98 SAB Initial

3.6.28 ASC427: 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:

ASC400

```
     APL                         ACI                          PS
      |                           |                            |
(1)   |         ACI_CMD_REQ       |                            |
      |        (cmd: CMGW)        |                            |
      *==========================>*                            |
(2)   |         ACI_CMD_IND       |                            |
      |          (prompt)         |                            |
      *<==========================*                            |
(2)   |         ACI_CMD_REQ       |                            |
      |      (cmd: CMGW edit)     |                            |
      *==========================>*                            |
(3)   |                           |       MNSMS_STORE_REQ      |
      |                           *==========================>*
```

```
(4)    |                             |       MNSMS_STORE_CNF        |
       |                             *<============================ *
(5)    |         ACI_CMD_IND         |                              |
       |         (msg: CMGW)         |                              |
       *<============================*                              |
(6)    |         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_EDIT
	cmd_seq	M_EDIT
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LM_CMT_PDU_UNSENT_IN
	cmd_seq	M_CMT_PDU_UNSENT_IN
(4) MNSMS_STORE_REQ		
	mem_type	MEM_SM
	rec_num	SMS_RECORD_NOT_EXIST
	condx	SMS_CONDX_OVR_NON
	status	SMS_RECORD_STO_UNSENT
	sms_sdu	SM7_ABCDEFGHI_01
(13) MNSMS_STORE_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_01
	cause	SMS_NO_ERROR
(5) ACI_CMD_IND		
	cmd_len	LM_CMGW_REC_NUM_1
	cmd_seq	M_CMGW_REC_NUM_1
(6) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History:	11.12.98	SAB	Initial
	14.04.2000	FK	Primitive Change
	14.08.2001	TLU	MNSMS_REPORT_IND → MNSMS_STORE_CNF

3.6.29 ASC428: 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:

ASC400

```
    APL                           ACI                           PS
     |                             |                             |
(1)  |         ACI_CMD_REQ         |                             |
     |         (cmd: CMGW)         |                             |
     *===========================> *                             |
(2)  |         ACI_CMD_IND         |                             |
     |          (prompt)           |                             |
     *<=========================== *                             |
(2)  |         ACI_CMD_REQ         |                             |
     |      (cmd: CMGW edit)       |                             |
     *===========================> *                             |
(3)  |                             |       MNSMS_STORE_REQ       |
     |                             *===========================> *
(4)  |                             |       MNSMS_STORE_CNF       |
     |                             *<=========================== *
(5)  |         ACI_CMD_IND         |                             |
     |         (msg: CMGW)         |                             |
     *<=========================== *                             |
(6)  |         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_EDIT
	cmd_seq	M_EDIT
(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	SMS_RECORD_NOT_EXIST
	condx	SMS_CONDX_OVR_NON
	status	SMS_RECORD_STO_UNSENT
	sms_sdu	SM7_ABCDEFGHI_03

(14) MNSMS_STORE_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_01
	cause	SMS_NO_ERROR
(5) ACI_CMD_IND		
	cmd_len	LM_CMGW_REC_NUM_1
	cmd_seq	M_CMGW_REC_NUM_1
(6) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History:	11.12.98	SAB	Initial
	14.04.2000	FK	Primitive Change
	14.08.2001	TLU	MNSMS_REPORT_IND → MNSMS_STORE_CNF

3.6.30 ASC429: 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:

ASC400

```
    APL                          ACI                          PS
     |                            |                            |
(1)  |         ACI_CMD_REQ        |                            |
     |         (cmd: CMGW)        |                            |
     *==========================> *                            |
(2)  |         ACI_CMD_IND        |                            |
     |          (prompt)          |                            |
     *<========================== *                            |
(2)  |         ACI_CMD_REQ        |                            |
     |      (cmd: CMGW edit)      |                            |
     *==========================> *                            |
(3)  |                            |       MNSMS_STORE_REQ      |
     |                            *==========================> *
(4)  |                            |       MNSMS_STORE_CNF      |
     |                            *<========================== *
(5)  |         ACI_CMD_IND        |                            |
     |         (msg: CMGW)        |                            |
     *<========================== *                            |
(6)  |         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_EDIT
	cmd_seq	M_EDIT

(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	SMS_RECORD_NOT_EXIST
	condx	SMS_CONDX_OVR_NON
	status	SMS_RECORD_STO_UNSENT
	sms_sdu	SM7_ABCDEFGHI_05

(15) MNSMS_STORE_CNF

	mem_type	MEM_SM
	rec_num	REC_NUM_01
	cause	SMS_NO_ERROR

(5) ACI_CMD_IND

	cmd_len	LM_CMGW_REC_NUM_1
	cmd_seq	M_CMGW_REC_NUM_1

(6) ACI_CMD_IND

	cmd_len	LM_OK
	cmd_seq	M_OK

History:	11.12.98	SAB	Initial
	14.04.2000	FK	Primitive Change
	14.08.2001	TLU	MNSMS_REPORT_IND → MNSMS_STORE_CNF

3.6.31 ASC430: 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.

Variants:

<A>...<E>

Preamble:

ASC400

```
    APL                           ACI                            PS
     |                             |                              |
(1)  |         ACI_CMD_REQ         |                              |
     |         (cmd: CMGW)         |                              |
     *===========================> *                              |
(2)  |         ACI_CMD_IND         |                              |
     |           (prompt)          |                              |
     *<=========================== *                              |
(2)  |         ACI_CMD_REQ         |                              |
     |      (cmd: CMGW edit)       |                              |
     *===========================> *                              |
(3)  |                             |        MNSMS_STORE_REQ       |
     |                             *===========================>  *
(4)  |                             |        MNSMS_STORE_CNF       |
     |                             *<===========================  *
```

```
(5)    |         ACI_CMD_IND          |                              |
       |         (msg: CMGW)          |                              |
       *<=============================*                              |
(6)    |         ACI_CMD_IND          |                              |
       |           (msg: OK)          |                              |
       *<=============================*                              |
       |                              |                              |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	
	LC_CMGW_S_STO_UNS_NO_VP_PDU	
<A>	cmd_seq	C_CMGW_S_STO_UNS_NO_VP_PDU
<B>	cmd_seq	C_CMGW_S_STO_UNS_NO_VP_PDU
<C>	cmd_seq	C_CMGW_STO_UNS_NO_VP_16
<D>	cmd_seq	C_CMGW_STO_UNS_NO_VP_28
<E>	cmd_seq	C_CMGW_STO_UNS_MS_37
(2) ACI_CMD_IND		
	cmd_len	LM_EDIT
	cmd_seq	M_EDIT
(3) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LM_CMT_PDU_UNSENT_IN
<B>	cmd_len	LM_CMT_PDU_UNSENT_NO_SCA_IN
<C>	cmd_len	LM_CMT_PDU_UNSENT_NO_SCA_IN_1
<D>	cmd_len	LM_CMT_PDU_UNSENT_NO_SCA_IN_2
<E>	cmd_len	LM_CMT_PDU_UNSENT_NO_SCA_MS_IN
<A>	cmd_seq	M_CMT_PDU_UNSENT_IN
<B>	cmd_seq	M_CMT_PDU_UNSENT_NO_SCA_IN
<C>	cmd_seq	M_CMT_PDU_UNSENT_NO_SCA_IN_1
<D>	cmd_seq	M_CMT_PDU_UNSENT_NO_SCA_IN_2
<E>	cmd_seq	M_CMT_PDU_UNSENT_NO_SCA_MS_IN
(4) MNSMS_STORE_REQ		
	mem_type	MEM_SM
	rec_num	SMS_RECORD_NOT_EXIST
	condx	SMS_CONDX_OVR_NON
	status	SMS_RECORD_STO_UNSENT
<A>	sms_sdu	SM7_ABCDEFGHI_01
<B>	sms_sdu	SM7_ABCDEFGHI_02
<C>	sms_sdu	SM7_ABC_01
<D>	sms_sdu	SM7_ABC_17_01
<E>	sms_sdu	SM7_ABC_MS_01
(16) MNSMS_STORE_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_01
	cause	SMS_NO_ERROR
(5) ACI_CMD_IND		
	cmd_len	LM_CMGW_REC_NUM_1
	cmd_seq	M_CMGW_REC_NUM_1

(6) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History:	11.12.98	SAB	Initial
	14.04.2000	FK	Primitive Change
	14.08.2001	TLU	MNSMS_REPORT_IND → MNSMS_STORE_CNF

3.6.32 ASC431: Read a previously stored unsent message from memory

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.

Variants:

<A>...<E>

Preamble:

<A>	ASC430A
<B>	ASC430B
<C>	ASC430C
<D>	ASC430D
<E>	ASC430E

```
      APL                          ACI                          PS
       |                            |                            |
(1)    |         ACI_CMD_REQ        |                            |
       |         (cmd: CMGR)        |                            |
       *===========================>*                            |
(2)    |                            |       MNSMS_READ_REQ       |
       |                            *===========================>*
(3)    |                            |       MNSMS_READ_CNF       |
       |                            *<===========================*
(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_1
	cmd_seq	C_CMGR_SIM_1
(2) MNSMS_READ_REQ		
	mem_type	MEM_SM
	rec_num	REC_NUM_01
	read_mode	READ_NORMAL
	status	NOT_PRESENT_8BIT

(3) MNSMS_READ_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_01
	rec_next	SMS_RECORD_NOT_EXIST
	rec_max	REC_NUM_MAX
	cause	SMS_NO_ERROR
	rec_status	NUM_0
	status	SMS_RECORD_STO_UNSENT
<A>	sms_sdu	SM7_ABCDEFGHI_01
<B>	sms_sdu	SM7_ABCDEFGHI_02
<C>	sms_sdu	SM7_ABC_01
<D>	sms_sdu	SM7_ABC_17_01
<E>	sms_sdu	SM7_ABC_MS_01
(4) ACI_CMD_IND		
	cmd_len	LM_CMGR_ENTRY_PDU
<A>	cmd_seq	M_CMGR_ENTRY_PDU_ABCDEFGHI
<B>	cmd_seq	M_CMGR_ENTRY_PDU_ABCDEFGHI
<C>	cmd_seq	M_CMGR_ENTRY_PDU_ABC
<D>	cmd_seq	M_CMGR_ENTRY_PDU_ABC_17
<E>	cmd_seq	M_CMGR_ENTRY_PDU_ABC_MS
(5) ACI_CMD_IND		
<A>	cmd_len	LM_CMT_PDU_UNSENT
<B>	cmd_len	LM_CMT_PDU_UNSENT_NO_SCA
<C>	cmd_len	LM_CMT_PDU_UNSENT_NO_SCA_1
<D>	cmd_len	LM_CMT_PDU_UNSENT_NO_SCA_2
<E>	cmd_len LM_CMT_PDU_UNSENT_NO_SCA_MS	
<A>	cmd_seq	M_CMT_PDU_UNSENT
<B>	cmd_seq	M_CMT_PDU_UNSENT_NO_SCA
<C>	cmd_seq	M_CMT_PDU_UNSENT_NO_SCA_1
<D>	cmd_seq	M_CMT_PDU_UNSENT_NO_SCA_2
<E>	cmd_seq	M_CMT_PDU_UNSENT_NO_SCA_MS
(6) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History:	09.03.2001	FK	Initial
	14.08.2001	TLU	MNSMS_MO_IND → MNSMS_READ_CNF

3.6.33 ASC440: Send Message From Memory

Description:

A short message from memory is sent successfully. The SCA with the stored message has to be used.

Preamble:

ASC400

```
    APL                           ACI                           PS
     |                             |                             |
(1)  |         ACI_CMD_REQ         |                             |
     |         (cmd: CMSS)         |                             |
     *===========================> *                             |
(2)  |                             |      MNSMS_SUBMIT_REQ       |
     |                             *===========================> *
(3)  |                             |      MNSMS_SUBMIT_CNF       |
     |                             *<=========================== *
```

```
(4)    |         ACI_CMD_IND          |                            |
       |         (msg: CMSS)          |                            |
       *<============================*                            |
(5)    |         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_SUBMIT_REQ		
	mem_type	MEM_SM
	rec_num	REC_NUM_02
	condx	SMS_CONDX_OVR_ANY
	modify	SMS_MODIFY_SCA
	sms_sdu	NOT_USED
(3) MNSMS_SUBMIT_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_02
	cause	SMS_NO_ERROR
	tp_mr	MSG_REF_02
	sms_sdu	SUBMIT_REPORT_ACK_01
(4) ACI_CMD_IND		
	cmd_len	LM_CMSS_MSG_REF_2
	cmd_seq	M_CMSS_MSG_REF_2
(5) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History:	16.12.98	SAB	Initial
	14.04.2000	FK	Primitive Change
	14.08.2001	TLU	MNSMS_MO_IND → MNSMS_READ_CNF MNSMS_REPORT_IND → MNSMS_SUBMIT_CNF

3.7 Concatenated SMS (ASC500 – ASC599) the 500s all fail !!!: to be analysed

3.7.1 ASC500: Setup SMS Configuration with Power on

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. In SMS_STATE_INITIALISING state four MNSMS_MESSAGE_IND are reported to the ACI.

Preamble:

ASC000

```
    APL                           ACI                          PS
     |                             |                            |
COMMAND (MMI CONFIG CONC_SMS_TST)
```

```
(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)   |                           |     MNSMS_MESSAGE_IND      |
      |                           *<===========================*
(10)  |                           |     MNSMS_MESSAGE_IND      |
      |                           *<===========================*
(11)  |                           |     MNSMS_MESSAGE_IND      |
      |                           *<===========================*
(12)  |                           |     MNSMS_MESSAGE_IND      |
      |                           *<===========================*
(13)  |                           |      MNSMS_REPORT_IND      |
      |                           *<===========================*
(14)  |        ACI_CMD_IND        |                            |
      |     (msg: conc. msg)      |                            |
      *<==========================*                            |
      |                           |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CFUN_1
	cmd_seq	C_CFUN_1
(2) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	NOT_USED
	stk_pro_file	NOT_USED
(3) SIM_ACTIVATE_CNF		
	cause	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
	cause	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		
	state	SMS_STATE_INITIALISING
(9) MNSMS_MESSAGE_IND	mem_type	MEM_SM
	rec_num	NUM_1
	rec_max	REC_NUM_MAX
	status	SMS_RECORD_STO_UNSENT
	sms_sdu	SUBMIT_CONC_02_1
(10) MNSMS_MESSAGE_IND	mem_type	MEM_SM
	rec_num	NUM_2
	rec_max	REC_NUM_MAX
	status	SMS_RECORD_STO_UNSENT
	sms_sdu	SUBMIT_CONC_02_2
(11) MNSMS_MESSAGE_IND	mem_type	MEM_SM
	rec_num	NUM_4
	rec_max	REC_NUM_MAX
	status	SMS_RECORD_STO_UNSENT
	sms_sdu	SUBMIT_CONC_02_3
(12) MNSMS_MESSAGE_IND	mem_type	MEM_SM
	rec_num	NUM_5
	rec_max	REC_NUM_MAX
	status	SMS_RECORD_STO_UNSENT
	sms_sdu	SUBMIT_CONC_02_4
(13) MNSMS_REPORT_IND		
	state	SMS_STATE_READY
(14) ACI_CMD_IND		
	cmd_len	LM_CMT_ABCDEFGHIJKLMN_4
	cmd_seq	M_CMT_ABCDEFGHIJKLMN_4

History: 04.02.2002 TLU Initial

3.7.2 ASC501: Setup SMS Configuration with Power on with incomplete Conc. SMS

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. In SMS_STATE_INITIALISING state three MNSMS_MESSAGE_IND are reported to the ACI. These three messages are parts of two incomplete concatenated SMS and will be deleted.

Preamble:

ASC000

```
    APL                          ACI                          PS
     |                            |                            |
COMMAND (MMI CONFIG CONC_SMS_TST)
(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)  |                            |     MNSMS_MESSAGE_IND      |
     |                            *<===========================*
(10) |                            |     MNSMS_MESSAGE_IND      |
     |                            *<===========================*
(11) |                            |     MNSMS_MESSAGE_IND      |
     |                            *<===========================*
(12) |                            |      MNSMS_REPORT_IND      |
     |                            *<===========================*
(13) |                            |      MNSMS_DELETE_REQ      |
     |                            *===========================>*
(14) |                            |      MNSMS_DELETE_CNF      |
     |                            *<===========================*
(15) |                            |      MNSMS_DELETE_REQ      |
     |                            *===========================>*
(16) |                            |      MNSMS_DELETE_CNF      |
     |                            *<===========================*
(17) |                            |      MNSMS_DELETE_REQ      |
     |                            *===========================>*
(18) |                            |      MNSMS_DELETE_CNF      |
     |                            *<===========================*
     |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(17) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CFUN_1
	cmd_seq	C_CFUN_1
(18) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	NOT_USED
	stk_pro_file	NOT_USED
(19) SIM_ACTIVATE_CNF		
	cause	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
(20) 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
(21) SIM_READ_REQ		
	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_ECC
	length	NOT_PRESENT_8BIT
	max_length	NUM_0
(22) SIM_READ_CNF		
	datafield	SIM_ECC
	cause	SMS_NO_ERROR
	length	NUM_12
	trans_data	A_ECC_FIELD
(23) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK
(24) MNSMS_REPORT_IND		
	state	SMS_STATE_INITIALISING
(25) MNSMS_MESSAGE_IND	mem_type	MEM_SM
	rec_num	NUM_1
	rec_max	REC_NUM_MAX
	status	SMS_RECORD_REC_UNREAD
	sms_sdu	DELIVER_CONC_02_1

(26) MNSMS_MESSAGE_IND	mem_type	MEM_SM
	rec_num	NUM_2
	rec_max	REC_NUM_MAX
	status	SMS_RECORD_STO_UNSENT
	sms_sdu	SUBMIT_CONC_02_1
(27) MNSMS_MESSAGE_IND	mem_type	MEM_SM
	rec_num	NUM_3
	rec_max	REC_NUM_MAX
	status	SMS_RECORD_STO_UNSENT
	sms_sdu	SUBMIT_CONC_02_2
(28) MNSMS_REPORT_IND		
	state	SMS_STATE_READY
(29) MNSMS_DELETE_REQ		
	mem_type	MEM_SM
	rec_num	REC_NUM_01
(30) MNSMS_DELETE_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_01
	cause	SMS_NO_ERROR
(31) MNSMS_DELETE_REQ		
	mem_type	MEM_SM
	rec_num	REC_NUM_02
(32) MNSMS_DELETE_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_02
	cause	SMS_NO_ERROR
(33) MNSMS_DELETE_REQ		
	mem_type	MEM_SM
	rec_num	REC_NUM_03
(34) MNSMS_DELETE_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_03
	cause	SMS_NO_ERROR

History: 11.02.2002 TLU Initial

3.7.3 ASC510: Receiving a message in memory

Description:

A short message will be successfully received in memory.

Preamble:

ASC206

```
    APL                         ACI                         PS
     |                           |                           |
COMMAND (MMI CONFIG CONC_SMS_TST)
(1)  |                           |      MNSMS_MESSAGE_IND    |
     |                           *<==========================*
(2)  |                           |      MNSMS_MESSAGE_IND    |
     |                           *<==========================*
```

```
(3)    |                          |      MNSMS_MESSAGE_IND      |
       |                          *<===========================*
(4)    |        ACI_CMD_IND       |                             |
       |      (msg: conc. msg)    |                             |
       *<=========================*                             |
       |                          |                             |
```

Parametrization:

Primitive	Parameter	Value
(1) MNSMS_MESSAGE_IND		
	mem_type	MEM_ME
	rec_num	REC_NUM_01
	rec_max	REC_NUM_MAX
	status	SMS_RECORD_REC_UNREAD
	sms_sdu	DELIVER_CONC_01_2
(2) MNSMS_MESSAGE_IND		
	mem_type	MEM_ME
	rec_num	REC_NUM_02
	rec_max	REC_NUM_MAX
	status	SMS_RECORD_REC_UNREAD
	sms_sdu	DELIVER_CONC_01_3
(3) MNSMS_MESSAGE_IND		
	mem_type	MEM_ME
	rec_num	REC_NUM_03
	rec_max	REC_NUM_MAX
	status	SMS_RECORD_REC_UNREAD
	sms_sdu	DELIVER_CONC_01_1
(4) ACI_CMD_IND		
	cmd_len	LM_CMT_ABCDEFGHIJKLMN_3
	cmd_seq	M_CMT_ABCDEFGHIJKLMN_3

History: 04.12.2001 TLU Initial

3.7.4 ASC511: Receiving a message directly

Description:

Two concatenated messages will successfully received. The received segments are not in sequence.

Preamble:

ASC206

```
    APL                          ACI                          PS
     |                            |                            |
COMMAND (MMI CONFIG CONC_SMS_TST)
(1)    |                          |      MNSMS_MESSAGE_IND      |
       |                          *<===========================*
(2)    |                          |      MNSMS_MESSAGE_IND      |
       |                          *<===========================*
(3)    |                          |      MNSMS_MESSAGE_IND      |
       |                          *<===========================*
(4)    |                          |      MNSMS_MESSAGE_IND      |
       |                          *<===========================*
(5)    |        ACI_CMD_IND       |                             |
       |     (msg: conc. msg 1)   |                             |
       *<=========================*                             |
(6)   |                             |     MNSMS_MESSAGE_IND      |
       |                             *<===========================*
(7)   |         ACI_CMD_IND         |                            |
       |     (msg: conc. msg 2)      |                            |
       *<===========================*                             |
       |                             |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	MNSMS_MESSAGE_IND		
		mem_type	MEM_ME
		rec_num	SMS_RECORD_NOT_EXIST
		rec_max	REC_NUM_MAX
		status	SMS_RECORD_REC_UNREAD
		sms_sdu	DELIVER_CONC_01_2
(2)	MNSMS_MESSAGE_IND		
		mem_type	MEM_ME
		rec_num	SMS_RECORD_NOT_EXIST
		rec_max	REC_NUM_MAX
		status	SMS_RECORD_REC_UNREAD
		sms_sdu	DELIVER_CONC_01_3
(3)	MNSMS_MESSAGE_IND		
		mem_type	MEM_ME
		rec_num	SMS_RECORD_NOT_EXIST
		rec_max	REC_NUM_MAX
		status	SMS_RECORD_REC_UNREAD
		sms_sdu	DELIVER_CONC_02_1
(4)	MNSMS_MESSAGE_IND		
		mem_type	MEM_ME
		rec_num	SMS_RECORD_NOT_EXIST
		rec_max	REC_NUM_MAX
		status	SMS_RECORD_REC_UNREAD
		sms_sdu	DELIVER_CONC_01_1
(5)	ACI_CMD_IND		
		cmd_len	LM_CMT_ABCDEFGHIJKLMN_3
		cmd_seq	M_CMT_ABCDEFGHIJKLMN_3
(6)	MNSMS_MESSAGE_IND		
		mem_type	MEM_ME
		rec_num	SMS_RECORD_NOT_EXIST
		rec_max	REC_NUM_MAX
		status	SMS_RECORD_REC_UNREAD
		sms_sdu	DELIVER_CONC_02_2
(7)	ACI_CMD_IND		
		cmd_len	LM_CMT_HALLOHALLOHALL_2
		cmd_seq	M_CMT_HALLOHALLOHALL_2

History: 04.12.2001 TLU Initial

3.7.5 ASC512: Sending a stored message

Description:

A short message will be successfully sent from memory.

Preamble:

ASC510

```
    APL                        ACI                        PS
     |                          |                          |
COMMAND (MMI CONFIG CONC_SMS_TST)
(1)  |        ACI_CMD_REQ       |                          |
     |        (cmd: CMSS)       |                          |
     *========================> *                          |
(2)  |                          |     MNSMS_SUBMIT_REQ     |
     |                          *========================> *
(3)  |                          |     MNSMS_SUBMIT_CNF     |
     |                          * <======================= *
(4)  |                          |     MNSMS_SUBMIT_REQ     |
     |                          *========================> *
(5)  |                          |     MNSMS_SUBMIT_CNF     |
     |                          * <======================= *
(6)  |                          |     MNSMS_SUBMIT_REQ     |
     |                          *========================> *
(7)  |                          |     MNSMS_SUBMIT_CNF     |
     |                          * <======================= *
(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_CMSS_SIM_1
		cmd_seq	C_CMSS_SIM_3
(2)	MNSMS_SUBMIT_REQ		
		mem_type	MEM_SM
		rec_num	REC_NUM_03
		condx	SMS_CONDX_OVR_ANY
		modify	SMS_MODIFY_SCA
		sms_sdu	NOT_USED
(3)	MNSMS_SUBMIT_CNF		
		mem_type	MEM_SM
		rec_num	REC_NUM_03
		cause	SMS_NO_ERROR
		tp_mr	MSG_REF_01
		sms_sdu	SUBMIT_REPORT_ACK_01

(4) MNSMS_SUBMIT_REQ

mem_type	MEM_SM
rec_num	REC_NUM_01
condx	SMS_CONDX_OVR_ANY
modify	SMS_MODIFY_SCA
sms_sdu	NOT_USED

(5) MNSMS_SUBMIT_CNF

mem_type	MEM_SM
rec_num	REC_NUM_01
cause	SMS_NO_ERROR
tp_mr	MSG_REF_02
sms_sdu	SUBMIT_REPORT_ACK_01

(6) MNSMS_SUBMIT_REQ

mem_type	MEM_SM
rec_num	REC_NUM_02
condx	SMS_CONDX_OVR_ANY
modify	SMS_MODIFY_SCA
sms_sdu	NOT_USED

(7) MNSMS_SUBMIT_CNF

mem_type	MEM_SM
rec_num	REC_NUM_02
cause	SMS_NO_ERROR
tp_mr	MSG_REF_03
sms_sdu	SUBMIT_REPORT_ACK_01

(8) ACI_CMD_IND

cmd_len	LM_CMSS_REC_NUM_1_3
cmd_seq	M_CMSS_REC_NUM_1_3

(9) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History: 04.12.2001 TLU Initial

3.7.6 ASC513: Sending a message directly

Description:

A short message will be successfully sent directly.

Preamble:

ASC201A

```
    APL                        ACI                          PS
     |                          |                           |
COMMAND (MMI CONFIG CONC_SMS_TST)
(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_SUBMIT_CNF       |
      |                           *<===========================*
(6)   |                           |      MNSMS_SUBMIT_REQ       |
      |                           *===========================>*
(7)   |                           |      MNSMS_SUBMIT_CNF       |
      |                           *<===========================*
(8)   |                           |      MNSMS_SUBMIT_REQ       |
      |                           *===========================>*
(9)   |                           |      MNSMS_SUBMIT_CNF       |
      |                           *<===========================*
(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_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_ABCDEFGHIJKLMN_3
		cmd_seq	C_CMGS_ABCDEFGHIJKLMN_3
(4)	MNSMS_SUBMIT_REQ		
		mem_type	MEM_SM
		rec_num	SMS_RECORD_NOT_EXIST
		condx	SMS_CONDX_OVR_NON
		modify	SMS_MODIFY_NON
		sms_sdu	SUBMIT_CONC_01_1
(5)	MNSMS_SUBMIT_CNF		
		mem_type	MEM_SM
		rec_num	SMS_RECORD_NOT_EXIST
		cause	SMS_NO_ERROR
		tp_mr	MSG_REF_01
		sms_sdu	SUBMIT_REPORT_ACK_01
(6)	MNSMS_SUBMIT_REQ		
		mem_type	MEM_SM
		rec_num	SMS_RECORD_NOT_EXIST
		condx	SMS_CONDX_OVR_NON
		modify	SMS_MODIFY_NON
		sms_sdu	SUBMIT_CONC_01_2

(7) MNSMS_SUBMIT_CNF

mem_type	MEM_SM
rec_num	SMS_RECORD_NOT_EXIST
cause	SMS_NO_ERROR
tp_mr	MSG_REF_02
sms_sdu	SUBMIT_REPORT_ACK_01

(8) MNSMS_SUBMIT_REQ

mem_type	MEM_SM
rec_num	SMS_RECORD_NOT_EXIST
condx	SMS_CONDX_OVR_NON
modify	SMS_MODIFY_NON
sms_sdu	SUBMIT_CONC_01_3

(9) MNSMS_SUBMIT_CNF

mem_type	MEM_SM
rec_num	SMS_RECORD_NOT_EXIST
cause	SMS_NO_ERROR
tp_mr	MSG_REF_03
sms_sdu	SUBMIT_REPORT_ACK_01

(10) ACI_CMD_IND

cmd_len	LM_CMGS_REC_NUM_1_3
cmd_seq	M_CMGS_REC_NUM_1_3

(11) ACI_CMD_IND

cmd_len	LM_OK
cmd_seq	M_OK

History: 04.12.2001 TLU Initial

3.7.7 ASC514: Send Command, Deleting of a sent message

Description:

A command message will be sent successfully to delete the sent messages.

Preamble:

ASC513

```
    APL                          ACI                          PS
     |                            |                            |
COMMAND (MMI CONFIG CONC_SMS_TST)
(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_COMMAND_CNF     |
     |                            *<===========================*
(6)  |                            |      MNSMS_COMMAND_REQ     |
     |                            *===========================>*
(7)  |                            |      MNSMS_COMMAND_CNF     |
     |                            *<===========================*
```

```
(8)   |                           |      MNSMS_COMMAND_REQ      |
      |                           *===========================>*
(9)   |                           |      MNSMS_COMMAND_CNF      |
      |                           *<===========================*
(10)  |         ACI_CMD_IND       |                             |
      |         (msg: CMGC)       |                             |
      *<==========================*                             |
(11)  |         ACI_CMD_IND       |                             |
      |          (msg: OK)        |                             |
      *<==========================*                             |
      |                           |                             |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGC_DELETE
		cmd_seq	C_CMGC_DELETE
(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_sdu	COMMAND_DEL_1
(5)	MNSMS_COMMAND_CNF		
		cause	SMS_NO_ERROR
		tp_mr	MSG_REF_01
		sms_sdu	SUBMIT_REPORT_ACK_01
(6)	MNSMS_COMMAND_REQ		
		sms_sdu	COMMAND_DEL_2
(7)	MNSMS_COMMAND_CNF		
		cause	SMS_NO_ERROR
		tp_mr	MSG_REF_02
		sms_sdu	SUBMIT_REPORT_ACK_01
(8)	MNSMS_COMMAND_REQ		
		sms_sdu	COMMAND_DEL_3
(9)	MNSMS_COMMAND_CNF		
		cause	SMS_NO_ERROR
		tp_mr	MSG_REF_03
		sms_sdu	SUBMIT_REPORT_ACK_01
(10)	ACI_CMD_IND		
		cmd_len	LM_CMGC_MSG_REF_1
		cmd_seq	M_CMGC_MSG_REF_1
(11)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK

History: 04.12.2001 TLU Initial

3.7.8 ASC515: Reading a message from storage

Description:

A short message will be successfully read from memory.

Preamble:

ASC516

```
    APL                          ACI                          PS
      |                            |                            |
COMMAND (MMI CONFIG CONC_SMS_TST)
(1)   |        ACI_CMD_REQ         |                            |
      |        (cmd: CMGR)         |                            |
      *==========================>*                            |
(2)   |                            |       MNSMS_READ_REQ       |
      |                            *===========================>*
(3)   |                            |       MNSMS_READ_CNF       |
      |                            *<===========================*
(4)   |                            |       MNSMS_READ_REQ       |
      |                            *===========================>*
(5)   |                            |       MNSMS_READ_CNF       |
      |                            *<===========================*
(6)   |                            |       MNSMS_READ_REQ       |
      |                            *===========================>*
(7)   |                            |       MNSMS_READ_CNF       |
      |                            *<===========================*
(8)   |        ACI_CMD_IND         |                            |
      |      (msg: conc. msg)      |                            |
      *<==========================*                            |
      |                            |                            |
```

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
		rec_num	REC_NUM_01
		read_mode	READ_NORMAL
		status	NOT_PRESENT_8BIT
(3)	MNSMS_READ_CNF		
		mem_type	MEM_SM
		rec_num	REC_NUM_02
		rec_next	SMS_RECORD_NOT_EXIST
		rec_max	REC_NUM_MAX
		cause	SMS_NO_ERROR
		rec_status	NUM_0
		status	SMS_RECORD_STO_UNSENT
		sms_sdu	SUBMIT_CONC_01_1
(4)	MNSMS_READ_REQ		
		mem_type	MEM_SM
		rec_num	REC_NUM_02
		read_mode	READ_NORMAL
		status	NOT_PRESENT_8BIT

(5) MNSMS_READ_CNF

mem_type	MEM_SM
rec_num	REC_NUM_02
rec_next	SMS_RECORD_NOT_EXIST
rec_max	REC_NUM_MAX
cause	SMS_NO_ERROR
rec_status	NUM_0
status	SMS_RECORD_STO_UNSENT
sms_sdu	SUBMIT_CONC_01_2

(6) MNSMS_READ_REQ

mem_type	MEM_SM
rec_num	REC_NUM_03
read_mode	READ_NORMAL
status	NOT_PRESENT_8BIT

(7) MNSMS_READ_CNF

mem_type	MEM_SM
rec_num	REC_NUM_03
rec_next	SMS_RECORD_NOT_EXIST
rec_max	REC_NUM_MAX
cause	SMS_NO_ERROR
rec_status	NUM_0
status	SMS_RECORD_STO_UNSENT
sms_sdu	SUBMIT_CONC_01_3

(8) ACI_CMD_IND

cmd_len	LM_CMT_ABCDEFGHIJKLMN_3
cmd_seq	M_CMT_ABCDEFGHIJKLMN_3

History: 04.12.2001 TLU Initial

3.7.9 ASC516: Storing a message in memory

Description:

A short message will be successfully written to memory.

Preamble:

ASC201A

```
    APL                         ACI                         PS
     |                           |                           |
COMMAND (MMI CONFIG CONC_SMS_TST)
(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_STORE_CNF      |
     |                           *<========================= *
(6)  |                           |      MNSMS_STORE_REQ      |
     |                           *=========================> *
```

```
(7)   |                          |      MNSMS_STORE_CNF       |
      |                          *<===========================*
(8)   |                          |      MNSMS_STORE_REQ       |
      |                          *===========================>*
(9)   |                          |      MNSMS_STORE_CNF       |
      |                          *<===========================*
(10)  |       ACI_CMD_IND        |                            |
      |       (msg: CMGW)        |                            |
      *<=========================*                            |
(11)  |       ACI_CMD_IND        |                            |
      |        (msg: OK)         |                            |
      *<=========================*                            |
      |                          |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMGW_WRITING2
	cmd_seq	C_CMGW_WRITING2
(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_ABCDEFGHIJKLMN_3
	cmd_seq	C_CMGS_ABCDEFGHIJKLMN_3
(4) MNSMS_STORE_REQ		
	mem_type	MEM_SM
	rec_num	SMS_RECORD_NOT_EXIST
	condx	SMS_CONDX_OVR_NON
	status	SMS_RECORD_STO_UNSENT
	sms_sdu	SUBMIT_CONC_01_1
(5) MNSMS_STORE_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_01
	cause	SMS_NO_ERROR
(6) MNSMS_STORE_REQ		
	mem_type	MEM_SM
	rec_num	SMS_RECORD_NOT_EXIST
	condx	SMS_CONDX_OVR_NON
	status	SMS_RECORD_STO_UNSENT
	sms_sdu	SUBMIT_CONC_01_2
(7) MNSMS_STORE_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_02
	cause	SMS_NO_ERROR
(8) MNSMS_STORE_REQ		
	mem_type	MEM_SM
	rec_num	SMS_RECORD_NOT_EXIST
	condx	SMS_CONDX_OVR_NON
	status	SMS_RECORD_STO_UNSENT
	sms_sdu	SUBMIT_CONC_01_3

(9) MNSMS_STORE_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_03
	cause	SMS_NO_ERROR
(10) ACI_CMD_IND		
	cmd_len	LM_CMGW_REC_NUM_1_3
	cmd_seq	M_CMGW_REC_NUM_1_3
(11) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 04.12.2001 TLU Initial

3.7.10 ASC517: Deleting a message from storage

Description:

A short message will be successfully deleted from memory.

Preamble:

ASC516

```
    APL                         ACI                         PS
     |                           |                           |
COMMAND (MMI CONFIG CONC_SMS_TST)
(1)  |        ACI_CMD_REQ        |                           |
     |        (cmd: CMGD)        |                           |
     *==========================>*                           |
(2)  |                           |      MNSMS_DELETE_REQ     |
     |                           *==========================>*
(3)  |                           |      MNSMS_DELETE_CNF     |
     |                           *<==========================*
(4)  |                           |      MNSMS_DELETE_REQ     |
     |                           *==========================>*
(5)  |                           |      MNSMS_DELETE_CNF     |
     |                           *<==========================*
(6)  |                           |      MNSMS_DELETE_REQ     |
     |                           *==========================>*
(7)  |                           |      MNSMS_DELETE_CNF     |
     |                           *<==========================*
(8)  |        ACI_CMD_IND        |                           |
     |         (msg: OK)         |                           |
     *<==========================*                           |
     |                           |                           |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMGD_SIM_1
	cmd_seq	C_CMGD_SIM_1
(2) MNSMS_DELETE_REQ		
	mem_type	MEM_SM
	rec_num	REC_NUM_01

(3) MNSMS_DELETE_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_01
	cause	SMS_NO_ERROR
(4) MNSMS_DELETE_REQ		
	mem_type	MEM_SM
	rec_num	REC_NUM_02
(5) MNSMS_DELETE_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_02
	cause	SMS_NO_ERROR
(6) MNSMS_DELETE_REQ		
	mem_type	MEM_SM
	rec_num	REC_NUM_03
(7) MNSMS_DELETE_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_03
	cause	SMS_NO_ERROR
(8) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 04.12.2001 TLU Initial

3.7.11 ASC518: Receiving a message directly (max. length)

Description:

Two concatenated messages will successfully received. The first message has the maximum length.

Preamble:

ASC206

```
    APL                        ACI                        PS
     |                          |                          |
COMMAND (MMI CONFIG CONC_SMS_TST)
(1)  |                          |     MNSMS_MESSAGE_IND    |
     |                          *<=========================*
(2)  |                          |     MNSMS_MESSAGE_IND    |
     |                          *<=========================*
(3)  |        ACI_CMD_IND       |                          |
     |      (msg: conc. msg)    |                          |
     *<=========================*                          |
     |                          |                          |
```

Parametrization:

Primitive	Parameter	Value
(1) MNSMS_MESSAGE_IND		
	mem_type	MEM_ME
	rec_num	SMS_RECORD_NOT_EXIST
	rec_max	REC_NUM_MAX
	status	SMS_RECORD_REC_UNREAD
	sms_sdu	DELIVER_CONC_03_1

Primitive	Parameter	Value
(2) MNSMS_MESSAGE_IND		
	mem_type	MEM_ME
	rec_num	SMS_RECORD_NOT_EXIST
	rec_max	REC_NUM_MAX
	status	SMS_RECORD_REC_UNREAD
	sms_sdu	DELIVER_CONC_03_2
(3) ACI_CMD_IND		
	cmd_len	LM_CMT_LONG
	cmd_seq	NOT_USED

History: 04.12.2001 TLU Initial

3.7.12 ASC519: Receiving a message directly (16-bit ref numbers)

Description:

Two concatenated messages will successfully received.

Preamble:

ASC206

```
    APL                         ACI                           PS
     |                           |                            |
COMMAND (MMI CONFIG CONC_SMS_TST)
(1)  |                           |      MNSMS_MESSAGE_IND     |
     |                           *<===========================*
(2)  |                           |      MNSMS_MESSAGE_IND     |
     |                           *<===========================*
(3)  |         ACI_CMD_IND       |                            |
     |      (msg: conc. msg 1)   |                            |
     *<==========================*                            |
     |                           |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) MNSMS_MESSAGE_IND		
	mem_type	MEM_ME
	rec_num	SMS_RECORD_NOT_EXIST
	rec_max	REC_NUM_MAX
	status	SMS_RECORD_REC_UNREAD
	sms_sdu	DELIVER_CONC_04_1
(2) MNSMS_MESSAGE_IND		
	mem_type	MEM_ME
	rec_num	SMS_RECORD_NOT_EXIST
	rec_max	REC_NUM_MAX
	status	SMS_RECORD_REC_UNREAD
	sms_sdu	DELIVER_CONC_04_2
(3) ACI_CMD_IND		
	cmd_len	LM_CMT_HALLOHALLOHALL_2
	cmd_seq	M_CMT_HALLOHALLOHALL_2

History: 12.02.2002 TLU Initial

3.7.13 ASC520: Error: Sending a stored message

Description:

A short message will not be successfully sent from memory.

Preamble:

ASC516

```
     APL                          ACI                           PS
      |                            |                             |
COMMAND (MMI CONFIG CONC_SMS_TST)
(1)   |         ACI_CMD_REQ        |                             |
      |         (cmd: CMSS)        |                             |
      *===========================>*                             |
(2)   |                            |      MNSMS_SUBMIT_REQ       |
      |                            *===========================>*
(3)   |                            |      MNSMS_SUBMIT_CNF       |
      |                            *<===========================*
(4)   |                            |      MNSMS_SUBMIT_REQ       |
      |                            *===========================>*
(5)   |                            |      MNSMS_SUBMIT_CNF       |
      |                            *<===========================*
(6)   |         ACI_CMD_IND        |                             |
      |       (msg: CMS ERROR)     |                             |
      *<===========================*                             |
      |                            |                             |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CMSS_SIM_1
	cmd_seq	C_CMSS_SIM_1
(2) MNSMS_SUBMIT_REQ		
	mem_type	MEM_SM
	rec_num	REC_NUM_01
	condx	SMS_CONDX_OVR_ANY
	modify	SMS_MODIFY_SCA
	sms_sdu	NOT_USED
(3) MNSMS_SUBMIT_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_01
	cause	SMS_NO_ERROR
	tp_mr	MSG_REF_01
	sms_sdu	SUBMIT_REPORT_ACK_01
(4) MNSMS_SUBMIT_REQ		
	mem_type	MEM_SM
	rec_num	REC_NUM_02
	condx	SMS_CONDX_OVR_ANY
	modify	SMS_MODIFY_SCA
	sms_sdu	NOT_USED

(5) MNSMS_SUBMIT_CNF		
	mem_type	MEM_SM
	rec_num	REC_NUM_02
	cause	SMS_CAUSE_MEM_FAIL
	tp_mr	MSG_REF_02
	sms_sdu	SUBMIT_REPORT_ERR_01
(6) ACI_CMD_IND		
	cmd_len	LM_CMS_ERROR_CMSS
	cmd_seq	M_CMS_ERROR_CMSS

History: 11.12.2001 TLU Initial

3.7.14 ASC521: Error: Sending a message directly

Description:

A short message will not be successfully sent directly.

Preamble:

ASC201A

```
    APL                          ACI                          PS
     |                            |                            |
COMMAND (MMI CONFIG CONC_SMS_TST)
(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_SUBMIT_CNF       |
     |                            *<==========================*
(6)  |                            |     MNSMS_SUBMIT_REQ       |
     |                            *==========================>*
(7)  |                            |     MNSMS_SUBMIT_CNF       |
     |                            *<==========================*
(8)  |         ACI_CMD_IND        |                            |
     |      (msg: CMS ERROR)      |                            |
     *<==========================*                            |
     |                            |                            |
```

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_ABCDEFGHIJKLMN_3
cmd_seq	C_CMGS_ABCDEFGHIJKLMN_3

(4) MNSMS_SUBMIT_REQ

mem_type	MEM_SM
rec_num	SMS_RECORD_NOT_EXIST
condx	SMS_CONDX_OVR_NON
modify	SMS_MODIFY_NON
sms_sdu	SUBMIT_CONC_01_1

(5) MNSMS_SUBMIT_CNF

mem_type	MEM_SM
rec_num	SMS_RECORD_NOT_EXIST
cause	SMS_NO_ERROR
tp_mr	MSG_REF_01
sms_sdu	SUBMIT_REPORT_ACK_01

(6) MNSMS_SUBMIT_REQ

mem_type	MEM_SM
rec_num	SMS_RECORD_NOT_EXIST
condx	SMS_CONDX_OVR_NON
modify	SMS_MODIFY_NON
sms_sdu	SUBMIT_CONC_01_2

(7) MNSMS_SUBMIT_CNF

mem_type	MEM_SM
rec_num	SMS_RECORD_NOT_EXIST
cause	SMS_CAUSE_OTHER_ERROR
tp_mr	MSG_REF_02
sms_sdu	SUBMIT_REPORT_ERR_01

(8) ACI_CMD_IND

cmd_len	LM_CMS_ERROR_CMGS
cmd_seq	M_CMS_ERROR_CMGS

History: 11.12.2001 TLU Initial

3.7.15 ASC522: Error: Reading a message from storage

Description:

The read command does not refer to the first segment.

Preamble:

ASC516

```
    APL                        ACI                        PS
     |                          |                          |
COMMAND (MMI CONFIG CONC_SMS_TST)
(1)  |        ACI_CMD_REQ       |                          |
     |       (cmd: CMEE=2)      |                          |
     *==========================>*                         |
(2)  |        ACI_CMD_IND       |                          |
     |         (msg: OK)        |                          |
     *<==========================*                         |
(3)  |        ACI_CMD_REQ       |                          |
     |        (cmd: CMGR)       |                          |
     *==========================>*                         |
(4)   |         ACI_CMD_IND          |                            |
      |       (msg: CMS ERROR)       |                            |
      *<==========================*                            |
      |                              |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMEE_2
		cmd_seq	C_CMEE_2
(2)	ACI_CMD_IND		
		cmd_len	LM_OK
		cmd_seq	M_OK
(3)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGR_SIM_2
		cmd_seq	C_CMGR_SIM_2
(4)	ACI_CMD_IND		
		cmd_len	LM_CMS_ERROR_CMGR
		cmd_seq	M_CMS_ERROR_CMGR

History: 12.12.2001 TLU Initial

3.7.16 ASC523: Error: Storing a message in memory

Description:

A short message will not be successfully written to memory.

Preamble:

ASC201A

```
    APL                          ACI                          PS
      |                            |                            |
COMMAND (MMI CONFIG CONC_SMS_TST)
(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_STORE_CNF      |
      |                            *<==========================*
(6)   |         ACI_CMD_IND        |                            |
      |       (msg: CMS ERROR)     |                            |
      *<==========================*                            |
      |                            |                            |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGW_WRITING2
		cmd_seq	C_CMGW_WRITING2
(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_ABCDEFGHIJKLMN_3
		cmd_seq	C_CMGS_ABCDEFGHIJKLMN_3
(4)	MNSMS_STORE_REQ		
		mem_type	MEM_SM
		rec_num	SMS_RECORD_NOT_EXIST
		condx	SMS_CONDX_OVR_NON
		status	SMS_RECORD_STO_UNSENT
		sms_sdu	SUBMIT_CONC_01_1
(5)	MNSMS_STORE_CNF		
		mem_type	MEM_SM
		rec_num	REC_NUM_01
		cause	SMS_CAUSE_MEM_FAIL
(6)	ACI_CMD_IND		
		cmd_len	LM_CMS_ERROR_CMGW
		cmd_seq	M_CMS_ERROR_CMGW

History: 12.12.2001 TLU Initial

3.7.17 ASC524: Error: Deleting a message from storage

Description:

A short message will not be successfully deleted from memory.

Preamble:

ASC516

```
    APL                          ACI                          PS
     |                            |                            |
COMMAND (MMI CONFIG CONC_SMS_TST)
(1)  |        ACI_CMD_REQ         |                            |
     |        (cmd: CMGD)         |                            |
     *===========================>*                            |
(2)  |                            |      MNSMS_DELETE_REQ      |
     |                            *===========================>*
(3)  |                            |      MNSMS_DELETE_CNF      |
     |                            *<===========================*
(4)  |                            |      MNSMS_DELETE_REQ      |
     |                            *===========================>*
(5)  |                            |      MNSMS_DELETE_CNF      |
     |                            *<===========================*
(6)  |                            |      MNSMS_DELETE_REQ      |
     |                            *===========================>*
```

```
(7)   |                           |      MNSMS_DELETE_CNF       |
      |                           *<===========================*
(8)   |        ACI_CMD_IND        |                             |
      |      (msg: CMS ERROR)     |                             |
      *<==========================*                             |
      |                           |                             |
```

Parametrization:

	Primitive	Parameter	Value
(1)	ACI_CMD_REQ		
		cmd_src	CMD_SRC_EXT
		cmd_len	LC_CMGD_SIM_1
		cmd_seq	C_CMGD_SIM_1
(2)	MNSMS_DELETE_REQ		
		mem_type	MEM_SM
		rec_num	REC_NUM_01
(3)	MNSMS_DELETE_CNF		
		mem_type	MEM_SM
		rec_num	REC_NUM_01
		cause	SMS_CAUSE_MEM_FAIL
(4)	MNSMS_DELETE_REQ		
		mem_type	MEM_SM
		rec_num	REC_NUM_02
(5)	MNSMS_DELETE_CNF		
		mem_type	MEM_SM
		rec_num	REC_NUM_02
		cause	SMS_CAUSE_MEM_FAIL
(6)	MNSMS_DELETE_REQ		
		mem_type	MEM_SM
		rec_num	REC_NUM_03
(7)	MNSMS_DELETE_CNF		
		mem_type	MEM_SM
		rec_num	REC_NUM_03
		cause	SMS_CAUSE_MEM_FAIL
(8)	ACI_CMD_IND		
		cmd_len	LM_CMS_ERROR_CMGD
		cmd_seq	M_CMS_ERROR_CMGD

History: 12.12.2001 TLU Initial

3.8 Cell Broatcast Homezone Message (ASC600 – ASC609)

3.8.1 ASC600: Activate homezone functionality with %CBHZ

Description:

Activate homezone functionality with %CBHZ.

Preamble:

ASC102A

Variants:

<A>...<E>

```
    APL                          ACI                          PS
     |                            |                            |
(1)  |         ACI_CMD_REQ        |                            |
     |         (cmd: CBHZ)        |                            |
     *===========================>*                            |
(2)  |                            |        MMI_CBCH_REQ        |
     |                            *===========================>*
(3)  |         ACI_CMD_IND        |                            |
     |          (msg: OK)         |                            |
     *<===========================*                            |
     |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_CBHZ_MOD1
<B>	cmd_len	LC_CBHZ_MOD1_DCS0
<C>	cmd_len	LC_CBHZ_MOD1_DCS1_TIM60
<D>	cmd_len	LC_CBHZ_MOD1_DCS0_TIM90
<E>	cmd_len	LC_CBHZ_MOD1_TIM60
<A>	cmd_seq	C_CBHZ_MOD1
<B>	cmd_seq	C_CBHZ_MOD1_DCS0
<C>	cmd_seq	C_CBHZ_MOD1_DCS1_TIM60
<D>	cmd_seq	C_CBHZ_MOD1_DCS0_TIM90
<E>	cmd_seq	C_CBHZ_MOD1_TIM60
(2) MMI_CBCH_REQ		
	msg_id	CBHZ_MID
<A>	dcs_id	CBHZ_DCS0_TIM60
<B>	dcs_id	CBHZ_DCS0_TIM60
<C>	dcs_id	CBHZ_DCS1_TIM60
<D>	dcs_id	CBHZ_DCS0_TIM90
<E>	dcs_id	CBHZ_DCS0_TIM60
	modus	CBCH_HOMEZONE
(3) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 22.08.02 KGT Initial

3.8.2 ASC603: Deactivate homezone functionality with %CBHZ

Description:

Deactivate homezone functionality with %CBHZ.

Preamble:

ASC600A

```
    APL                          ACI                          PS
     |                            |                            |
(1)  |        ACI_CMD_REQ         |                            |
     |        (cmd: CBHZ)         |                            |
     *==========================> *                            |
(2)  |                            |        MMI_CBCH_REQ        |
     |                            *==========================> *
(3)  |        ACI_CMD_IND         |                            |
     |         (msg: OK)          |                            |
     * <==========================*                            |
     |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(11) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
	cmd_len	LC_CBHZ_MOD0
	cmd_seq	C_CBHZ_MOD0
(12) MMI_CBCH_REQ		
	msg_id	CBHZ_MID_OFF
	dcs_id	CBHZ_DCS0_TIM60
	modus	CBCH_HOMEZONE
(13) ACI_CMD_IND		
	cmd_len	LM_OK
	cmd_seq	M_OK

History: 22.08.02 KGT Initial

3.8.3 ASC605: Try to activate homezone functionality with wrong %CBHZ.

Description:

Try to activate homezone functionality with wrong %CBHZ:
<A> invalid mode,
<B> invalid datacoding scheme,
<C> invalid timeout period.

Preamble:

ASC603

Variants:

<A>...<C>

```
    APL                          ACI                          PS
      |                            |                            |
(4)   |        ACI_CMD_REQ         |                            |
      |        (cmd: CBHZ)         |                            |
      *===========================>*                            |
(5)   |        ACI_CMD_IND         |                            |
      |       (msg: ERROR)         |                            |
      *<===========================*                            |
      |                            |                            |
```

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ		
	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_CBHZ_MOD_WRONG
<B>	cmd_len	LC_CBHZ_DCS_WRONG
<C>	cmd_len	LC_CBHZ_TIM_WRONG
<A>	cmd_seq	C_CBHZ_MOD_WRONG
<B>	cmd_seq	C_CBHZ_DCS_WRONG
<C>	cmd_seq	C_CBHZ_TIM_WRONG
(2) ACI_CMD_IND		
	cmd_len	LM_ERROR
	cmd_seq	M_ERROR

History: 22.08.02 KGT Initial