GSM Protocol Stack

Test Specification
SIM

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6147.408.98.101	17-Apr-2002	STW	add SAT class c
6147.408.98.102	08-May-2002	STW	add SAT class e
6147.408.98.102	31-May-2002	FK	add Provide Local Information (Date, Time, Timezone)
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6147.408.98.109	07-Mar-2003	FK	Timing made independent from TAP settings
6147.408.98.110	21-March-2003	JK	New behaviour of BIP timer

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[2] GSM 2.82, Call Forwarding Supplementary Services - Stage 1
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[83] Technical Documentation DL
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[84] Technical Documentation CCD
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0.3 Abbreviations

AGCH Access Grant Channel
BCCH Broadcast Control Channel
BS Base Station
BSIC Base Station Identification Code
CBCH Cell Broadcast Channel
CBQ Cell Bar Qualify
CC Call Control
CCCH Common Control Channel
CCD Condat Coder Decoder
CKSN Ciphering Key Sequence Number
C/R Command / Response
C1 Path Loss Criterion
C2 Reselection Criterion
DCCH Dedicated Control Channel
DISC Disconnect Frame

DL	Data Link Layer
DM	Disconnected Mode Frame
EA	Extension Bit Address Field
EL	Extension Bit Length Field
EMMI	Electrical Man Machine Interface
F	Final Bit
FACCH	Fast Associated Control Channel
FHO	Forced Handover
GP	Guard Period
GSM	Global System for Mobile Communication
HPLMN	Home Public Land Mobile Network
I	Information Frame
IMEI	International Mobile Equipment Identity
IMSI	International Mobile Subscriber Identity
Kc	Authentication Key
L	Length Indicator
LAI	Location Area Information
LPD	Link Protocol Discriminator
M	More Data Bit
MCC	Mobile Country Code
MM	Mobility Management
MMI	Man Machine Interface
MNC	Mobile Network Code
MS	Mobile Station
NCC	National Colour Code
NECI	New Establishment Causes included
N(R)	Receive Number
N(S)	Send Number
OTD	Observed Time Difference
P	Poll Bit
PCH	Paging Channel
PDU	Protocol Description Unit
P/F	Poll / Final Bit
PL	Physical Layer
PLMN	Public Land Mobile Network
RACH	Random Access Channel
REJ	Reject Frame
RNR	Receive Not Ready Frame
RR	Radio Resource Management
RR	Receive Ready Frame
RTD	Real Time Difference
SABM	Set Asynchronous Balanced Mode
SACCH	Slow Associated Control Channel
SAP	Service Access Point
SAPI	Service Access Point Identifier
SDCCH	Slow Dedicated Control Channel
SIM	Subscriber Identity Module
SMS	Short Message Service
SMSCB	Short Message Service Cell Broadcast
SS	Supplementary Services
TCH	Traffic Channel
TCH/F	Traffic Channel Full Rate
TCH/H	Traffic Channel Half Rate
TDMA	Time Division Multiple Access
TMSI	Temporary Mobile Subscriber Identity
UA	Unnumbered Acknowledgement Frame
UI	Unnumbered Information Frame

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

0.4 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 Parameters

/*

1.1 Values

*/

```
#define HPLMN_1                         1
#define HPLMN_4                         4
#define HPLMN_5                         5
#define PHASE_2_PLUS_SIM                3
#define PIN_3_ATTEMPTS                  3
#define PIN_2_ATTEMPTS                  2
#define PUK_5_ATTEMPTS                  5
#define PUK_10_ATTEMPTS                 10
#define OP_TA_SPECIAL                   0x81
#define TP_MR_1                         1
#define MEM_IS_AVAILABLE                1
#define PIN_1                           1
#define PIN_2                           2
#define CELL_ID_0022                    0x22
#define MMI_PROFILE                     0xE0
#define MMI_PROFILE_FDN                 0x40
#define MMI_PROFILE_FDN_BDN             0x60
#define MMI_PROFILE_ADN                 0x80
#define MMI_PROFILE_ADN_FDN             0xC0
#define MMI_PROFILE_ADN_BDN             0xA0
#define MMI_REQ_ID                      0xC2        /* arbitrary value */
#define     ZERO                        0
#define     P3_VAL_10                   10
#define     P3_VAL_20                   20
#define     P3_VAL_22                   22
#define     SW1_90                      0x90
#define     SW1_94                      0x94
#define     SW1_67                      0x67
#define     SW2_00                      0x00
#define     SW2_04                      0x04
#define     ATR_LEN                     2

#define  P1_DUMMY                       0           /* dummy value for p1 */
#define  P2_DUMMY                       0           /* dummy value for p2 */

/* definitions for parameters sw2 and le */
#define  LE_STK_OPEN_CHANNEL_IM_UDP     40          /* value for le */
#define  LE_STK_OPEN_CHANNEL_OD_UDP     40          /* value for le */
#define  LE_STK_OPEN_CHANNEL_IM_SNDCP   18          /* value for le */
#define  LE_STK_OPEN_CHANNEL_OD_SNDCP   18          /* value for le */
#define  LE_STK_OPEN_CHANNEL_IM_L2R     28          /* value for le */
#define  LE_STK_OPEN_CHANNEL_OD_L2R     28          /* value for le */
#define  LE_STK_CLOSE_CHANNEL_UDP       11          /* value for le */
#define  LE_STK_CLOSE_CHANNEL_SNDCP     11          /* value for le */
#define  LE_STK_CLOSE_CHANNEL_L2R       11          /* value for le */
#define  LE_STATUS                      22          /* value for le */
#define  LE_STK_TERM_RESP_IM_UDP        26          /* value for le */
#define  LE_STK_TERM_RESP_OD_UDP        26          /* value for le */
#define  LE_STK_TERM_RESP_IM_SNDCP      29          /* value for le */
#define  LE_STK_TERM_RESP_OD_SNDCP      29          /* value for le */
#define  LE_STK_TERM_RESP_IM_L2R        26          /* value for le */
#define  LE_STK_TERM_RESP_OD_L2R        26          /* value for le */
```

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#define LE_STK_TERM_RESP_SD_ST_255          15          /* value for le */
#define LE_STK_TERM_RESP_SD_IM_255          15          /* value for le */
#define LE_STK_TERM_RESP_SD_SUSPEND         16          /* value for le */
#define LE_STK_TERM_RESP_SD_CLOSED          16          /* value for le */
#define LE_STK_TERM_RESP_RD_235_235         253         /* value for le */
#define LE_STK_TERM_RESP_RD_235_0           253         /* value for le */
#define LE_STK_TERM_RESP_RD_0_0             17          /* value for le */
#define LE_STK_TERM_RESP_CLCH                   12              /* value for le */

#define LE_STK_SEND_DATA_ST_UDP_127         141         /* value for le */
#define LE_STK_SEND_DATA_IM_UDP_127         141         /* value for le */
#define LE_STK_SEND_DATA_ST_UDP_241         256         /* value for le */
#define LE_STK_SEND_DATA_IM_UDP_241         256         /* value for le */
#define LE_STK_SEND_DATA_ST_SNDCP_127       141         /* value for le */
#define LE_STK_SEND_DATA_IM_SNDCP_127       141         /* value for le */
#define LE_STK_SEND_DATA_ST_SNDCP_241       256         /* value for le */
#define LE_STK_SEND_DATA_IM_SNDCP_241       256         /* value for le */
#define LE_STK_SEND_DATA_ST_L2R_127         141         /* value for le */
#define LE_STK_SEND_DATA_IM_L2R_127         141         /* value for le */
#define LE_STK_SEND_DATA_ST_L2R_241         256         /* value for le */
#define LE_STK_SEND_DATA_IM_L2R_241         256         /* value for le */

#define LE_STK_SND_DATA_ST_UDP_I_228        247         /* value for le */
#define LE_STK_SND_DATA_ST_SNDCP_I_228      247         /* value for le */
#define LE_STK_SND_DATA_ST_L2R_I_228        247         /* value for le */
#define LE_STK_SND_DATA_IM_UDP_I_228   247          /* value for le */
#define LE_STK_SND_DATA_IM_SNDCP_I_228      247         /* value for le */
#define LE_STK_SND_DATA_IM_L2R_I_228        247         /* value for le */
#define LE_STK_SND_DATA_ST_UDP_IA_228       254         /* value for le */
#define LE_STK_SND_DATA_ST_SNDCP_IA_228     254         /* value for le */
#define LE_STK_SND_DATA_ST_L2R_IA_228 254           /* value for le */
#define LE_STK_SND_DATA_IM_UDP_IA_228 254           /* value for le */
#define LE_STK_SND_DATA_IM_SNDCP_IA_228     254         /* value for le */
#define LE_STK_SND_DATA_IM_L2R_IA_228  254          /* value for le */

#define LE_STK_RCV_DATA_UDP_235             14          /* value for le */
#define LE_STK_RCV_DATA_SNDCP_235           14          /* value for le */
#define LE_STK_RCV_DATA_L2R_235             14          /* value for le */

#define LE_STK_RCV_DATA_UDP_I_235           18          /* value for le */
#define LE_STK_RCV_DATA_SNDCP_I_235         18          /* value for le */
#define LE_STK_RCV_DATA_L2R_I_235           18          /* value for le */
#define LE_STK_RCV_DATA_UDP_IA_235          25          /* value for le */
#define LE_STK_RCV_DATA_SNDCP_IA_235        25          /* value for le */
#define LE_STK_RCV_DATA_L2R_IA_235          25          /* value for le */

#define LE_STK_ENVELOPE_DA_UDP_255          16          /* value for le */
#define LE_STK_ENVELOPE_DA_SNDCP_255        16          /* value for le */
#define LE_STK_ENVELOPE_DA_L2R_255          16          /* value for le */

/* definitions for dti_conn parameter */
#define SIM_BIP_AND_DTI_OPEN                (SIM_DTI_CONNECT | \
                                            SIM_BIP_OPEN_CHANNEL)
#define SIM_BIP_AND_DTI_OPEN_RES            (SIM_DTI_CONNECT | \
                                             SIM_BIP_OPEN_CHANNEL | \
                                             SIM_BIP_CHANNEL_RESUMED)
```

```
#define SIM_BIP_AND_DTI_OPEN_SUS            (SIM_DTI_CONNECT | \
                                             SIM_BIP_OPEN_CHANNEL | \
                                             SIM_BIP_CHANNEL_SUSPENDED)
#define SIM_BIP_OPEN_DTI_CLOSE_RES          (SIM_DTI_DISCONNECT | \
                                             SIM_BIP_OPEN_CHANNEL | \
                                             SIM_BIP_CHANNEL_RESUMED)
#define SIM_BIP_AND_DTI_CLOSE               (SIM_DTI_DISCONNECT | \
                                             SIM_BIP_CLOSE_CHANNEL)
#define SIM_BIP_AND_DTI_CLOSE_RES           (SIM_DTI_DISCONNECT | \
                                             SIM_BIP_CLOSE_CHANNEL | \
                                             SIM_BIP_CHANNEL_RESUMED)
/* definitions for dti_directions parameter */
#define SEND_INDICATIONS                    0
#define SEND_REQUESTS                       1
/* definitions for entity_name parameter */
#define ENTITY_UDP                          1
#define ENTITY_SNDCP                        2
#define ENTITY_L2R                          3
/* definitions for link_id parameter */
#define LINK_ID_UDP                         21
#define LINK_ID_SNDCP                       22
#define LINK_ID_L2R                         23
/* definitions for source IP address */
#define SIM_IP_LOCAL_DYNAMIC_1              ((SIM_IP_LOCAL_DYNAMIC >> 24) & 0x000000ff)
#define SIM_IP_LOCAL_DYNAMIC_2              ((SIM_IP_LOCAL_DYNAMIC >> 16) & 0x000000ff)
#define SIM_IP_LOCAL_DYNAMIC_3              ((SIM_IP_LOCAL_DYNAMIC >>  8) & 0x000000ff)
#define SIM_IP_LOCAL_DYNAMIC_4              ((SIM_IP_LOCAL_DYNAMIC)       & 0x000000ff)
/* definition for destination_ip parameter */
#define DESTINATION_IP                      0x0a0b0c0d      /* IP address 10.11.12.13 */
#define DESTINATION_IP_1                    0x0a            /* 1. byte of IP address 10.11.12.13 */
#define DESTINATION_IP_2                    0x0b            /* 2. byte of IP address 10.11.12.13 */
#define DESTINATION_IP_3                    0x0c            /* 3. byte of IP address 10.11.12.13 */
#define DESTINATION_IP_4                    0x0d            /* 4. byte of IP address 10.11.12.13 */
#define DESTINATION_IP_DUMMY                0x00000000      /* dummy IP address */
/* definition for destination_port parameter */
#define DESTINATION_PORT                    0x0708          /* port 1800 */
#define DESTINATION_PORT_1                  0x07            /* 1. byte of port 1800 */
#define DESTINATION_PORT_2                  0x08            /* 2. byte of port 1800 */
#define DESTINATION_PORT_DUMMY              0x0000          /* dummy port */
/* definitions for bip_ch_id parameter */
#define BIP_CH_ID_UDP                       0x21
#define BIP_CH_ID_SNDCP                     0x22
#define BIP_CH_ID_L2R                       0x23
/* definitions for bip channel in first byte of channel status */
#define BIP_CH_ID_UDP_ACTIVE                0x81
#define BIP_CH_ID_SNDCP_ACTIVE              0x82
#define BIP_CH_ID_L2R_ACTIVE                0x83
/* definition for UDP source port parameter */
#define UDP_SRC_PORT                        0x090a          /* port 2314 */
#define UDP_SRC_PORT_1                      0x09            /* 1. byte of port 2314 */
#define UDP_SRC_PORT_2                      0x0a            /* 2. byte of port 2314 */

/* defintions for air-message coding */
#define PROACTIVE_SIM_CMD_TAG               0xD0            /* proactive SIM command tag */
#define ALPHA_ID_TAG                        0x05            /* alpha identifier tag */
#define ICON_ID_TAG                         0x1E            /* icon identifier tag */
#define CMD_DETAILS_TAG                     0x81            /* command details tag */
#define DEV_ID_TAG                          0x82            /* device identities tag */
```

```
#define RESULT_TAG                      0x83        /* result tag */
#define ADDR_TAG                        0x86        /* address tag */
#define BEAR_DESC_TAG                   0xB5        /* bearer description tag */
#define CH_DATA_TAG                     0xb6        /* channel data tag */
#define CH_DATA_LENGTH_TAG              0xb7        /* channel data length tag */
#define CH_STATUS_TAG                   0xb8        /* channel status tag */
#define BUF_SIZE_TAG                    0xB9        /* buffer size tag */
#define SIM_ME_TRANS_TAG                0xbc        /* SIM/ME interf. transp. level tag */
#define DEST_ADDR_TAG                   0xbe        /* Data destination address tag */
#define EVENT_DOWNLOAD_TAG              0xd6        /* Event download tag */
#define EVENT_LIST_TAG                  0x99        /* Event list tag */

/* definitions for timer release */

#define SIM_1SEC_RELEASE 10             /* use the timer with 1 second */
#define SIM_2SEC_RELEASE 20             /* use the timer with 2 second */
#define SIM_4SEC_RELEASE 40             /* use the timer with 4 second */
#define SIM_5SEC_RELEASE 50             /* use the timer with 5 second */
#define SIM_6SEC_RELEASE 60             /* use the timer with 6 second */
#define SIM_8SEC_RELEASE 80             /* use the timer with 8 second */
#define SIM_10SEC_RELEASE 100           /* use the timer with 10 second */
#define SIM_16SEC_RELEASE 160           /* use the timer with 16 second */
#define SIM_AUTO_REL_TIME 120           /* somewhat longer as the poll interval of 10 seconds */

/* defintions for air-message tag qualifier coding */
#define ICON_QLF_SLF_EXP                0x00        /* icon identifier self explanatory */
#define ICON_QLF_N_SLF_EXP              0x01        /* icon identifier not self explanatory */

/* defintions for air-message tag contents */
#define ICON_ID_123                     0x7B        /* icon identifier  123, any dummy number */

/* the following definitions only for the purpose of keeping the command's notation short */
#define     OP_CH_HEADER_1      0xD0,       /* proactive SIM command tag        */\
                                26,         /* following length                 */\
                                0x81,       /* command details tag              */\
                                3,          /* command details length           */\
                                1,          /* command number                   */\
                                0x40        /* command OPEN_CHANNEL             */
#define     OP_CH_TRAILER_1     0x82,       /* device identities tag            */\
                                2,          /* length                           */\
                                0x81,       /* source SIM                       */\
                                0x82,       /* destination ME                   */\
                                0x86,       /* address tag                      */\
                                5,          /* address length                   */\
                                145,        /* TON and NPI                      */\
                                0x31, 0x33, /* dialling numbers                 */\
                                0x34, 0x35, /* dialling numbers                 */\
                                0xB5,       /* bearer description tag           */\
                                4,          /* length                           */\
                                0x01,       /* bearer type: CSD                 */\
                                12,         /* speed                            */\
                                2,          /* name: PAD Access (async) (UDI)   */\
                                0,          /* connection element: transparent  */\
                                0xB9,       /* buffer size tag                  */\
                                2,          /* length                           */\
                                128,        /* 2 bytes coding: length > 127     */\
                                241         /* second byte: actual size         */
```

```
#define   OP_CH_HEADER_2    0xD0,         /* proactive SIM command tag              *\
                            29,           /* following length                       *\
                            0x81,         /* command details tag              *\
                            3,            /* command details length           *\
                            1,            /* command number                         *\
                            0x40          /* command OPEN_CHANNEL                   */

#define   OP_CH_TRAILER_2   0x82,         /* device identities tag            *\
                            2,            /* length                                 *\
                            0x81,         /* source SIM                             *\
                            0x82,         /* destination ME                         *\
                            0x86,         /* address tag                      *\
                            5,            /* address length                         *\
                            145,          /* TON and NPI                            *\
                            0x31, 0x33,   /* dialling numbers                       *\
                            0x34, 0x35,   /* dialling numbers                       *\
                            0xB5,         /* bearer description tag           *\
                            7,            /* length                                 *\
                            0x02,         /* bearer type: GPRS                      *\
                            2,            /* precedence: Normal priority            *\
                            2,            /* delay class: Delay class 2             *\
                            5,            /* rel class: unackd GTP, LLC & RLC, Unprot data*\
                            5,            /* peak throughput: up to 16k oct/s *\
                            12,           /* mean: throughput: 500k octet/h   *\
                            2,            /* Packed data protocol type: IP    *\
                            0xB9,         /* buffer size tag                        *\
                            2,            /* length                                 *\
                            128,          /* 2 bytes coding: length > 127     *\
                            241           /* second byte: actual size               */

#define   SND_DATA_127      0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                            0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                            0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                            0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                            0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                            0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                            0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                            0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                            0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                            0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                            0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                            0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                            0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                            0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                            0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                            0x31,0x32,0x33,0x34,0x35,0x36,0x37

#define   SND_DATA_241      0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                            0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                            0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                            0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                            0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                            0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                            0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                            0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                            0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                            0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                            0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
```

```
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31

#define         SND_DATA_228            0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x35,0x36,0x37,0x38

#define         RCV_DATA_235            0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                                        0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
```

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                    0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                    0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                    0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                    0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                    0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                    0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                    0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                    0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                    0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                    0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                    0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                    0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                    0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                    0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                    0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                    0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                    0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                    0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                    0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                    0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                    0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                    0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                    0x31,0x32,0x33,0x34,0x35,0x36,0x37,0x38,\
                    0x31,0x32,0x33

/*
```

1.2 Declarations

```
*/
DECLARATION (PIN_1_VALUE)
DECLARATION (PIN_1_WRONG)
DECLARATION (STK_NOT_SUPPORTED)
DECLARATION (STK_SUPPORTED)
DECLARATION (STK_FULL_CLASS2)
DECLARATION (STK_FULL_CLASS3)
DECLARATION (STK_FULL_CLASSC)
DECLARATION (STK_FULL_CLASSE)
DECLARATION (NO_EC_CODES)
DECLARATION (NO_PREF_LANG)
DECLARATION (DEF_ATR)
DECLARATION (IMSI)
DECLARATION (IMSI_CONTENT)
DECLARATION (NO_IMSI)
DECLARATION (LOC_INFO)
DECLARATION (LOC_INFO_CONTENT)
DECLARATION (ACC_CTRL)
DECLARATION (ACC_CTRL_CONTENT)
DECLARATION (BCCH_INFO)
DECLARATION (BCCH_INFO_CONTENT)
DECLARATION (KC_N)
DECLARATION (KC_N_CONTENT)
DECLARATION (PREF_PLMN)
DECLARATION (PREF_PLMN_CONTENT)
DECLARATION (FORB_PLMN)
DECLARATION (FORB_PLMN_CONTENT)
DECLARATION (SIM_SERV_PHASE_1)
DECLARATION (SIM_SERV_PHASE_1_NO_SMS)
DECLARATION (SIM_SERV_PHASE_2)
```

DECLARATION (SIM_SERV_PHASE_2_SMSR)
DECLARATION (SIM_SERV_PHASE_2_BOTH)
DECLARATION (SIM_SERV_PHASE_2_FDN)
DECLARATION (SIM_SERV_PHASE_2_FDN_BDN)
DECLARATION (SIM_SERV_PHASE_2_ADN_BDN)
DECLARATION (SIM_SERV_PHASE_2_PLUS)
DECLARATION (SIM_SERV_PHASE_2_PLUS_X)
DECLARATION (SIM_SERV_PHASE_2_PLUS_CL3)
DECLARATION (EC_CODES)
DECLARATION (LP_CODES)
DECLARATION (FILE_LIST_MODE_35)
DECLARATION (FILE_LIST_MODE_211)

DECLARATION (EMPTY_ARRAY)
DECLARATION (WIM_CMD_OPEN_CHANNEL)
DECLARATION (WIM_RSP_OPEN_CHANNEL)
DECLARATION (WIM_TST_OPEN_CHANNEL)
DECLARATION (WIM_CMD_SELECT_AID)
DECLARATION (WIM_TST_SELECT_AID)
DECLARATION (WIM_TST_SELECT_AID_CONTENT)
DECLARATION (WIM_CMD_SELECT_FILE_odf)
DECLARATION (WIM_TST_SELECT_FILE_odf)
DECLARATION (WIM_TST_SELECT_FILE_CONTENT_odf)
DECLARATION (WIM_CMD_SELECT_FILE_cdf)
DECLARATION (WIM_TST_SELECT_FILE_cdf)
DECLARATION (WIM_TST_SELECT_FILE_CONTENT_cdf)
DECLARATION (WIM_CMD_GET_RESPONSE)
DECLARATION (WIM_RSP_GET_RESPONSE_odf)
DECLARATION (WIM_TST_GET_RESPONSE_odf)
DECLARATION (WIM_RSP_GET_RESPONSE_cdf)
DECLARATION (WIM_TST_GET_RESPONSE_cdf)
DECLARATION (WIM_CMD_READ_BINARY_odf)
DECLARATION (WIM_RSP_READ_BINARY_odf)
DECLARATION (WIM_TST_READ_BINARY_odf)
DECLARATION (WIM_CMD_READ_BINARY_FALSE)
DECLARATION (WIM_CMD_MSE_RESTORE)

DECLARATION (STK_ENVELOPE)
DECLARATION (STK_ENVELOPE_CONTENT)
DECLARATION (STK_CC)
DECLARATION (STK_DISPLAY_TEXT_SHORT)
DECLARATION (STK_DISPLAY_TEXT_SHORT_CONTENT)
DECLARATION (STK_DISPLAY_TEXT_LONG)
DECLARATION (STK_DISPLAY_TEXT_LONG_CONTENT)
DECLARATION (STK_GET_INKEY)
DECLARATION (STK_GET_INKEY_CONTENT)
DECLARATION (STK_GET_INPUT)
DECLARATION (STK_GET_INPUT_CONTENT)
DECLARATION (STK_PLAY_TONE)
DECLARATION (STK_PLAY_TONE_CONTENT)
DECLARATION (STK_REFRESH)
DECLARATION (STK_REFRESH_CONTENT)
DECLARATION (STK_SET_UP_MENU)
DECLARATION (STK_SET_UP_MENU_CONTENT)
DECLARATION (STK_SELECT_ITEM)
DECLARATION (STK_SELECT_ITEM_CONTENT)
DECLARATION (STK_SEND_SMS)
DECLARATION (STK_SEND_SMS_CONTENT)

DECLARATION (STK_SEND_SS)
DECLARATION (STK_SEND_SS_CONTENT)
DECLARATION (STK_SET_UP_CALL)
DECLARATION (STK_SET_UP_CALL_CONTENT)
DECLARATION (STK_PLI_DTT)
DECLARATION (STK_PLI_DTT_CONTENT)
DECLARATION (LAI_262_01_0033)
DECLARATION (LAI_262_01_0033_CONTENT)
DECLARATION (STK_NO_RESPONSE)
DECLARATION (STK_RESPONSE)
DECLARATION (STK_RESPONSE_CONTENT)
DECLARATION (STK_TERMINAL_RESPONSE)
DECLARATION (STK_TERMINAL_RESPONSE_CONTENT)
DECLARATION (STK_TERM_RESP_PLAY_TONE)
DECLARATION (STK_TERM_RESP_PLAY_TONE_CONTENT)
DECLARATION (STK_TERM_RESP_DISPLAY_TEXT)
DECLARATION (STK_TERM_RESP_DISPLAY_TEXT_CONTENT)
DECLARATION (STK_CMD_FETCH)
DECLARATION (STK_OPEN_CHANNEL_OD_NAR_CSD)
DECLARATION (STK_OPEN_CHANNEL_OD_NAR_CSD_CONTENT)
DECLARATION (STK_OPEN_CHANNEL_OD_AR_CSD)
DECLARATION (STK_OPEN_CHANNEL_OD_AR_CSD_CONTENT)
DECLARATION (STK_OPEN_CHANNEL_IM_NAR_CSD)
DECLARATION (STK_OPEN_CHANNEL_IM_NAR_CSD_CONTENT)
DECLARATION (STK_OPEN_CHANNEL_IM_AR_CSD)
DECLARATION (STK_OPEN_CHANNEL_IM_AR_CSD_CONTENT)
DECLARATION (STK_OPEN_CHANNEL_OD_NAR_GPRS)
DECLARATION (STK_OPEN_CHANNEL_OD_NAR_GPRS_CONTENT)
DECLARATION (STK_OPEN_CHANNEL_OD_AR_GPRS)
DECLARATION (STK_OPEN_CHANNEL_OD_AR_GPRS_CONTENT)
DECLARATION (STK_OPEN_CHANNEL_IM_NAR_GPRS)
DECLARATION (STK_OPEN_CHANNEL_IM_NAR_GPRS_CONTENT)
DECLARATION (STK_OPEN_CHANNEL_IM_AR_GPRS)
DECLARATION (STK_OPEN_CHANNEL_IM_AR_GPRS_CONTENT)
DECLARATION (STK_OPEN_CHANNEL_OD_UDP)
DECLARATION (STK_OPEN_CHANNEL_OD_UDP_CONTENT)
DECLARATION (STK_OPEN_CHANNEL_IM_UDP)
DECLARATION (STK_OPEN_CHANNEL_IM_UDP_CONTENT)
DECLARATION (STK_OPEN_CHANNEL_IM_SNDCP)
DECLARATION (STK_OPEN_CHANNEL_IM_SNDCP_CONTENT)
DECLARATION (STK_OPEN_CHANNEL_OD_SNDCP)
DECLARATION (STK_OPEN_CHANNEL_OD_SNDCP_CONTENT)
DECLARATION (STK_OPEN_CHANNEL_IM_L2R)
DECLARATION (STK_OPEN_CHANNEL_IM_L2R_CONTENT)
DECLARATION (STK_OPEN_CHANNEL_OD_L2R)
DECLARATION (STK_OPEN_CHANNEL_OD_L2R_CONTENT)
DECLARATION (STK_CLOSE_CHANNEL)
DECLARATION (STK_CLOSE_CHANNEL_CONTENT)
DECLARATION (STK_CLOSE_CHANNEL_UDP)
DECLARATION (STK_CLOSE_CHANNEL_UDP_CONTENT)
DECLARATION (STK_CLOSE_CHANNEL_SNDCP)
DECLARATION (STK_CLOSE_CHANNEL_SNDCP_CONTENT)
DECLARATION (STK_CLOSE_CHANNEL_L2R)
DECLARATION (STK_CLOSE_CHANNEL_L2R_CONTENT)
DECLARATION (STK_RCV_DATA)
DECLARATION (STK_RCV_DATA_CONTENT)
DECLARATION (STK_RCV_DATA_UDP_235)
DECLARATION (STK_RCV_DATA_UDP_235_CONTENT)

DECLARATION (STK_RCV_DATA_SNDCP_235)
DECLARATION (STK_RCV_DATA_SNDCP_235_CONTENT)
DECLARATION (STK_RCV_DATA_L2R_235)
DECLARATION (STK_RCV_DATA_L2R_235_CONTENT)
DECLARATION (STK_RCV_DATA_UDP_I_235)
DECLARATION (STK_RCV_DATA_UDP_I_235_CONTENT)
DECLARATION (STK_RCV_DATA_SNDCP_I_235)
DECLARATION (STK_RCV_DATA_SNDCP_I_235_CONTENT)
DECLARATION (STK_RCV_DATA_L2R_I_235)
DECLARATION (STK_RCV_DATA_L2R_I_235_CONTENT)
DECLARATION (STK_RCV_DATA_UDP_IA_235)
DECLARATION (STK_RCV_DATA_UDP_IA_235_CONTENT)
DECLARATION (STK_RCV_DATA_SNDCP_IA_235)
DECLARATION (STK_RCV_DATA_SNDCP_IA_235_CONTENT)
DECLARATION (STK_RCV_DATA_L2R_IA_235)
DECLARATION (STK_RCV_DATA_L2R_IA_235_CONTENT)
DECLARATION (STK_SEND_DATA_127)
DECLARATION (STK_SEND_DATA_127_CONTENT)
DECLARATION (STK_SEND_DATA_IM_127)
DECLARATION (STK_SEND_DATA_IM_127_CONTENT)
DECLARATION (STK_SEND_DATA_241)
DECLARATION (STK_SEND_DATA_241_CONTENT)
DECLARATION (STK_SEND_DATA_IM_241)
DECLARATION (STK_SEND_DATA_IM_241_CONTENT)
DECLARATION (STK_SEND_DATA_ST_UDP_127)
DECLARATION (STK_SEND_DATA_ST_UDP_127_CONTENT)
DECLARATION (STK_SEND_DATA_IM_UDP_127)
DECLARATION (STK_SEND_DATA_IM_UDP_127_CONTENT)
DECLARATION (STK_SEND_DATA_ST_UDP_241)
DECLARATION (STK_SEND_DATA_ST_UDP_241_CONTENT)
DECLARATION (STK_SEND_DATA_IM_UDP_241)
DECLARATION (STK_SEND_DATA_IM_UDP_241_CONTENT)
DECLARATION (STK_SEND_DATA_ST_SNDCP_127)
DECLARATION (STK_SEND_DATA_ST_SNDCP_127_CONTENT)
DECLARATION (STK_SEND_DATA_IM_SNDCP_127)
DECLARATION (STK_SEND_DATA_IM_SNDCP_127_CONTENT)
DECLARATION (STK_SEND_DATA_ST_SNDCP_241)
DECLARATION (STK_SEND_DATA_ST_SNDCP_241_CONTENT)
DECLARATION (STK_SEND_DATA_IM_SNDCP_241)
DECLARATION (STK_SEND_DATA_IM_SNDCP_241_CONTENT)
DECLARATION (STK_SEND_DATA_ST_L2R_127)
DECLARATION (STK_SEND_DATA_ST_L2R_127_CONTENT)
DECLARATION (STK_SEND_DATA_IM_L2R_127)
DECLARATION (STK_SEND_DATA_IM_L2R_127_CONTENT)
DECLARATION (STK_SEND_DATA_ST_L2R_241)
DECLARATION (STK_SEND_DATA_ST_L2R_241_CONTENT)
DECLARATION (STK_SEND_DATA_IM_L2R_241)
DECLARATION (STK_SEND_DATA_IM_L2R_241_CONTENT)
DECLARATION (STK_SEND_DATA_ST_UDP_I_228)
DECLARATION (STK_SEND_DATA_ST_UDP_I_228_CONTENT)
DECLARATION (STK_SEND_DATA_ST_UDP_IA_228)
DECLARATION (STK_SEND_DATA_ST_UDP_IA_228_CONTENT)
DECLARATION (STK_SEND_DATA_IM_UDP_I_228)
DECLARATION (STK_SEND_DATA_IM_UDP_I_228_CONTENT)
DECLARATION (STK_SEND_DATA_IM_UDP_IA_228)
DECLARATION (STK_SEND_DATA_IM_UDP_IA_228_CONTENT)
DECLARATION (STK_SEND_DATA_ST_SNDCP_I_228)
DECLARATION (STK_SEND_DATA_ST_SNDCP_I_228_CONTENT)

DECLARATION (STK_SEND_DATA_ST_SNDCP_IA_228)
DECLARATION (STK_SEND_DATA_ST_SNDCP_IA_228_CONTENT)
DECLARATION (STK_SEND_DATA_IM_SNDCP_I_228)
DECLARATION (STK_SEND_DATA_IM_SNDCP_I_228_CONTENT)
DECLARATION (STK_SEND_DATA_IM_SNDCP_IA_228)
DECLARATION (STK_SEND_DATA_IM_SNDCP_IA_228_CONTENT)
DECLARATION (STK_SEND_DATA_ST_L2R_I_228)
DECLARATION (STK_SEND_DATA_ST_L2R_I_228_CONTENT)
DECLARATION (STK_SEND_DATA_ST_L2R_IA_228)
DECLARATION (STK_SEND_DATA_ST_L2R_IA_228_CONTENT)
DECLARATION (STK_SEND_DATA_IM_L2R_I_228)
DECLARATION (STK_SEND_DATA_IM_L2R_I_228_CONTENT)
DECLARATION (STK_SEND_DATA_IM_L2R_IA_228)
DECLARATION (STK_SEND_DATA_IM_L2R_IA_228_CONTENT)
DECLARATION (STK_GET_CHANNEL_STATUS)
DECLARATION (STK_GET_CHANNEL_STATUS_CONTENT)
DECLARATION (STK_TERM_RESP_IM_UDP)
DECLARATION (STK_TERM_RESP_IM_UDP_CONTENT)
DECLARATION (STK_TERM_RESP_OD_UDP)
DECLARATION (STK_TERM_RESP_OD_UDP_CONTENT)
DECLARATION (STK_TERM_RESP_IM_SNDCP)
DECLARATION (STK_TERM_RESP_IM_SNDCP_CONTENT)
DECLARATION (STK_TERM_RESP_OD_SNDCP)
DECLARATION (STK_TERM_RESP_OD_SNDCP_CONTENT)
DECLARATION (STK_TERM_RESP_IM_L2R)
DECLARATION (STK_TERM_RESP_IM_L2R_CONTENT)
DECLARATION (STK_TERM_RESP_OD_L2R)
DECLARATION (STK_TERM_RESP_OD_L2R_CONTENT)
DECLARATION (STK_TERM_RESP_SD_ST_255)
DECLARATION (STK_TERM_RESP_SD_ST_255_CONTENT)
DECLARATION (STK_TERM_RESP_SD_IM_255)
DECLARATION (STK_TERM_RESP_SD_IM_255_CONTENT)
DECLARATION (STK_TERM_RESP_SD_SUSPEND)
DECLARATION (STK_TERM_RESP_SD_SUSPEND_CONTENT)
DECLARATION (STK_TERM_RESP_SD_CLOSED)
DECLARATION (STK_TERM_RESP_SD_CLOSED_CONTENT)
DECLARATION (STK_TERM_RESP_SD_INVALID)
DECLARATION (STK_TERM_RESP_SD_INVALID_CONTENT)
DECLARATION (STK_TERM_RESP_RD_235_235)
DECLARATION (STK_TERM_RESP_RD_235_235_CONTENT)
DECLARATION (STK_TERM_RESP_RD_235_0)
DECLARATION (STK_TERM_RESP_RD_235_0_CONTENT)
DECLARATION (STK_TERM_RESP_RD_0_0)
DECLARATION (STK_TERM_RESP_RD_0_0_CONTENT)
DECLARATION (STK_TERM_RESP_CLCH)
DECLARATION (STK_TERM_RESP_CLCH_CONTENT)
DECLARATION (STK_ENVELOPE_DA_UDP_255)
DECLARATION (STK_ENVELOPE_DA_UDP_255_CONTENT)
DECLARATION (STK_ENVELOPE_DA_SNDCP_255)
DECLARATION (STK_ENVELOPE_DA_SNDCP_255_CONTENT)
DECLARATION (STK_ENVELOPE_DA_L2R_255)
DECLARATION (STK_ENVELOPE_DA_L2R_255_CONTENT)
DECLARATION (EMPTY_SDU)
DECLARATION (SDU_SEND_UDP_228)
DECLARATION (SDU_SEND_UDP_241)
DECLARATION (SDU_SEND_UDP_254)
DECLARATION (SDU_SEND_UDP_456)
DECLARATION (SDU_SEND_UDP_482)

```
DECLARATION (SDU_SEND_UDP_469)
DECLARATION (SDU_SEND_228)
DECLARATION (SDU_SEND_241)
DECLARATION (SDU_SEND_254)
DECLARATION (SDU_SEND_456)
DECLARATION (SDU_SEND_469)
DECLARATION (SDU_SEND_482)
DECLARATION (SDU_RECEIVE_UDP_470)
DECLARATION (SDU_RECEIVE_470)
DECLARATION (EMPTY_STK_CMD)
DECLARATION (SIM_STATUS_STK)
DECLARATION (SIM_STATUS_STK_CONTENT)
DECLARATION (DTI_PARA_ST_LINES_BREAK_OFF)
DECLARATION (DTI_PARAMETER_FRAME_UOS)
DECLARATION (DTI_PARAMETER_FRAME_IP)

DECLARATION (STK_LAUNCH_BROWSER_INL_00)
DECLARATION (STK_LAUNCH_BROWSER_INL_00_CONTENT)
DECLARATION (STK_LAUNCH_BROWSER_INL)
DECLARATION (STK_LAUNCH_BROWSER_INL_CONTENT)
DECLARATION (STK_LAUNCH_BROWSER_UEB)
DECLARATION (STK_LAUNCH_BROWSER_UEB_CONTENT)
DECLARATION (STK_LAUNCH_BROWSER_CEB)
DECLARATION (STK_LAUNCH_BROWSER_CEB_CONTENT)

SHORT       FL_MODE_35_NR           2
SHORT       FL_MODE_211_NR          8

LONG        Bitm                    0x400000
BYTE        ENTITY                  0x08

/*
```

1.3 General Definitions

```
*/
BEGINARRAY (PIN_1_VALUE, 8)
                                    0x31,0x32,0x33,0x36,0xFF,0xFF,0xFF,0xFF
ENDARRAY

BEGINARRAY (PIN_1_WRONG, 8)
                                    0x31,0x32,0x33,0x37,0xFF,0xFF,0xFF,0xFF
ENDARRAY

BEGINARRAY (STK_NOT_SUPPORTED,12)
                                    0,0,0,0,0,0,0,0,0,0,0,0
ENDARRAY
BEGINARRAY (STK_SUPPORTED, 12)
                                    0x0F,0x13,0xFF,0xF7,0x00,0,0,0x04,0x04,0,0,0
ENDARRAY

BEGINARRAY (STK_FULL_CLASS2, 12)
                                    0x1F,0x77,0xFF,0xF7,0x00,0,0,0,0,0,0,0
ENDARRAY

BEGINARRAY (STK_FULL_CLASS3, 12)
                                    0x7F,0xFF,0xFF,0xFF,0x7F,0,0,0xDF,0x07,0,0,0
ENDARRAY
```

```
BEGINARRAY (STK_FULL_CLASSC, 12)
                                        0x7F,0xFF,0xFF,0xFF,0x7F,0x02,0,0xDF,0x47,0,0,0
ENDARRAY

BEGINARRAY (STK_FULL_CLASSE, 17)
        0x7F,0xFF,0xFF,0xFF,0x7F,0x0E,0,0xDF,0x07,0,0,0x1F,0x23,0,0,0,0x02
ENDARRAY

BEGINARRAY (NO_EC_CODES, 15)
                                        0xFF,0xFF,0xFF,0xFF,0xFF,
                                        0xFF,0xFF,0xFF,0xFF,0xFF,
                                        0xFF,0xFF,0xFF,0xFF,0xFF
ENDARRAY

BEGINARRAY (DEF_ATR, 2)
        0x3B, 0x00
ENDARRAY

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

BEGIN_PSTRUCT ("imsi_field", IMSI)
        SET_COMP ("c_field", 0x08)
        SET_COMP ("field", IMSI_CONTENT)
ENDSTRUCT

BEGINARRAY_PART (IMSI_CONTENT, 8)
                                        0x29, 0x26, 0x10,
                                        0x74, 0x11, 0x94,
                                        0x21, 0xFF
ENDARRAY

BEGIN_PSTRUCT ("imsi_field", NO_IMSI)
        SKIP_COMP ("c_field")
        SKIP_COMP ("field")
ENDSTRUCT

BEGIN_PSTRUCT ("loc_info", LOC_INFO)
        SET_COMP ("c_loc", 0x0B)
        SET_COMP ("loc", LOC_INFO_CONTENT)
ENDSTRUCT

BEGINARRAY (LOC_INFO_CONTENT, 11)
        0xFF, 0xFF, 0xFF, 0xFF,
        0x62, 0xF2, 0x10,
        0x00, 0x01,
        0x00, 0x00
ENDARRAY

BEGIN_PSTRUCT ("acc_ctrl", ACC_CTRL)
        SET_COMP ("c_acc", 0x02)
        SET_COMP ("acc", ACC_CTRL_CONTENT)
ENDSTRUCT

BEGINARRAY (ACC_CTRL_CONTENT, 2)
        0xFF, 0xFF
```

```
ENDARRAY

BEGIN_PSTRUCT ("bcch_inf", BCCH_INFO)
                SET_COMP ("c_bcch", 0x10)
                SET_COMP ("bcch", BCCH_INFO_CONTENT)
ENDSTRUCT
BEGINARRAY (BCCH_INFO_CONTENT, 16)
                                        0,0,0,0,
                                        0,0,0,0,
                                        0,0,0,0,
                                        0,0,0,0
ENDARRAY

BEGIN_PSTRUCT ("kc_n", KC_N)
                SET_COMP ("c_kc", 0x09)
                SET_COMP ("kc", KC_N_CONTENT)
ENDSTRUCT
BEGINARRAY (KC_N_CONTENT, 9)
                                        0x07, 0x06, 0x05,
                                        0x04, 0x03, 0x02,
                                        0x01, 0x00, 0x03
ENDARRAY

BEGIN_PSTRUCT ("pref_plmn", PREF_PLMN)
                SET_COMP ("c_pref", 0x1E)
                SET_COMP ("pref", PREF_PLMN_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (PREF_PLMN_CONTENT, 30)
                                        0x32, 0xF4, 0x01,
                                        0x32, 0xF4, 0x55,
                                        0x32, 0xF4, 0x05,
                                        0x32, 0xF4, 0x85,
                                        0x32, 0xF4, 0x03,
                                        0x32, 0xF4, 0x33,
                                        0x32, 0xF4, 0x51,
                                        0xFF, 0xFF, 0xFF,
                                        0xFF, 0xFF, 0xFF,
                                        0xFF, 0xFF, 0xFF
ENDARRAY

BEGIN_PSTRUCT ("forb_plmn", FORB_PLMN)
                SET_COMP ("c_forb", 0x0C)
                SET_COMP ("forb", FORB_PLMN_CONTENT)
ENDSTRUCT
BEGINARRAY (FORB_PLMN_CONTENT, 12)
                                        0xFF, 0xFF, 0xFF,
                                        0xFF, 0xFF, 0xFF,
                                        0xFF, 0xFF, 0xFF,
                                        0xFF, 0xFF, 0xFF
ENDARRAY

BEGINARRAY (SIM_SERV_PHASE_1, 16)
                                        0xCF, 0x3F, 0x00, 0x00,
                                        0x00, 0x00, 0x00, 0x00,
                                        0x00, 0x00, 0x00, 0x00,
                                        0x00, 0x00, 0x00, 0x00
ENDARRAY
```

```
BEGINARRAY (SIM_SERV_PHASE_1_NO_SMS, 16)
                                        0x0F, 0x3F, 0x00, 0x00,
                                        0x00, 0x00, 0x00, 0x00,
                                        0x00, 0x00, 0x00, 0x00,
                                        0x00, 0x00, 0x00, 0x00
ENDARRAY

BEGINARRAY (SIM_SERV_PHASE_2, 16)
                                        0xCF, 0xFF, 0x3F, 0x03,
                                        0xFF, 0x00, 0x00, 0x00,
                                        0x00, 0x00, 0x00, 0x00,
                                        0x00, 0x00, 0x00, 0x00
ENDARRAY

BEGINARRAY (SIM_SERV_PHASE_2_SMSR, 16)
                                        0xCF, 0xFF, 0x3F, 0x03,
                                        0xFF, 0x00, 0x00, 0x00,
                                        0x30, 0x00, 0x00, 0x00,
                                        0x00, 0x00, 0x00, 0x00
ENDARRAY

BEGINARRAY (SIM_SERV_PHASE_2_BOTH, 16)
                                        0xFF, 0x3F, 0xFF, 0x0F,
                                        0xFF, 0x00, 0x00, 0x00,
                                        0x00, 0x00, 0x00, 0x00,
                                        0x00, 0x00, 0x00, 0x00
ENDARRAY

BEGINARRAY (SIM_SERV_PHASE_2_FDN, 16)
                                        0xF3, 0x3F, 0xFF, 0x0F,
                                        0xFF, 0x00, 0x00, 0x00,
                                        0x00, 0x00, 0x00, 0x00,
                                        0x00, 0x00, 0x00, 0x00
ENDARRAY

BEGINARRAY (SIM_SERV_PHASE_2_FDN_BDN, 16)
                                        0xF3, 0x3F, 0xFF, 0x0F,
                                        0xFF, 0x00, 0x00, 0x30,
                                        0x00, 0x00, 0x00, 0x00,
                                        0x00, 0x00, 0x00, 0x00
ENDARRAY

BEGINARRAY (SIM_SERV_PHASE_2_ADN_BDN, 16)
                                        0xCF, 0x3F, 0xFF, 0x0F,
                                        0xFF, 0x00, 0x00, 0x30,
                                        0x00, 0x00, 0x00, 0x00,
                                        0x00, 0x00, 0x00, 0x00
ENDARRAY

BEGINARRAY (SIM_SERV_PHASE_2_PLUS, 16)
                                        0xCF, 0x3F, 0xFF, 0x0F,
                                        0x3F, 0x00, 0xFF, 0xF3,
                                        0x00, 0x00, 0x00, 0x00,
                                        0x00, 0x00, 0x00, 0x00
ENDARRAY
```

```
BEGINARRAY (SIM_SERV_PHASE_2_PLUS_X, 16)
                                        0xDC, 0x3F, 0xFF, 0x0F,
                                        0x3F, 0x00, 0xFF, 0xF3,
                                        0x00, 0x00, 0x00, 0x00,
                                        0x00, 0x00, 0x00, 0x00
ENDARRAY

BEGINARRAY (SIM_SERV_PHASE_2_PLUS_CL3, 16)
                                        0xCF, 0x3F, 0xFF, 0x0F,
                                        0x3F, 0x00, 0xFF, 0xF3,
                                        0x00, 0x33, 0x0F, 0x00,
                                        0x00, 0x00, 0x00, 0x00
ENDARRAY

BEGINARRAY (EC_CODES, 15)
                                        0x11, 0xF2, 0xFF,
                                        0x99, 0xF9, 0xFF,
                                        0xFF,0xFF,0xFF,0xFF,0xFF,
                                        0xFF,0xFF,0xFF,0xFF
ENDARRAY

BEGINARRAY_PART (LP_CODES, 2)
                                        0x00, 0x01
ENDARRAY

BEGINARRAY_PART (FILE_LIST_MODE_35, 4)
            0xE2, 0x2F, 0xAD, 0x6F      /*0x2FE2, 0x6FAD*/
ENDARRAY

BEGINARRAY_PART (FILE_LIST_MODE_211, 14)
            0x05, 0x2F, 0x3A, 0x6F, 0x4A, 0x6F, 0xAD, 0x6F,
            0x3C, 0x6F, 0x40, 0x6F, 0x48, 0x6F, 0x05, 0x6F
ENDARRAY

BEGINARRAY (EMPTY_ARRAY, 0)
            ZERO
ENDARRAY

BYTE        WIM_CMD_CLA0_CHAN0          0x00
BYTE        WIM_CMD_CLA0_CHAN1          0x01
BYTE        WIM_CMD_CLA8_CHAN1          0x81
BYTE        WIM_CMD_INS_OPEN_CHAN       0x70
BYTE        WIM_CMD_INS_SELECT          0xA4
BYTE        WIM_CMD_SELECT_P1_AID       0x04
BYTE        WIM_CMD_INS_GET_RESP        0xC0
BYTE        WIM_CMD_INS_READ_BINARY     0xB0
BYTE        WIM_CMD_INS_MSE_RESTORE     0x22
BYTE        WIM_CMD_MSE_RESTORE_P1      0xF3
BYTE        WIM_CMD_MSE_RESTORE_P2      0x02
BYTE        WIM_STAT_SW1_GET_RESP       0x61

BEGINARRAY (WIM_CMD_OPEN_CHANNEL, 5)
            0x00, 0x70, 0x00, 0x00, 0x01
ENDARRAY
BYTE        WIM_LEN_OPEN_CHANNEL        0x01
```

```
BEGINARRAY_PART (WIM_RSP_OPEN_CHANNEL, 0)
            0x01
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", WIM_TST_OPEN_CHANNEL)
            SET_COMP ("l_cmd", 8)
            SET_COMP ("o_cmd", 0x0000)
            SET_COMP ("cmd", WIM_RSP_OPEN_CHANNEL)
ENDSTRUCT

BYTE        WIM_LEN_SELECT_AID          0x0C
BEGINARRAY (WIM_CMD_SELECT_AID, 17)
            0x01, 0xA4, 0x04, 0x00, 0x0C,          /* header */
            0xA0, 0x00, 0x00, 0x00, 0x63, 0x50, 0x4B, 0x43, 0x53, 0x2D,
            0x31, 0x35
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", WIM_TST_SELECT_AID)
            SET_COMP ("l_cmd", WIM_LEN_SELECT_AID * 8)
            SET_COMP ("o_cmd", 0x0000)
            SET_COMP ("cmd", WIM_TST_SELECT_AID_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (WIM_TST_SELECT_AID_CONTENT, 12)
            0xA0, 0x00, 0x00, 0x00, 0x63, 0x50, 0x4B, 0x43, 0x53, 0x2D,
            0x31, 0x35
ENDARRAY

BYTE        WIM_LEN_SELECT_FILE         0x02
BEGINARRAY (WIM_CMD_SELECT_FILE_odf, 7)
            0x81, 0xA4, 0x00, 0x00, 0x02,          /* header */
            0x50, 0x31
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", WIM_TST_SELECT_FILE_odf)
            SET_COMP ("l_cmd", 0x02 * 8)
            SET_COMP ("o_cmd", 0x0000)
            SET_COMP ("cmd", WIM_TST_SELECT_FILE_CONTENT_odf)
ENDSTRUCT
BEGINARRAY_PART (WIM_TST_SELECT_FILE_CONTENT_odf, 2)
            0x50, 0x31
ENDARRAY
BEGINARRAY (WIM_CMD_SELECT_FILE_cdf, 7)
            0x81, 0xA4, 0x00, 0x00, 0x02,          /* header */
            0x50, 0x03
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", WIM_TST_SELECT_FILE_cdf)
            SET_COMP ("l_cmd", 0x02 * 8)
            SET_COMP ("o_cmd", 0x0000)
            SET_COMP ("cmd", WIM_TST_SELECT_FILE_CONTENT_cdf)
ENDSTRUCT
BEGINARRAY_PART (WIM_TST_SELECT_FILE_CONTENT_cdf, 2)
            0x50, 0x03
ENDARRAY

BYTE        WIM_STAT_SW2_SELECT_FILE    0x08
BEGINARRAY (WIM_CMD_GET_RESPONSE, 5)
            /*0x01*/ 0x81, 0xC0, 0x00, 0x00, WIM_STAT_SW2_SELECT_FILE
ENDARRAY
BEGINARRAY_PART (WIM_RSP_GET_RESPONSE_odf, WIM_STAT_SW2_SELECT_FILE)
            0x80, 0x02, 0x00, 0x50, 0xA0, 0x02, 0x01, 0x0B
ENDARRAY
```

```
BEGIN_PSTRUCT ("stk_cmd", WIM_TST_GET_RESPONSE_odf)
            SET_COMP ("l_cmd", WIM_STAT_SW2_SELECT_FILE * 8)
            SET_COMP ("o_cmd", 0x0000)
            SET_COMP ("cmd", WIM_RSP_GET_RESPONSE_odf)
ENDSTRUCT
BEGINARRAY_PART (WIM_RSP_GET_RESPONSE_cdf, WIM_STAT_SW2_SELECT_FILE)
            0x80, 0x02, 0x05, 0x00, 0xA0, 0x02, 0x01, 0x0B
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", WIM_TST_GET_RESPONSE_cdf)
            SET_COMP ("l_cmd", WIM_STAT_SW2_SELECT_FILE * 8)
            SET_COMP ("o_cmd", 0x0000)
            SET_COMP ("cmd", WIM_RSP_GET_RESPONSE_cdf)
ENDSTRUCT

BYTE        WIM_LEN_READ_BINARY_odf      0x50
BEGINARRAY (WIM_CMD_READ_BINARY_odf, 5)
            0x81, 0xB0, 0x00, 0x00, 0x50
ENDARRAY
BEGINARRAY_PART (WIM_RSP_READ_BINARY_odf, WIM_STAT_SW2_SELECT_FILE)
            0xA0, 0x06, 0x30, 0x04, 0x04, 0x02, 0x50, 0x01, 0xA4, 0x06,
            0x30, 0x04, 0x04, 0x02, 0x50, 0x03, 0xA5, 0x06, 0x30, 0x04,
            0x04, 0x02, 0x50, 0x05, 0xA7, 0x06, 0x30, 0x04, 0x04, 0x02,
            0x50, 0x04, 0xA8, 0x06, 0x30, 0x04, 0x04, 0x02, 0x50, 0x00,
            0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00,
            0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 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
BEGIN_PSTRUCT ("stk_cmd", WIM_TST_READ_BINARY_odf)
            SET_COMP ("l_cmd", WIM_LEN_READ_BINARY_odf * 8)
            SET_COMP ("o_cmd", 0x0000)
            SET_COMP ("cmd", WIM_RSP_READ_BINARY_odf)
ENDSTRUCT
BEGINARRAY (WIM_CMD_READ_BINARY_FALSE, 5)
            0x81, 0xB0, 0x00, 0x00, 0x00
ENDARRAY

BEGINARRAY (WIM_CMD_MSE_RESTORE, 4)
            0x81, 0x22, 0xF3, 0x02
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_ENVELOPE)
            SET_COMP ("l_cmd", 0x0072)
            SET_COMP ("o_cmd", 0x0000)
            SET_COMP ("cmd", STK_ENVELOPE_CONTENT)
ENDSTRUCT

BEGINARRAY_PART (STK_ENVELOPE_CONTENT, 9)
                                    0xD3,       /* menu selection tag          */
                                    7,          /* length                      */
                                    2,          /* device details tag          */
                                    2,          /* device details length       */
                                    0x83,       /* source SIM                  */
                                    0x81,       /* destination Display         */
                                    0x10,       /* item identifier tag         */
                                    1,          /* item identifier length      */
                                    7           /* item identifier number      */
ENDARRAY
```

```
BEGINARRAY (STK_CC, 10)
                                        0, 0x02, 0,0,0,0,0,0,0,0
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_DISPLAY_TEXT_SHORT)
            SET_COMP ("l_cmd", 0x0140)
            SET_COMP ("o_cmd", 0x0000)
            SET_COMP ("cmd", STK_DISPLAY_TEXT_SHORT_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_DISPLAY_TEXT_SHORT_CONTENT, 40)
                                        0xD0,       /* proactive SIM command tag    */
                                        38,         /* following length             */
                                        0x81,       /* command details tag          */
                                        3,          /* command details length       */
                                        1,          /* command number               */
                                        0x21,       /* command DISPLAY TEXT         */
                                        1,          /* high priority                */
                                        0x82,       /* device details tag           */
                                        2,          /* device details length        */
                                        0x81,       /* source SIM                   */
                                        0x02,       /* destination Display          */
                                        0x8D,       /* text string tag              */
                                        27,         /* text string length           */
                                        0,          /* data coding scheme 8 bit     */
                                        0x41, 0x42, 0x43, 0x44, 0x45,   /* text     */
                                        0x46, 0x47, 0x48, 0x49, 0x4A,
                                        0x4B, 0x4C, 0x4D, 0x4E, 0x4F,
                                        0x50, 0x51, 0x52, 0x53, 0x54,
                                        0x55, 0x56, 0x57, 0x58, 0x59,
                                        0x5A
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_DISPLAY_TEXT_LONG)
            SET_COMP ("l_cmd", 0x0490)
            SET_COMP ("o_cmd", 0x0000)
            SET_COMP ("cmd", STK_DISPLAY_TEXT_LONG_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_DISPLAY_TEXT_LONG_CONTENT, 146)
                                        0xD0,       /* proactive SIM command tag    */
                                        0x81, 143,  /* following length             */
                                        0x81,       /* command details tag          */
                                        3,          /* command details length       */
                                        2,          /* command number               */
                                        0x21,       /* command DISPLAY TEXT         */
                                        1,          /* high priority                */
                                        0x82,       /* device details tag           */
                                        2,          /* device details length        */
                                        0x81,       /* source SIM                   */
                                        0x02,       /* destination Display          */
                                        0x8D,       /* text string tag              */
                                        0x81, 131,  /* text string length           */
                                        0,          /* data coding scheme 8 bit     */
                                        0x41, 0x42, 0x43, 0x44, 0x45,   /* text     */
                                        0x46, 0x47, 0x48, 0x49, 0x4A,
                                        0x4B, 0x4C, 0x4D, 0x4E, 0x4F,
                                        0x50, 0x51, 0x52, 0x53, 0x54,
                                        0x55, 0x56, 0x57, 0x58, 0x59,
```

```
                                        0x5A,
                                        0x41, 0x42, 0x43, 0x44, 0x45,   /* text                 */
                                        0x46, 0x47, 0x48, 0x49, 0x4A,
                                        0x4B, 0x4C, 0x4D, 0x4E, 0x4F,
                                        0x50, 0x51, 0x52, 0x53, 0x54,
                                        0x55, 0x56, 0x57, 0x58, 0x59,
                                        0x5A,
                                        0x41, 0x42, 0x43, 0x44, 0x45,   /* text                 */
                                        0x46, 0x47, 0x48, 0x49, 0x4A,
                                        0x4B, 0x4C, 0x4D, 0x4E, 0x4F,
                                        0x50, 0x51, 0x52, 0x53, 0x54,
                                        0x55, 0x56, 0x57, 0x58, 0x59,
                                        0x5A,
                                        0x41, 0x42, 0x43, 0x44, 0x45,   /* text                 */
                                        0x46, 0x47, 0x48, 0x49, 0x4A,
                                        0x4B, 0x4C, 0x4D, 0x4E, 0x4F,
                                        0x50, 0x51, 0x52, 0x53, 0x54,
                                        0x55, 0x56, 0x57, 0x58, 0x59,
                                        0x5A,
                                        0x41, 0x42, 0x43, 0x44, 0x45,   /* text                 */
                                        0x46, 0x47, 0x48, 0x49, 0x4A,
                                        0x4B, 0x4C, 0x4D, 0x4E, 0x4F,
                                        0x50, 0x51, 0x52, 0x53, 0x54,
                                        0x55, 0x56, 0x57, 0x58, 0x59,
                                        0x5A
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_GET_INKEY)
          SET_COMP ("l_cmd", 0x0140)
          SET_COMP ("o_cmd", 0x0000)
          SET_COMP ("cmd", STK_GET_INKEY_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_GET_INKEY_CONTENT, 40)
                                        0xD0,       /* proactive SIM command tag      */
                                        38,         /* following length               */
                                        0x81,       /* command details tag            */
                                        3,          /* command details length         */
                                        3,          /* command number                 */
                                        0x22,       /* command GET INKEY              */
                                        1,          /* sms default alphabet           */
                                        0x82,       /* device details tag             */
                                        2,          /* device details length          */
                                        0x81,       /* source SIM                     */
                                        0x82,       /* destination ME                 */
                                        0x8D,       /* text string tag                */
                                        27,         /* text string length             */
                                        0,          /* data coding scheme 8 bit       */
                                        0x41, 0x42, 0x43, 0x44, 0x45,   /* text                 */
                                        0x46, 0x47, 0x48, 0x49, 0x4A,
                                        0x4B, 0x4C, 0x4D, 0x4E, 0x4F,
                                        0x50, 0x51, 0x52, 0x53, 0x54,
                                        0x55, 0x56, 0x57, 0x58, 0x59,
                                        0x5A
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_GET_INPUT)
          SET_COMP ("l_cmd", 0x0160)
          SET_COMP ("o_cmd", 0x0000)
```

```
        SET_COMP ("cmd", STK_GET_INPUT_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_GET_INPUT_CONTENT, 44)
                                0xD0,           /* proactive SIM command tag        */
                                42,             /* following length                 */
                                0x81,           /* command details tag              */
                                3,              /* command details length           */
                                4,              /* command number                   */
                                0x23,           /* command GET INPUT                */
                                1,              /* sms default alphabet             */
                                0x82,           /* device details tag               */
                                2,              /* device details length            */
                                0x81,           /* source SIM                       */
                                0x82,           /* destination ME                   */
                                0x8D,           /* text string tag                  */
                                27,             /* text string length               */
                                0,              /* data coding scheme 8 bit         */
                                0x41, 0x42, 0x43, 0x44, 0x45,   /* text             */
                                0x46, 0x47, 0x48, 0x49, 0x4A,
                                0x4B, 0x4C, 0x4D, 0x4E, 0x4F,
                                0x50, 0x51, 0x52, 0x53, 0x54,
                                0x55, 0x56, 0x57, 0x58, 0x59,
                                0x5A,
                                0x91,           /* response length tag              */
                                2,              /* response length length           */
                                3,              /* minimum response length          */
                                10              /* maximum response length          */
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_PLAY_TONE)
        SET_COMP ("l_cmd", 0x0070)
        SET_COMP ("o_cmd", 0x0000)
        SET_COMP ("cmd", STK_PLAY_TONE_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_PLAY_TONE_CONTENT, 13)
                                0xD0,           /* proactive SIM command tag        */
                                12,             /* following length                 */
                                0x81,           /* command details tag              */
                                3,              /* command details length           */
                                5,              /* command number                   */
                                0x20,           /* command PLAY TONE                */
                                0,              /* not used                         */
                                0x82,           /* device details tag               */
                                2,              /* device details length            */
                                0x81,           /* source SIM                       */
                                0x03,           /* destination earpiece             */
                                0x0E,           /* tone string tag                  */
                                1,              /* tone length                      */
                                1               /* dial tone                        */
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_REFRESH)
        SET_COMP ("l_cmd", 0x00C0)
        SET_COMP ("o_cmd", 0x0000)
        SET_COMP ("cmd", STK_REFRESH_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_REFRESH_CONTENT, 24)
                                0xD0,           /* proactive SIM command tag        */
```

```
                                        22,             /* following length                 */
                                        0x81,           /* command details tag              */
                                        3,              /* command details length           */
                                        0xFE,           /* command number                   */
                                        1,              /* command REFRESH                  */
                                        3,              /* SIM initialization               */
                                        0x82,           /* device details tag               */
                                        2,              /* device details length            */
                                        0x81,           /* source SIM                       */
                                        0x82,           /* destination ME                   */
                                        0x12,           /* file list tag                    */
                                        11,             /* file list length                 */
                                        2,              /* number of files                  */
                                        0x3F, 0x00, 0x2F, 0xE2,   /* files                  */
                                        0x3F, 0x00, 0x7F, 0x20, 0x6F, 0xAD
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_SET_UP_MENU)
                SET_COMP ("l_cmd", 0x0138)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_SET_UP_MENU_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_SET_UP_MENU_CONTENT, 39)
                                        0xD0,           /* proactive SIM command tag        */
                                        37,             /* following length                 */
                                        0x81,           /* command details tag              */
                                        3,              /* command details length           */
                                        6,              /* command number                   */
                                        0x25,           /* command SET UP MENU              */
                                        0,              /* not used                         */
                                        0x82,           /* device details tag               */
                                        2,              /* device details length            */
                                        0x81,           /* source SIM                       */
                                        0x82,           /* destination ME                   */
                                        0x85,           /* alpha identifier tag             */
                                        10,             /* alpha identifier length          */
                                        0x4D, 0x45, 0x4E, 0x55, 0x20,   /* menu title     */
                                        0x54, 0x49, 0x54, 0x4C, 0x45,
                                        0x8F,           /* item tag                         */
                                        6,              /* item length                      */
                                        0x49, 0x54, 0x45,   /* item 1                       */
                                        0x4d, 0x20, 0x31,
                                        0x0F,           /* item tag                         */
                                        6,              /* item length                      */
                                        0x49, 0x54, 0x45,   /* item 2                       */
                                        0x4d, 0x20, 0x32
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_SELECT_ITEM)
                SET_COMP ("l_cmd", 0x00D8)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_SELECT_ITEM_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_SELECT_ITEM_CONTENT, 26)
                                        0xD0,           /* proactive SIM command tag        */
                                        25,             /* following length                 */
                                        0x81,           /* command details tag              */
                                        3,              /* command details length           */
```

```
                                        7,              /* command number                */
                                        0x24,           /* command SELECT ITEM           */
                                        0,              /* not used                      */
                                        0x82,           /* device details tag            */
                                        2,              /* device details length         */
                                        0x81,           /* source SIM                    */
                                        0x82,           /* destination ME                */
                                        0x8F,           /* item tag                      */
                                        6,              /* item length                   */
                                        0x49, 0x54, 0x45,   /* item 1                    */
                                        0x4d, 0x20, 0x31,
                                        0x0F,           /* item tag                      */
                                        6,              /* item length                   */
                                        0x49, 0x54, 0x45,   /* item 2                    */
                                        0x4d, 0x20, 0x32
ENDARRAY
BEGIN_PSTRUCT ("stk_cmd", STK_SEND_SMS)
                SET_COMP ("l_cmd", 0x0108)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_SEND_SMS_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_SEND_SMS_CONTENT, 33)
                                        0xD0,           /* proactive SIM command tag     */
                                        31,             /* following length              */
                                        0x81,           /* command details tag           */
                                        3,              /* command details length        */
                                        8,              /* command number                */
                                        0x23,           /* command SEND SMS              */
                                        0,              /* not used                      */
                                        0x82,           /* device details tag            */
                                        2,              /* device details length         */
                                        0x81,           /* source SIM                    */
                                        0x83,           /* destination Network           */
                                        0x8B,           /* SMS TPDU tag                  */
                                        20,             /* SMS TPDU length               */
                                        1,2,3,4,5,      /* SMS TPDU                      */
                                        6,7,8,9,10,
                                        11,12,13,14,15,
                                        16,17,18,19,20
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_SEND_SS)
                SET_COMP ("l_cmd", 0x00A0)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_SEND_SS_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_SEND_SS_CONTENT, 20)
                                        0xD0,           /* proactive SIM command tag     */
                                        18,             /* following length              */
                                        0x81,           /* command details tag           */
                                        3,              /* command details length        */
                                        9,              /* command number                */
                                        0x11,           /* command SEND SS               */
                                        0,              /* not used                      */
                                        0x82,           /* device details tag            */
                                        2,              /* device details length         */
                                        0x81,           /* source SIM                    */
                                        0x83,           /* destination Network           */
```

```
                                        0x89,           /* SS string tag                */
                                        7,              /* SS string length             */
                                        145,            /* TON and NPI                  */
                                        0x2a, 0x23,     /* SS String                    */
                                        0x33, 0x33,
                                        0x30, 0x23
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_SET_UP_CALL)
        SET_COMP ("l_cmd", 0x00A0)
        SET_COMP ("o_cmd", 0x0000)
        SET_COMP ("cmd", STK_SET_UP_CALL_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_SET_UP_CALL_CONTENT, 20)
                                        0xD0,           /* proactive SIM command tag    */
                                        18,             /* following length             */
                                        0x81,           /* command details tag          */
                                        3,              /* command details length       */
                                        10,             /* command number               */
                                        0x10,           /* command SET UP CALL          */
                                        0,              /* not used                     */
                                        0x82,           /* device details tag           */
                                        2,              /* device details length        */
                                        0x81,           /* source SIM                   */
                                        0x83,           /* destination Network          */
                                        0x86,           /* address tag                  */
                                        7,              /* address length               */
                                        145,            /* TON and NPI                  */
                                        0x12, 0x23,     /* dialling numbers             */
                                        0x45, 0x67,
                                        0x98, 0x74
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_PLI_DTT)
        SET_COMP ("l_cmd", 0x0058)
        SET_COMP ("o_cmd", 0x0000)
        SET_COMP ("cmd", STK_PLI_DTT_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_PLI_DTT_CONTENT, 11)
                                        0xD0,           /* proactive SIM command tag    */
                                        9,              /* following length             */
                                        0x81,           /* command details tag          */
                                        3,              /* command details length       */
                                        15,             /* command number               */
                                        0x26,           /* command SET UP CALL          */
                                        0x03,           /* not used                     */
                                        0x82,           /* device details tag           */
                                        2,              /* device details length        */
                                        0x81,           /* source SIM                   */
                                        0x82            /* destination Network          */
ENDARRAY

BEGIN_PSTRUCT ("loc_info", LAI_262_01_0033)
        SET_COMP ("c_loc", 0x0B)
        SET_COMP ("loc", LAI_262_01_0033_CONTENT)
ENDSTRUCT
BEGINARRAY (LAI_262_01_0033_CONTENT, 11)
                                        0,0,0,0,        /* tmsi                         */
```

```
                                        0x62,0xF2,      /* MCC & MNC                    */
                                        0x10,
                                        0x00,0x33,      /* LAC                          */
                                        0,0             /* lup time + update status     */
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_TERM_RESP_DISPLAY_TEXT)
        SET_COMP ("l_cmd", 0x0060)
        SET_COMP ("o_cmd", 0x0000)
        SET_COMP ("cmd", STK_TERM_RESP_DISPLAY_TEXT_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_TERM_RESP_DISPLAY_TEXT_CONTENT, 12)
                                        0x81,           /* command details tag          */
                                        3,              /* command details length       */
                                        1,              /* command number               */
                                        0x21,           /* command DISPLAY TEXT         */
                                        1,              /* high priority                */
                                        0x82,           /* device details tag           */
                                        2,              /* device details length        */
                                        0x82,           /* source ME                    */
                                        0x81,           /* destination SIM              */
                                        0x83,           /* result tag                   */
                                        1,              /* result length                */
                                        0               /* result OK                    */
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_NO_RESPONSE)
        SET_COMP ("l_cmd", 0x0000)
        SET_COMP ("o_cmd", 0x0000)
        SKIP_COMP ("cmd")
ENDSTRUCT

BEGIN_PSTRUCT ("stk_cmd", STK_RESPONSE)
        SET_COMP ("l_cmd", 0x0040)
        SET_COMP ("o_cmd", 0x0000)
        SET_COMP ("cmd", STK_RESPONSE_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_RESPONSE_CONTENT, 8)
        1,2,3,4,                /* response data                                    */
        5,6,7,8
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_TERMINAL_RESPONSE)
        SET_COMP ("l_cmd", 0x0060)
        SET_COMP ("o_cmd", 0x0000)
        SET_COMP ("cmd", STK_TERMINAL_RESPONSE_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_TERMINAL_RESPONSE_CONTENT, 12)
                                        0x81,           /* command details tag          */
                                        3,              /* command details length       */
                                        4,              /* command number               */
                                        2,              /* command MORE TIME            */
                                        0,              /* not used                     */
                                        0x82,           /* device details tag           */
                                        2,              /* device details length        */
                                        0x82,           /* source ME                    */
                                        0x81,           /* destination SIM              */
                                        0x83,           /* result tag                   */
```

```
                                        1,          /* result length                */
                                        0           /* result OK                    */
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_TERM_RESP_PLAY_TONE)
                SET_COMP ("l_cmd", 0x0060)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_TERM_RESP_PLAY_TONE_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_TERM_RESP_PLAY_TONE_CONTENT, 12)
                                        0x81,       /* command details tag          */
                                        3,          /* command details length       */
                                        5,          /* command number               */
                                        0x20,       /* command MORE TIME            */
                                        0,          /* not used                     */
                                        0x82,       /* device details tag           */
                                        2,          /* device details length        */
                                        0x82,       /* source ME                    */
                                        0x81,       /* destination SIM              */
                                        0x83,       /* result tag                   */
                                        1,          /* result length                */
                                        0           /* result OK                    */
ENDARRAY

/*
```

1.4 SAT classe c/e

1.4.1 Open Channel

```
*/

BEGIN_PSTRUCT ("stk_cmd", STK_OPEN_CHANNEL_OD_NAR_CSD)
                SET_COMP ("l_cmd", 0x0E0)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_OPEN_CHANNEL_OD_NAR_CSD_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_OPEN_CHANNEL_OD_NAR_CSD_CONTENT, 28)
                OP_CH_HEADER_1,
                (QLF_OPCH_ON_DEMD_LINK_EST | QLF_OPCH_NO_AUTO_RECONNECT),
                OP_CH_TRAILER_1
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_OPEN_CHANNEL_OD_AR_CSD)
                SET_COMP ("l_cmd", 0x0E0)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_OPEN_CHANNEL_OD_AR_CSD_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_OPEN_CHANNEL_OD_AR_CSD_CONTENT, 28)
                OP_CH_HEADER_1,
                (QLF_OPCH_ON_DEMD_LINK_EST | QLF_OPCH_AUTO_RECONNECT),
                OP_CH_TRAILER_1
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_OPEN_CHANNEL_IM_NAR_CSD)
                SET_COMP ("l_cmd", 0x0E0)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_OPEN_CHANNEL_IM_NAR_CSD_CONTENT)
ENDSTRUCT
```

```
BEGINARRAY_PART (STK_OPEN_CHANNEL_IM_NAR_CSD_CONTENT, 28)
                OP_CH_HEADER_1,
                (QLF_OPCH_IMMDT_LINK_EST | QLF_OPCH_NO_AUTO_RECONNECT),
                OP_CH_TRAILER_1
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_OPEN_CHANNEL_IM_AR_CSD)
                SET_COMP ("l_cmd", 0x0E0)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_OPEN_CHANNEL_IM_AR_CSD_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_OPEN_CHANNEL_IM_AR_CSD_CONTENT, 28)
                OP_CH_HEADER_1,
                (QLF_OPCH_IMMDT_LINK_EST | QLF_OPCH_AUTO_RECONNECT),
                OP_CH_TRAILER_1
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_OPEN_CHANNEL_OD_NAR_GPRS)
                SET_COMP ("l_cmd", 0x0F8)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_OPEN_CHANNEL_OD_NAR_GPRS_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_OPEN_CHANNEL_OD_NAR_GPRS_CONTENT, 31)
                OP_CH_HEADER_2,
                (QLF_OPCH_ON_DEMD_LINK_EST | QLF_OPCH_NO_AUTO_RECONNECT),
                OP_CH_TRAILER_2
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_OPEN_CHANNEL_OD_AR_GPRS)
                SET_COMP ("l_cmd", 0x0F8)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_OPEN_CHANNEL_OD_AR_GPRS_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_OPEN_CHANNEL_OD_AR_GPRS_CONTENT, 31)
                OP_CH_HEADER_2,
                (QLF_OPCH_ON_DEMD_LINK_EST | QLF_OPCH_AUTO_RECONNECT),
                OP_CH_TRAILER_2
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_OPEN_CHANNEL_IM_NAR_GPRS)
                SET_COMP ("l_cmd", 0x0F8)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_OPEN_CHANNEL_IM_NAR_GPRS_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_OPEN_CHANNEL_IM_NAR_GPRS_CONTENT, 31)
                OP_CH_HEADER_2,
                (QLF_OPCH_IMMDT_LINK_EST | QLF_OPCH_NO_AUTO_RECONNECT),
                OP_CH_TRAILER_2
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_OPEN_CHANNEL_IM_AR_GPRS)
                SET_COMP ("l_cmd", 0x0F8)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_OPEN_CHANNEL_IM_AR_GPRS_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_OPEN_CHANNEL_IM_AR_GPRS_CONTENT, 31)
                OP_CH_HEADER_2,
                (QLF_OPCH_IMMDT_LINK_EST | QLF_OPCH_AUTO_RECONNECT),
```

```
                OP_CH_TRAILER_2
ENDARRAY

/*
 * UDP messages
 */
BEGIN_PSTRUCT ("stk_cmd", STK_OPEN_CHANNEL_OD_UDP)
                SET_COMP ("l_cmd", 0x0140)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_OPEN_CHANNEL_OD_UDP_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_OPEN_CHANNEL_OD_UDP_CONTENT, 40)
                PROACTIVE_SIM_CMD_TAG,
                38,                     /* following length */
                CMD_DETAILS_TAG,
                3,                      /* command details length */
                1,                      /* command number */
                SAT_CMD_OPEN_CHANNEL,
                (QLF_OPCH_ON_DEMD_LINK_EST | QLF_OPCH_NO_AUTO_RECONNECT),
                DEV_ID_TAG,
                2,                      /* length */
                DEV_SRC_SIM,
                DEV_DST_ME,
                ADDR_TAG,
                5,                      /* address length */
                145,                    /* TON and NPI */
                0x31, 0x33,             /* dialling numbers */
                0x34, 0x35,             /* dialling numbers */
                BEAR_DESC_TAG,
                4,                      /* length */
                BT_CSD,
                12,                     /* speed */
                2,                      /* name: PAD Access (async) (UDI) */
                0,                      /* connection element: transparent */
                BUF_SIZE_TAG,
                2,                      /* length */
                0x02, 0x32,             /* buffer size of 562 bytes */
                SIM_ME_TRANS_TAG,
                3,                      /* length */
                UDP,
                DESTINATION_PORT_1,     /* port number 1800 */
                DESTINATION_PORT_2,
                DEST_ADDR_TAG,
                5,                      /* length */
                IPv4,
                DESTINATION_IP_1,       /* Address: 10.11.12.13 */
                DESTINATION_IP_2,
                DESTINATION_IP_3,
                DESTINATION_IP_4
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_OPEN_CHANNEL_IM_UDP)
                SET_COMP ("l_cmd", 0x0140)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_OPEN_CHANNEL_IM_UDP_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_OPEN_CHANNEL_IM_UDP_CONTENT, 40)
                PROACTIVE_SIM_CMD_TAG,
```

```
                38,                         /* following length */
                CMD_DETAILS_TAG,
                3,                          /* command details length */
                1,                          /* command number */
                SAT_CMD_OPEN_CHANNEL,
                (QLF_OPCH_IMMDT_LINK_EST | QLF_OPCH_NO_AUTO_RECONNECT),
                DEV_ID_TAG,
                2,                          /* length */
                DEV_SRC_SIM,
                DEV_DST_ME,
                ADDR_TAG,
                5,                          /* address length */
                145,                        /* TON and NPI */
                0x31, 0x33,                 /* dialling numbers */
                0x34, 0x35,                 /* dialling numbers */
                BEAR_DESC_TAG,
                4,                          /* length */
                BT_CSD,
                12,                         /* speed */
                2,                          /* name: PAD Access (async) (UDI) */
                0,                          /* connection element: transparent */
                BUF_SIZE_TAG,
                2,                          /* length */
                0x02, 0x32,                 /* buffer size of 562 bytes */
                SIM_ME_TRANS_TAG,
                3,                          /* length */
                UDP,
                DESTINATION_PORT_1,         /* port number 1800 */
                DESTINATION_PORT_2,
                DEST_ADDR_TAG,
                5,                          /* length */
                IPv4,
                DESTINATION_IP_1,           /* Address: 10.11.12.13 */
                DESTINATION_IP_2,
                DESTINATION_IP_3,
                DESTINATION_IP_4
ENDARRAY

/*
 * SNDCP messages
 */
BEGIN_PSTRUCT ("stk_cmd", STK_OPEN_CHANNEL_IM_SNDCP)
                SET_COMP ("l_cmd", 0x0090)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_OPEN_CHANNEL_IM_SNDCP_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_OPEN_CHANNEL_IM_SNDCP_CONTENT, 18)
                PROACTIVE_SIM_CMD_TAG,
                16,                         /* following length */
                CMD_DETAILS_TAG,
                3,                          /* command details length */
                1,                          /* command number */
                SAT_CMD_OPEN_CHANNEL,
                (QLF_OPCH_IMMDT_LINK_EST | QLF_OPCH_NO_AUTO_RECONNECT),
                DEV_ID_TAG,
                2,                          /* length */
                DEV_SRC_SIM,
                DEV_DST_ME,
```

```
                BEAR_DESC_TAG,
                1,                      /* length */
                BT_DEFAULT,
                BUF_SIZE_TAG,
                2,                      /* length */
                0x02, 0x32              /* buffer size of 562 bytes */
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_OPEN_CHANNEL_OD_SNDCP)
                SET_COMP ("l_cmd", 0x0090)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_OPEN_CHANNEL_OD_SNDCP_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_OPEN_CHANNEL_OD_SNDCP_CONTENT, 18)
                PROACTIVE_SIM_CMD_TAG,
                16,                     /* following length */
                CMD_DETAILS_TAG,
                3,                      /* command details length */
                1,                      /* command number */
                SAT_CMD_OPEN_CHANNEL,
                (QLF_OPCH_ON_DEMD_LINK_EST | QLF_OPCH_NO_AUTO_RECONNECT),
                DEV_ID_TAG,
                2,                      /* length */
                DEV_SRC_SIM,
                DEV_DST_ME,
                BEAR_DESC_TAG,
                1,                      /* length */
                BT_DEFAULT,
                BUF_SIZE_TAG,
                2,                      /* length */
                0x02, 0x32              /* buffer size of 562 bytes */
ENDARRAY

/*
 * L2R messages
 */
BEGIN_PSTRUCT ("stk_cmd", STK_OPEN_CHANNEL_IM_L2R)
                SET_COMP ("l_cmd", 0x00e0)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_OPEN_CHANNEL_IM_L2R_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_OPEN_CHANNEL_IM_L2R_CONTENT, 28)
                PROACTIVE_SIM_CMD_TAG,
                26,                     /* following length */
                CMD_DETAILS_TAG,
                3,                      /* command details length */
                1,                      /* command number */
                SAT_CMD_OPEN_CHANNEL,
                (QLF_OPCH_IMMDT_LINK_EST | QLF_OPCH_NO_AUTO_RECONNECT),
                DEV_ID_TAG,
                2,                      /* length */
                DEV_SRC_SIM,
                DEV_DST_ME,
                ADDR_TAG,
                5,                      /* address length */
                145,                    /* TON and NPI */
                0x31, 0x33,             /* dialling numbers */
                0x34, 0x35,             /* dialling numbers */
```

```
                BEAR_DESC_TAG,
                4,                      /* length */
                BT_CSD,
                12,                     /* speed */
                2,                      /* name: PAD Access (async) (UDI) */
                1,                      /* connection element: non-transparent */
                BUF_SIZE_TAG,
                2,                      /* length */
                0x02, 0x32              /* buffer size of 562 bytes */
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_OPEN_CHANNEL_OD_L2R)
                SET_COMP ("l_cmd", 0x00e0)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_OPEN_CHANNEL_OD_L2R_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_OPEN_CHANNEL_OD_L2R_CONTENT, 28)
                PROACTIVE_SIM_CMD_TAG,
                26,                     /* following length */
                CMD_DETAILS_TAG,
                3,                      /* command details length */
                1,                      /* command number */
                SAT_CMD_OPEN_CHANNEL,
                (QLF_OPCH_ON_DEMD_LINK_EST | QLF_OPCH_NO_AUTO_RECONNECT),
                DEV_ID_TAG,
                2,                      /* length */
                DEV_SRC_SIM,
                DEV_DST_ME,
                ADDR_TAG,
                5,                      /* address length */
                145,                    /* TON and NPI */
                0x31, 0x33,             /* dialling numbers */
                0x34, 0x35,             /* dialling numbers */
                BEAR_DESC_TAG,
                4,                      /* length */
                BT_CSD,
                12,                     /* speed */
                2,                      /* name: PAD Access (async) (UDI) */
                1,                      /* connection element: non-transparent */
                BUF_SIZE_TAG,
                2,                      /* length */
                0x02, 0x32              /* buffer size of 562 bytes */
ENDARRAY

/*
```

1.4.2 Close Channel

```
*/

BEGIN_PSTRUCT ("stk_cmd", STK_CLOSE_CHANNEL)
                SET_COMP ("l_cmd", 0x58)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_CLOSE_CHANNEL_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_CLOSE_CHANNEL_CONTENT, 11)
                PROACTIVE_SIM_CMD_TAG,
                9,                      /* following length      */
                CMD_DETAILS_TAG,
```

```
                3,                          /* command details length       */
                1,                          /* command number   */
                SAT_CMD_CLOSE_CHANNEL,
                0,                          /* comnd qualifier RFU */
                DEV_ID_TAG,
                2,                          /* length */
                DEV_SRC_SIM,
                0x82                        /* destination ME                                   */
ENDARRAY

/*
 * UDP
 */
BEGIN_PSTRUCT ("stk_cmd", STK_CLOSE_CHANNEL_UDP)
        SET_COMP ("l_cmd", 0x58)
        SET_COMP ("o_cmd", 0x0000)
        SET_COMP ("cmd", STK_CLOSE_CHANNEL_UDP_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_CLOSE_CHANNEL_UDP_CONTENT, 11)
                PROACTIVE_SIM_CMD_TAG,
                9,                          /* following length      */
                CMD_DETAILS_TAG,
                3,                          /* command details length       */
                1,                          /* command number   */
                SAT_CMD_CLOSE_CHANNEL,
                0,                          /* comnd qualifier RFU */
                DEV_ID_TAG,
                2,                          /* length */
                DEV_SRC_SIM,
                BIP_CH_ID_UDP
ENDARRAY

/*
 * SNDCP
 */
BEGIN_PSTRUCT ("stk_cmd", STK_CLOSE_CHANNEL_SNDCP)
        SET_COMP ("l_cmd", 0x58)
        SET_COMP ("o_cmd", 0x0000)
        SET_COMP ("cmd", STK_CLOSE_CHANNEL_SNDCP_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_CLOSE_CHANNEL_SNDCP_CONTENT, 11)
                PROACTIVE_SIM_CMD_TAG,
                9,                          /* following length      */
                CMD_DETAILS_TAG,
                3,                          /* command details length       */
                1,                          /* command number   */
                SAT_CMD_CLOSE_CHANNEL,
                0,                          /* comnd qualifier RFU */
                DEV_ID_TAG,
                2,                          /* length */
                DEV_SRC_SIM,
                BIP_CH_ID_SNDCP
ENDARRAY

/*
 * L2R
 */
BEGIN_PSTRUCT ("stk_cmd", STK_CLOSE_CHANNEL_L2R)
```

```
        SET_COMP ("l_cmd", 0x58)
        SET_COMP ("o_cmd", 0x0000)
        SET_COMP ("cmd", STK_CLOSE_CHANNEL_L2R_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_CLOSE_CHANNEL_L2R_CONTENT, 11)
                PROACTIVE_SIM_CMD_TAG,
                9,                      /* following length      */
                CMD_DETAILS_TAG,
                3,                      /* command details length        */
                1,                      /* command number   */
                SAT_CMD_CLOSE_CHANNEL,
                0,                      /* comnd qualifier RFU */
                DEV_ID_TAG,
                2,                      /* length */
                DEV_SRC_SIM,
                BIP_CH_ID_L2R
ENDARRAY

/*
```

1.4.3 Receive Data

```
*/

BEGIN_PSTRUCT ("stk_cmd", STK_RCV_DATA)
                SET_COMP ("l_cmd", 0x70)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_RCV_DATA_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_RCV_DATA_CONTENT, 14)
                PROACTIVE_SIM_CMD_TAG,
                12,                     /* following length      */
                CMD_DETAILS_TAG,
                3,                      /* command details length        */
                1,                      /* command number   */
                SAT_CMD_RECEIVE_DATA,
                0,                      /* command qualifier RFU */
                DEV_ID_TAG,
                2,                      /* device identities length */
                DEV_SRC_SIM,
                0x21,                   /* channel 1 (assigned by ME)                   */
                CH_DATA_LENGTH_TAG,
                1,                      /* length */
                0xff                    /* more than 255 bytes are available */
ENDARRAY

/*
 * UDP
*/
BEGIN_PSTRUCT ("stk_cmd", STK_RCV_DATA_UDP_235)
        SET_COMP ("l_cmd", 0x70)
        SET_COMP ("o_cmd", 0x0000)
        SET_COMP ("cmd", STK_RCV_DATA_UDP_235_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_RCV_DATA_UDP_235_CONTENT, 14)
                PROACTIVE_SIM_CMD_TAG,
                12,                     /* following length      */
                CMD_DETAILS_TAG,
                3,                      /* command details length        */
```

```
                1,                          /* command number   */
                SAT_CMD_RECEIVE_DATA,
                0,                          /* command qualifier RFU */
                DEV_ID_TAG,
                2,                          /* device identities length */
                DEV_SRC_SIM,
                BIP_CH_ID_UDP,
                CH_DATA_LENGTH_TAG,
                1,                          /* length */
                235                         /* 235 byte are requested */
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_RCV_DATA_UDP_I_235)
        SET_COMP ("l_cmd", 0x90)
        SET_COMP ("o_cmd", 0x0000)
        SET_COMP ("cmd", STK_RCV_DATA_UDP_I_235_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_RCV_DATA_UDP_I_235_CONTENT, 18)
                PROACTIVE_SIM_CMD_TAG,
                16,                         /* following length      */
                CMD_DETAILS_TAG,
                3,                          /* command details length        */
                1,                          /* command number   */
                SAT_CMD_RECEIVE_DATA,
                0,                          /* command qualifier RFU */
                DEV_ID_TAG,
                2,                          /* device identities length */
                DEV_SRC_SIM,
                BIP_CH_ID_UDP,
                ICON_ID_TAG,
                2,                          /* length */
                ICON_QLF_SLF_EXP,           /* Icon ID Tag qualifier  "self explanatory" */
                ICON_ID_123,                /* Icon Identifier: dummy 1 - 255 */
                CH_DATA_LENGTH_TAG,
                1,                          /* length */
                235                         /* 235 byte are requested */
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_RCV_DATA_UDP_IA_235)
        SET_COMP ("l_cmd", 0xC8)
        SET_COMP ("o_cmd", 0x0000)
        SET_COMP ("cmd", STK_RCV_DATA_UDP_IA_235_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_RCV_DATA_UDP_IA_235_CONTENT, 25)
                PROACTIVE_SIM_CMD_TAG,
                23,                         /* following length      */
                CMD_DETAILS_TAG,
                3,                          /* command details length        */
                1,                          /* command number   */
                SAT_CMD_RECEIVE_DATA,
                0,                          /* command qualifier RFU */
                DEV_ID_TAG,
                2,                          /* device identities length */
                DEV_SRC_SIM,
                BIP_CH_ID_UDP,
                ALPHA_ID_TAG,
                5,                          /* length */
                0x41, 0x4C, 0x50, 0x48, 0x41, /* Alpha identifier: "ALPHA" */
```

```
                ICON_ID_TAG,
                2,                      /* length */
                ICON_QLF_N_SLF_EXP,     /* Icon ID Tag qualifier “not self explanatory” */
                ICON_ID_123,            /* Icon Identifier: dummy 1 - 255 */
                CH_DATA_LENGTH_TAG,
                1,                      /* length */
                235                     /* 235 byte are requested */
ENDARRAY

/*
 * SNDCP
 */
BEGIN_PSTRUCT ("stk_cmd", STK_RCV_DATA_SNDCP_235)
        SET_COMP ("l_cmd", 0x70)
        SET_COMP ("o_cmd", 0x0000)
        SET_COMP ("cmd", STK_RCV_DATA_SNDCP_235_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_RCV_DATA_SNDCP_235_CONTENT, 14)
                PROACTIVE_SIM_CMD_TAG,
                12,                     /* following length      */
                CMD_DETAILS_TAG,
                3,                      /* command details length        */
                1,                      /* command number   */
                SAT_CMD_RECEIVE_DATA,
                0,                      /* command qualifier RFU */
                DEV_ID_TAG,
                2,                      /* device identities length */
                DEV_SRC_SIM,
                BIP_CH_ID_SNDCP,
                CH_DATA_LENGTH_TAG,
                1,                      /* length */
                235                     /* 235 byte are requested */
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_RCV_DATA_SNDCP_I_235)
        SET_COMP ("l_cmd", 0x90)
        SET_COMP ("o_cmd", 0x0000)
        SET_COMP ("cmd", STK_RCV_DATA_SNDCP_I_235_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_RCV_DATA_SNDCP_I_235_CONTENT, 18)
                PROACTIVE_SIM_CMD_TAG,
                16,                     /* following length      */
                CMD_DETAILS_TAG,
                3,                      /* command details length        */
                1,                      /* command number   */
                SAT_CMD_RECEIVE_DATA,
                0,                      /* command qualifier RFU */
                DEV_ID_TAG,
                2,                      /* device identities length */
                DEV_SRC_SIM,
                BIP_CH_ID_SNDCP,
                ICON_ID_TAG,
                2,                      /* length */
                ICON_QLF_SLF_EXP,       /* Icon ID Tag qualifier  “self explanatory” */
                ICON_ID_123,            /* Icon Identifier: dummy 1 - 255 */
                CH_DATA_LENGTH_TAG,
                1,                      /* length */
```

```
                235                             /* 235 byte are requested */
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_RCV_DATA_SNDCP_IA_235)
        SET_COMP ("l_cmd", 0xC8)
        SET_COMP ("o_cmd", 0x0000)
        SET_COMP ("cmd", STK_RCV_DATA_SNDCP_IA_235_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_RCV_DATA_SNDCP_IA_235_CONTENT, 25)
                PROACTIVE_SIM_CMD_TAG,
                23,                             /* following length      */
                CMD_DETAILS_TAG,
                3,                              /* command details length        */
                1,                              /* command number   */
                SAT_CMD_RECEIVE_DATA,
                0,                              /* command qualifier RFU */
                DEV_ID_TAG,
                2,                              /* device identities length */
                DEV_SRC_SIM,
                BIP_CH_ID_SNDCP,
                ALPHA_ID_TAG,
                5,                              /* length */
                0x41, 0x4C, 0x50, 0x48, 0x41,/* Alpha identifier: “ALPHA” */
                ICON_ID_TAG,
                2,                              /* length */
                ICON_QLF_N_SLF_EXP,     /* Icon ID Tag qualifier “not self explanatory” */
                ICON_ID_123,                    /* Icon Identifier: dummy 1 - 255 */
                CH_DATA_LENGTH_TAG,
                1,                              /* length */
                235                             /* 235 byte are requested */
ENDARRAY

/*
 * L2R
 */
BEGIN_PSTRUCT ("stk_cmd", STK_RCV_DATA_L2R_235)
        SET_COMP ("l_cmd", 0x70)
        SET_COMP ("o_cmd", 0x0000)
        SET_COMP ("cmd", STK_RCV_DATA_L2R_235_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_RCV_DATA_L2R_235_CONTENT, 14)
                PROACTIVE_SIM_CMD_TAG,
                12,                             /* following length      */
                CMD_DETAILS_TAG,
                3,                              /* command details length        */
                1,                              /* command number   */
                SAT_CMD_RECEIVE_DATA,
                0,                              /* command qualifier RFU */
                DEV_ID_TAG,
                2,                              /* device identities length */
                DEV_SRC_SIM,
                BIP_CH_ID_L2R,
                CH_DATA_LENGTH_TAG,
                1,                              /* length */
                235                             /* 235 byte are requested */
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_RCV_DATA_L2R_I_235)
```

```
        SET_COMP ("l_cmd", 0x90)
        SET_COMP ("o_cmd", 0x0000)
        SET_COMP ("cmd", STK_RCV_DATA_L2R_I_235_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_RCV_DATA_L2R_I_235_CONTENT, 18)
            PROACTIVE_SIM_CMD_TAG,
            16,                         /* following length      */
            CMD_DETAILS_TAG,
            3,                          /* command details length        */
            1,                          /* command number   */
            SAT_CMD_RECEIVE_DATA,
            0,                          /* command qualifier RFU */
            DEV_ID_TAG,
            2,                          /* device identities length */
            DEV_SRC_SIM,
            BIP_CH_ID_L2R,
            ICON_ID_TAG,                /* ICON_ID_TAG_selfexp*/
            2,                          /* length */
            ICON_QLF_SLF_EXP,           /* Icon ID Tag qualifier  "self explanatory" */
            ICON_ID_123,                /* Icon Identifier: dummy 1 - 255 */
            CH_DATA_LENGTH_TAG,
            1,                          /* length */
            235                         /* 235 byte are requested */
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_RCV_DATA_L2R_IA_235)
        SET_COMP ("l_cmd", 0xC8)
        SET_COMP ("o_cmd", 0x0000)
        SET_COMP ("cmd", STK_RCV_DATA_L2R_IA_235_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_RCV_DATA_L2R_IA_235_CONTENT, 25)
            PROACTIVE_SIM_CMD_TAG,
            23,                         /* following length      */
            CMD_DETAILS_TAG,
            3,                          /* command details length        */
            1,                          /* command number   */
            SAT_CMD_RECEIVE_DATA,
            0,                          /* command qualifier RFU */
            DEV_ID_TAG,
            2,                          /* device identities length */
            DEV_SRC_SIM,
            BIP_CH_ID_L2R,
            ALPHA_ID_TAG,               /* ALPHA_ID_TAG */
            5,                          /* length */
            0x41, 0x4C, 0x50, 0x48, 0x41, /* Alpha identifier: "ALPHA" */
            ICON_ID_TAG,                /* ICON_ID_TAG_non_selfexp*/
            2,                          /* length */
            ICON_QLF_N_SLF_EXP,         /* Icon ID Tag qualifier "not self explanatory" */
            ICON_ID_123,                /* Icon Identifier: dummy 1 - 255 */
            CH_DATA_LENGTH_TAG,
            1,                          /* length */
            235                         /* 235 byte are requested */
ENDARRAY

/*
```

1.4.4 Send Data

```
*/
```

```
BEGIN_PSTRUCT ("stk_cmd", STK_SEND_DATA_127)
                SET_COMP ("l_cmd", 0x0468)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_SEND_DATA_127_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_SEND_DATA_127_CONTENT, 141)
                PROACTIVE_SIM_CMD_TAG,
                0x81, 138,              /* following length: >127          */
                CMD_DETAILS_TAG,
                3,                      /* command details length          */
                1,                      /* command number   */
                SAT_CMD_SEND_DATA,
                QLF_SNDDAT_TX,
                DEV_ID_TAG,
                2,                      /* device details length                                   */
                DEV_SRC_SIM,
                0x21,                   /* channel 1 (assigned by ME)                              */
                CH_DATA_TAG,
                127,                    /* length: 127    */
                /* channel data: 127 bytes     */
                SND_DATA_127
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_SEND_DATA_IM_127)
                SET_COMP ("l_cmd", 0x0468)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_SEND_DATA_IM_127_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_SEND_DATA_IM_127_CONTENT, 141)
                PROACTIVE_SIM_CMD_TAG,
                0x81, 138,              /* following length: > 127         */
                CMD_DETAILS_TAG,
                3,                      /* command details length          */
                1,                      /* command number   */
                SAT_CMD_SEND_DATA,
                QLF_SNDDAT_IM,
                DEV_ID_TAG,
                2,                      /* device details length                                   */
                DEV_SRC_SIM,
                0x21,                   /* channel 1 (assigned by ME)                              */
                CH_DATA_TAG,
                127,                    /* length: 127    */
                /* channel data: 127 bytes     */
                SND_DATA_127
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_SEND_DATA_241)
                SET_COMP ("l_cmd", 0x0800)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_SEND_DATA_241_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_SEND_DATA_241_CONTENT, 256)
                PROACTIVE_SIM_CMD_TAG,
                0x81, 253,              /* following length: > 127         */
                CMD_DETAILS_TAG,
                3,                      /* command details length          */
```

```
                1,                      /* command number   */
                SAT_CMD_SEND_DATA,
                QLF_SNDDAT_TX,
                DEV_ID_TAG,
                2,                      /* device details length                    */
                DEV_SRC_SIM,
                0x21,                   /* channel 1 (assigned by ME)               */
                CH_DATA_TAG,
                0x81, 241,              /* length: > 127 */
                /* channel data: 241 bytes    */
                SND_DATA_241
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_SEND_DATA_IM_241)
                SET_COMP ("l_cmd", 0x0800)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_SEND_DATA_IM_241_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_SEND_DATA_IM_241_CONTENT, 256)
                PROACTIVE_SIM_CMD_TAG,
                0x81, 253,              /* following length: >127          */
                CMD_DETAILS_TAG,
                3,                      /* command details length          */
                1,                      /* command number   */
                SAT_CMD_SEND_DATA,
                QLF_SNDDAT_IM,
                DEV_ID_TAG,
                2,                      /* device details length                    */
                DEV_SRC_SIM,
                0x21,                   /* channel 1 (assigned by ME)               */
                CH_DATA_TAG,
                0x81, 241,              /* length: >127   */
                /* channel data: 241 bytes    */
                SND_DATA_241
ENDARRAY

/*
 * UDP
 */
BEGIN_PSTRUCT ("stk_cmd", STK_SEND_DATA_ST_UDP_127)
                SET_COMP ("l_cmd", 0x0468)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_SEND_DATA_ST_UDP_127_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_SEND_DATA_ST_UDP_127_CONTENT, 141)
                PROACTIVE_SIM_CMD_TAG,
                0x81, 138,              /* following length >127 */
                CMD_DETAILS_TAG,
                3,                      /* command details length          */
                1,                      /* command number   */
                SAT_CMD_SEND_DATA,
                QLF_SNDDAT_TX,
                DEV_ID_TAG,
                2,                      /* device details length                    */
                DEV_SRC_SIM,
                BIP_CH_ID_UDP,
                CH_DATA_TAG,
```

```
                127,                    /* length: 127    */
                /* channel data: 127 bytes    */
                SND_DATA_127
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_SEND_DATA_IM_UDP_127)
                SET_COMP ("l_cmd", 0x0468)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_SEND_DATA_IM_UDP_127_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_SEND_DATA_IM_UDP_127_CONTENT, 141)
                PROACTIVE_SIM_CMD_TAG,
                0x81, 138,              /* following length: > 127        */
                CMD_DETAILS_TAG,
                3,                      /* command details length         */
                1,                      /* command number   */
                SAT_CMD_SEND_DATA,
                QLF_SNDDAT_IM,
                DEV_ID_TAG,
                2,                      /* device details length          */
                DEV_SRC_SIM,
                BIP_CH_ID_UDP,
                CH_DATA_TAG,
                127,                    /* length: 127    */
                /* channel data: 127 bytes    */
                SND_DATA_127
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_SEND_DATA_ST_UDP_241)
                SET_COMP ("l_cmd", 0x0800)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_SEND_DATA_ST_UDP_241_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_SEND_DATA_ST_UDP_241_CONTENT, 256)
                PROACTIVE_SIM_CMD_TAG,
                0x81, 253,              /* following length >127 */
                CMD_DETAILS_TAG,
                3,                      /* command details length         */
                1,                      /* command number   */
                SAT_CMD_SEND_DATA,
                QLF_SNDDAT_TX,
                DEV_ID_TAG,
                2,                      /* device identities length */
                DEV_SRC_SIM,
                BIP_CH_ID_UDP,
                CH_DATA_TAG,
                0x81, 241,              /* length >127 */
                /* channel data: 241 bytes    */
                SND_DATA_241
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_SEND_DATA_ST_UDP_I_228)
                SET_COMP ("l_cmd", 0x07b8)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_SEND_DATA_ST_UDP_I_228_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_SEND_DATA_ST_UDP_I_228_CONTENT, 247)
                PROACTIVE_SIM_CMD_TAG,
```

```
                0x81, 244,                  /* following length >127 */
                CMD_DETAILS_TAG,
                3,                          /* command details length       */
                1,                          /* command number   */
                SAT_CMD_SEND_DATA,
                QLF_SNDDAT_TX,
                DEV_ID_TAG,
                2,                          /* device identities length */
                DEV_SRC_SIM,
                BIP_CH_ID_UDP,
                ICON_ID_TAG,
                2,                          /* length */
                ICON_QLF_SLF_EXP,           /* Icon ID Tag qualifier  "self explanatory" */
                ICON_ID_123,                /* Icon Identifier: dummy 1 - 255 */
                CH_DATA_TAG,
                0x81, 228,                  /* length >127 */
                /* channel data: 228 bytes  */
                SND_DATA_228
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_SEND_DATA_ST_UDP_IA_228)
                SET_COMP ("l_cmd", 0x07f0)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_SEND_DATA_ST_UDP_IA_228_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_SEND_DATA_ST_UDP_IA_228_CONTENT, 254)
                PROACTIVE_SIM_CMD_TAG,
                0x81, 251,                  /* following length >127 */
                CMD_DETAILS_TAG,
                3,                          /* command details length       */
                1,                          /* command number   */
                SAT_CMD_SEND_DATA,
                QLF_SNDDAT_TX,
                DEV_ID_TAG,
                2,                          /* device identities length */
                DEV_SRC_SIM,
                BIP_CH_ID_UDP,
                ALPHA_ID_TAG,
                5,                          /* length */
                0x41, 0x4C, 0x50, 0x48, 0x41, /* Alpha identifier: "ALPHA" */
                ICON_ID_TAG,
                2,                          /* length */
                ICON_QLF_N_SLF_EXP,         /* Icon ID Tag qualifier "not self explanatory" */
                ICON_ID_123,                /* Icon Identifier: dummy 1 - 255 */
                CH_DATA_TAG,
                0x81, 228,                  /* length >127 */
                /* channel data: 228 bytes  */
                SND_DATA_228
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_SEND_DATA_IM_UDP_241)
                SET_COMP ("l_cmd", 0x0800)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_SEND_DATA_IM_UDP_241_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_SEND_DATA_IM_UDP_241_CONTENT, 256)
                PROACTIVE_SIM_CMD_TAG,
```

```
                0x81, 253,              /* following length >127 */
                CMD_DETAILS_TAG,
                3,                      /* command details length       */
                1,                      /* command number   */
                SAT_CMD_SEND_DATA,
                QLF_SNDDAT_IM,
                DEV_ID_TAG,
                2,                      /* device identities length */
                DEV_SRC_SIM,
                BIP_CH_ID_UDP,
                CH_DATA_TAG,
                0x81, 241,              /* length >127 */
                /* channel data: 241 bytes     */
                SND_DATA_241
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_SEND_DATA_IM_UDP_I_228)
                SET_COMP ("l_cmd", 0x07b8)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_SEND_DATA_IM_UDP_I_228_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_SEND_DATA_IM_UDP_I_228_CONTENT, 247)
                PROACTIVE_SIM_CMD_TAG,
                0x81, 244,              /* following length >127 */
                CMD_DETAILS_TAG,
                3,                      /* command details length       */
                1,                      /* command number   */
                SAT_CMD_SEND_DATA,
                QLF_SNDDAT_IM,
                DEV_ID_TAG,
                2,                      /* device identities length */
                DEV_SRC_SIM,
                BIP_CH_ID_UDP,
                ICON_ID_TAG,
                2,                      /* length */
                ICON_QLF_SLF_EXP,       /* Icon ID Tag qualifier  "self explanatory" */
                ICON_ID_123,            /* Icon Identifier: dummy 1 - 255 */
                CH_DATA_TAG,
                0x81, 228,              /* length >127 */
                /* channel data: 228 bytes     */
                SND_DATA_228
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_SEND_DATA_IM_UDP_IA_228)
                SET_COMP ("l_cmd", 0x07F0)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_SEND_DATA_IM_UDP_IA_228_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_SEND_DATA_IM_UDP_IA_228_CONTENT, 254)
                PROACTIVE_SIM_CMD_TAG,
                0x81, 251,              /* following length >127 */
                CMD_DETAILS_TAG,
                3,                      /* command details length       */
                1,                      /* command number   */
                SAT_CMD_SEND_DATA,
                QLF_SNDDAT_IM,
                DEV_ID_TAG,
                2,                      /* device identities length */
```

```
                DEV_SRC_SIM,
                BIP_CH_ID_UDP,
                ALPHA_ID_TAG,
                5,                          /* length */
                0x41, 0x4C, 0x50, 0x48, 0x41, /* Alpha identifier: “ALPHA” */
                ICON_ID_TAG,
                2,                          /* length */
                ICON_QLF_N_SLF_EXP,         /* Icon ID Tag qualifier “not self explanatory” */
                ICON_ID_123,                /* Icon Identifier: dummy 1 - 255 */
                CH_DATA_TAG,
                0x81, 228,                  /* length >127 */
                /* channel data: 228 bytes  */
                SND_DATA_228
ENDARRAY

/*
 * SNDCP
 */
BEGIN_PSTRUCT ("stk_cmd", STK_SEND_DATA_ST_SNDCP_127)
                SET_COMP ("l_cmd", 0x0468)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_SEND_DATA_ST_SNDCP_127_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_SEND_DATA_ST_SNDCP_127_CONTENT, 141)
                PROACTIVE_SIM_CMD_TAG,
                0x81, 138,                  /* following length >127 */
                CMD_DETAILS_TAG,
                3,                          /* command details length       */
                1,                          /* command number   */
                SAT_CMD_SEND_DATA,
                QLF_SNDDAT_TX,
                DEV_ID_TAG,
                2,                          /* device details length                                    */
                DEV_SRC_SIM,
                BIP_CH_ID_SNDCP,
                CH_DATA_TAG,
                127,                        /* length: 127    */
                /* channel data: 127 bytes  */
                SND_DATA_127
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_SEND_DATA_IM_SNDCP_127)
                SET_COMP ("l_cmd", 0x0468)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_SEND_DATA_IM_SNDCP_127_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_SEND_DATA_IM_SNDCP_127_CONTENT, 141)
                PROACTIVE_SIM_CMD_TAG,
                0x81, 138,                  /* following length: > 127      */
                CMD_DETAILS_TAG,
                3,                          /* command details length       */
                1,                          /* command number   */
                SAT_CMD_SEND_DATA,
                QLF_SNDDAT_IM,
                DEV_ID_TAG,
                2,                          /* device details length        */
                DEV_SRC_SIM,
                BIP_CH_ID_SNDCP,
```

```
                CH_DATA_TAG,
                127,                    /* length: 127    */
                /* channel data: 127 bytes    */
                SND_DATA_127
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_SEND_DATA_ST_SNDCP_241)
                SET_COMP ("l_cmd", 0x0800)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_SEND_DATA_ST_SNDCP_241_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_SEND_DATA_ST_SNDCP_241_CONTENT, 256)
                PROACTIVE_SIM_CMD_TAG,
                0x81, 253,              /* following length >127 */
                CMD_DETAILS_TAG,
                3,                      /* command details length         */
                1,                      /* command number   */
                SAT_CMD_SEND_DATA,
                QLF_SNDDAT_TX,
                DEV_ID_TAG,
                2,                      /* device identities length */
                DEV_SRC_SIM,
                BIP_CH_ID_SNDCP,
                CH_DATA_TAG,
                0x81, 241,              /* length >127 */
                /* channel data: 241 bytes    */
                SND_DATA_241
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_SEND_DATA_ST_SNDCP_I_228)
                SET_COMP ("l_cmd", 0x07b8)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_SEND_DATA_ST_SNDCP_I_228_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_SEND_DATA_ST_SNDCP_I_228_CONTENT, 247)
                PROACTIVE_SIM_CMD_TAG,
                0x81, 244,              /* following length >127 */
                CMD_DETAILS_TAG,
                3,                      /* command details length         */
                1,                      /* command number   */
                SAT_CMD_SEND_DATA,
                QLF_SNDDAT_TX,
                DEV_ID_TAG,
                2,                      /* device identities length */
                DEV_SRC_SIM,
                BIP_CH_ID_SNDCP,
                ICON_ID_TAG,
                2,                      /* length */
                ICON_QLF_SLF_EXP,       /* Icon ID Tag qualifier  “self explanatory” */
                ICON_ID_123,            /* Icon Identifier: dummy 1 - 255 */
                CH_DATA_TAG,
                0x81, 228,              /* length >127 */
                /* channel data: 228 bytes    */
                SND_DATA_228
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_SEND_DATA_ST_SNDCP_IA_228)
                SET_COMP ("l_cmd", 0x07F0)
```

```
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_SEND_DATA_ST_SNDCP_IA_228_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_SEND_DATA_ST_SNDCP_IA_228_CONTENT, 254)
                PROACTIVE_SIM_CMD_TAG,
                0x81, 251,                  /* following length >127 */
                CMD_DETAILS_TAG,
                3,                          /* command details length        */
                1,                          /* command number   */
                SAT_CMD_SEND_DATA,
                QLF_SNDDAT_TX,
                DEV_ID_TAG,
                2,                          /* device identities length */
                DEV_SRC_SIM,
                BIP_CH_ID_SNDCP,
                ALPHA_ID_TAG,
                5,                          /* length */
                0x41, 0x4C, 0x50, 0x48, 0x41, /* Alpha identifier: “ALPHA” */
                ICON_ID_TAG,
                2,                          /* length */
                ICON_QLF_N_SLF_EXP,         /* Icon ID Tag qualifier “not self explanatory” */
                ICON_ID_123,                /* Icon Identifier: dummy 1 - 255 */
                CH_DATA_TAG,
                0x81, 228,                  /* length >127 */
                /* channel data: 228 bytes     */
                SND_DATA_228
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_SEND_DATA_IM_SNDCP_241)
                SET_COMP ("l_cmd", 0x0800)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_SEND_DATA_IM_SNDCP_241_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_SEND_DATA_IM_SNDCP_241_CONTENT, 256)
                PROACTIVE_SIM_CMD_TAG,
                0x81, 253,                  /* following length >127 */
                CMD_DETAILS_TAG,
                3,                          /* command details length        */
                1,                          /* command number   */
                SAT_CMD_SEND_DATA,
                QLF_SNDDAT_IM,
                DEV_ID_TAG,
                2,                          /* device identities length */
                DEV_SRC_SIM,
                BIP_CH_ID_SNDCP,
                CH_DATA_TAG,
                0x81, 241,                  /* length >127 */
                /* channel data: 241 bytes     */
                SND_DATA_241
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_SEND_DATA_IM_SNDCP_I_228)
                SET_COMP ("l_cmd", 0x07b8)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_SEND_DATA_IM_SNDCP_I_228_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_SEND_DATA_IM_SNDCP_I_228_CONTENT, 247)
                PROACTIVE_SIM_CMD_TAG,
```

```
                0x81, 244,                  /* following length >127 */
                CMD_DETAILS_TAG,
                3,                          /* command details length       */
                1,                          /* command number   */
                SAT_CMD_SEND_DATA,
                QLF_SNDDAT_IM,
                DEV_ID_TAG,
                2,                          /* device identities length */
                DEV_SRC_SIM,
                BIP_CH_ID_SNDCP,
                ICON_ID_TAG,
                2,                          /* length */
                ICON_QLF_SLF_EXP,           /* Icon ID Tag qualifier  "self explanatory" */
                ICON_ID_123,                /* Icon Identifier: dummy 1 - 255 */
                CH_DATA_TAG,
                0x81, 228,                  /* length >127 */
                /* channel data: 228 bytes  */
                SND_DATA_228
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_SEND_DATA_IM_SNDCP_IA_228)
                SET_COMP ("l_cmd", 0x07F0)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_SEND_DATA_IM_SNDCP_IA_228_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_SEND_DATA_IM_SNDCP_IA_228_CONTENT, 254)
                PROACTIVE_SIM_CMD_TAG,
                0x81, 251,                  /* following length >127 */
                CMD_DETAILS_TAG,
                3,                          /* command details length       */
                1,                          /* command number   */
                SAT_CMD_SEND_DATA,
                QLF_SNDDAT_IM,
                DEV_ID_TAG,
                2,                          /* device identities length */
                DEV_SRC_SIM,
                BIP_CH_ID_SNDCP,
                ALPHA_ID_TAG,
                5,                          /* length */
                0x41, 0x4C, 0x50, 0x48, 0x41,/* Alpha identifier: "ALPHA" */
                ICON_ID_TAG,
                2,                          /* length */
                ICON_QLF_N_SLF_EXP,         /* Icon ID Tag qualifier "not self explanatory" */
                ICON_ID_123,                /* Icon Identifier: dummy 1 - 255 */
                CH_DATA_TAG,
                0x81, 228,                  /* length >127 */
                /* channel data: 228 bytes  */
                SND_DATA_228
ENDARRAY

/*
 * L2R
 */
BEGIN_PSTRUCT ("stk_cmd", STK_SEND_DATA_ST_L2R_127)
                SET_COMP ("l_cmd", 0x0468)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_SEND_DATA_ST_L2R_127_CONTENT)
ENDSTRUCT
```

```
BEGINARRAY_PART (STK_SEND_DATA_ST_L2R_127_CONTENT, 141)
                PROACTIVE_SIM_CMD_TAG,
                0x81, 138,              /* following length >127 */
                CMD_DETAILS_TAG,
                3,                      /* command details length       */
                1,                      /* command number   */
                SAT_CMD_SEND_DATA,
                QLF_SNDDAT_TX,
                DEV_ID_TAG,
                2,                      /* device details length                                */
                DEV_SRC_SIM,
                BIP_CH_ID_L2R,
                CH_DATA_TAG,
                127,                    /* length: 127    */
                /* channel data: 127 bytes    */
                SND_DATA_127
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_SEND_DATA_IM_L2R_127)
                SET_COMP ("l_cmd", 0x0468)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_SEND_DATA_IM_L2R_127_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_SEND_DATA_IM_L2R_127_CONTENT, 141)
                PROACTIVE_SIM_CMD_TAG,
                0x81, 138,              /* following length: > 127        */
                CMD_DETAILS_TAG,
                3,                      /* command details length       */
                1,                      /* command number   */
                SAT_CMD_SEND_DATA,
                QLF_SNDDAT_IM,
                DEV_ID_TAG,
                2,                      /* device details length        */
                DEV_SRC_SIM,
                BIP_CH_ID_L2R,
                CH_DATA_TAG,
                127,                    /* length: 127    */
                /* channel data: 127 bytes    */
                SND_DATA_127
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_SEND_DATA_ST_L2R_241)
                SET_COMP ("l_cmd", 0x0800)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_SEND_DATA_ST_L2R_241_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_SEND_DATA_ST_L2R_241_CONTENT, 256)
                PROACTIVE_SIM_CMD_TAG,
                0x81, 253,              /* following length >127 */
                CMD_DETAILS_TAG,
                3,                      /* command details length       */
                1,                      /* command number   */
                SAT_CMD_SEND_DATA,
                QLF_SNDDAT_TX,
                DEV_ID_TAG,
                2,                      /* device identities length */
                DEV_SRC_SIM,
                BIP_CH_ID_L2R,
```

```
                CH_DATA_TAG,
                0x81, 241,                  /* length >127 */
                /* channel data: 241 bytes  */
                SND_DATA_241
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_SEND_DATA_ST_L2R_I_228)
                SET_COMP ("l_cmd", 0x07b8)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_SEND_DATA_ST_L2R_I_228_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_SEND_DATA_ST_L2R_I_228_CONTENT, 247)
                PROACTIVE_SIM_CMD_TAG,
                0x81, 244,                  /* following length >127 */
                CMD_DETAILS_TAG,
                3,                          /* command details length       */
                1,                          /* command number   */
                SAT_CMD_SEND_DATA,
                QLF_SNDDAT_TX,
                DEV_ID_TAG,
                2,                          /* device identities length */
                DEV_SRC_SIM,
                BIP_CH_ID_L2R,
                ICON_ID_TAG,
                2,                          /* length */
                ICON_QLF_SLF_EXP,           /* Icon ID Tag qualifier  "self explanatory" */
                ICON_ID_123,                /* Icon Identifier: dummy 1 - 255 */
                CH_DATA_TAG,
                0x81, 228,                  /* length >127 */
                /* channel data: 228 bytes  */
                SND_DATA_228
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_SEND_DATA_ST_L2R_IA_228)
                SET_COMP ("l_cmd", 0x07F0)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_SEND_DATA_ST_L2R_IA_228_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_SEND_DATA_ST_L2R_IA_228_CONTENT, 254)
                PROACTIVE_SIM_CMD_TAG,
                0x81, 251,                  /* following length >127 */
                CMD_DETAILS_TAG,
                3,                          /* command details length       */
                1,                          /* command number   */
                SAT_CMD_SEND_DATA,
                QLF_SNDDAT_TX,
                DEV_ID_TAG,
                2,                          /* device identities length */
                DEV_SRC_SIM,
                BIP_CH_ID_L2R,
                ALPHA_ID_TAG,
                5,                          /* length */
                0x41, 0x4C, 0x50, 0x48, 0x41, /* Alpha identifier: "ALPHA" */
                ICON_ID_TAG,
                2,                          /* length */
                ICON_QLF_N_SLF_EXP,         /* Icon ID Tag qualifier "not self explanatory" */
                ICON_ID_123,                /* Icon Identifier: dummy 1 - 255 */
                CH_DATA_TAG,
```

```
                0x81, 228,                  /* length >127 */
                /* channel data: 228 bytes  */
                SND_DATA_228
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_SEND_DATA_IM_L2R_241)
                SET_COMP ("l_cmd", 0x0800)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_SEND_DATA_IM_L2R_241_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_SEND_DATA_IM_L2R_241_CONTENT, 256)
                PROACTIVE_SIM_CMD_TAG,
                0x81, 253,                  /* following length >127 */
                CMD_DETAILS_TAG,
                3,                          /* command details length       */
                1,                          /* command number   */
                SAT_CMD_SEND_DATA,
                QLF_SNDDAT_IM,
                DEV_ID_TAG,
                2,                          /* device identities length */
                DEV_SRC_SIM,
                BIP_CH_ID_L2R,
                CH_DATA_TAG,
                0x81, 241,                  /* length >127 */
                /* channel data: 241 bytes  */
                SND_DATA_241
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_SEND_DATA_IM_L2R_I_228)
                SET_COMP ("l_cmd", 0x07b8)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_SEND_DATA_IM_L2R_I_228_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_SEND_DATA_IM_L2R_I_228_CONTENT, 247)
                PROACTIVE_SIM_CMD_TAG,
                0x81, 244,                  /* following length >127 */
                CMD_DETAILS_TAG,
                3,                          /* command details length       */
                1,                          /* command number   */
                SAT_CMD_SEND_DATA,
                QLF_SNDDAT_IM,
                DEV_ID_TAG,
                2,                          /* device identities length */
                DEV_SRC_SIM,
                BIP_CH_ID_L2R,
                ICON_ID_TAG,
                2,                          /* length */
                ICON_QLF_SLF_EXP,           /* Icon ID Tag qualifier  "self explanatory" */
                ICON_ID_123,                /* Icon Identifier: dummy 1 - 255 */
                CH_DATA_TAG,
                0x81, 228,                  /* length >127 */
                /* channel data: 228 bytes  */
                SND_DATA_228
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_SEND_DATA_IM_L2R_IA_228)
                SET_COMP ("l_cmd", 0x07F0)
                SET_COMP ("o_cmd", 0x0000)
```

```
                SET_COMP ("cmd", STK_SEND_DATA_IM_L2R_IA_228_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_SEND_DATA_IM_L2R_IA_228_CONTENT, 254)
                PROACTIVE_SIM_CMD_TAG,
                0x81, 251,                  /* following length >127 */
                CMD_DETAILS_TAG,
                3,                          /* command details length        */
                1,                          /* command number   */
                SAT_CMD_SEND_DATA,
                QLF_SNDDAT_IM,
                DEV_ID_TAG,
                2,                          /* device identities length */
                DEV_SRC_SIM,
                BIP_CH_ID_L2R,
                ALPHA_ID_TAG,
                5,                          /* length */
                0x41, 0x4C, 0x50, 0x48, 0x41, /* Alpha identifier: “ALPHA” */
                ICON_ID_TAG,
                2,                          /* length */
                ICON_QLF_N_SLF_EXP,         /* Icon ID Tag qualifier “not self explanatory” */
                ICON_ID_123,                /* Icon Identifier: dummy 1 - 255 */
                CH_DATA_TAG,
                0x81, 228,                  /* length >127 */
                /* channel data: 228 bytes     */
                SND_DATA_228
ENDARRAY

/*
```

1.4.5 Get Channel Status

```
*/

BEGIN_PSTRUCT ("stk_cmd", STK_GET_CHANNEL_STATUS)
                SET_COMP ("l_cmd", 0x0058)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_GET_CHANNEL_STATUS_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_GET_CHANNEL_STATUS_CONTENT, 11)
                0xD0,                       /* proactive SIM command tag                */
                9,                          /* following length                         */
                0x81,                       /* command details tag                      */
                3,                          /* command details length                   */
                1,                          /* command number                           */
                0x44,                       /* command GET CHANNEL STATUS               */
                0,                          /* not used       */
                0x82,                       /* device details tag                       */
                2,                          /* device details length                    */
                0x81,                       /* source SIM    */
                0x82                        /* destination ME                           */
ENDARRAY

/*
```

1.4.6 Launch Browser

```
*/

BEGIN_PSTRUCT ("stk_cmd", STK_LAUNCH_BROWSER_INL_00)
                SET_COMP ("l_cmd", 0x0068)
```

```
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_LAUNCH_BROWSER_INL_00_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_LAUNCH_BROWSER_INL_00_CONTENT, 13)
                0xD0,                   /* proactive SIM command tag                    */
                11,                     /* following length                             */
                0x81,                   /* command details tag                          */
                3,                      /* command details length                       */
                1,                      /* command number                               */
                0x15,                   /* command LAUNCH BROWSER                       */
                0,                      /* cmd qualifier: launch if not already launched */
                0x82,                   /* device details tag                           */
                2,                      /* device details length                        */
                0x81,                   /* source SIM    */
                0x82,                   /* destination ME                               */
                0xB1,                   /* URL tag       */
                00                      /* length 00:  ME should use default URL        */
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_LAUNCH_BROWSER_INL)
                SET_COMP ("l_cmd", 0x00D0)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_LAUNCH_BROWSER_INL_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_LAUNCH_BROWSER_INL_CONTENT, 26)
                0xD0,                   /* proactive SIM command tag                    */
                24,                     /* following length                             */
                0x81,                   /* command details tag                          */
                3,                      /* command details length                       */
                1,                      /* command number                               */
                0x15,                   /* command LAUNCH BROWSER                       */
                0,                      /* cmd qualifier: launch if not already launched */
                0x82,                   /* device details tag                           */
                2,                      /* device details length                        */
                0x81,                   /* source SIM    */
                0x82,                   /* destination ME                               */
                0xB1,                   /* URL tag       */
                13,                     /* length        */
                /* URL itself: www.condat.de     */
                0x77,0x77,0x77,0x2E,0x63,0x6F,0x6E,0x64,0x61,0x74,0x2E,0x64,0x65
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_LAUNCH_BROWSER_UEB)
                SET_COMP ("l_cmd", 0x00D0)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_LAUNCH_BROWSER_UEB_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_LAUNCH_BROWSER_UEB_CONTENT, 26)
                0xD0,                   /* proactive SIM command tag                    */
                24,                     /* following length                             */
                0x81,                   /* command details tag                          */
                3,                      /* command details length                       */
                1,                      /* command number                               */
                0x15,                   /* command LAUNCH BROWSER                       */
                2,                      /* cmd qualifier: use existing browser */
                0x82,                   /* device details tag                           */
                2,                      /* device details length                        */
                0x81,                   /* source SIM    */
```

```
                0x82,                   /* destination ME                                   */
                0xB1,                   /* URL tag      */
                13,                     /* length       */
                /* URL itself: www.condat.de    */
                0x77,0x77,0x77,0x2E,0x63,0x6F,0x6E,0x64,0x61,0x74,0x2E,0x64,0x65
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_LAUNCH_BROWSER_CEB)
                SET_COMP ("l_cmd", 0x00D0)
                SET_COMP ("o_cmd", 0x0000)
                SET_COMP ("cmd", STK_LAUNCH_BROWSER_CEB_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_LAUNCH_BROWSER_CEB_CONTENT, 26)
                0xD0,                   /* proactive SIM command tag                        */
                24,                     /* following length                                 */
                0x81,                   /* command details tag                              */
                3,                      /* command details length                           */
                1,                      /* command number                                   */
                0x15,                   /* command LAUNCH BROWSER                           */
                3,                      /* cmd qualifier: close existing browser */
                0x82,                   /* device details tag                               */
                2,                      /* device details length                            */
                0x81,                   /* source SIM   */
                0x82,                   /* destination ME                                   */
                0xB1,                   /* URL tag      */
                13,                     /* length       */
                /* URL itself: www.condat.de    */
                0x77,0x77,0x77,0x2E,0x63,0x6F,0x6E,0x64,0x61,0x74,0x2E,0x64,0x65
ENDARRAY

/*
```

1.4.7 Terminal Response

```
*/
/*
 * Open Channel UDP
 */
BEGIN_PSTRUCT ("stk_cmd", STK_TERM_RESP_IM_UDP)
        SET_COMP ("l_cmd", 0x00D0)
        SET_COMP ("o_cmd", 0x0000)
        SET_COMP ("cmd", STK_TERM_RESP_IM_UDP_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_TERM_RESP_IM_UDP_CONTENT, 26)
                CMD_DETAILS_TAG,
                3,                      /* command details length */
                1,                      /* command number */
                SAT_CMD_OPEN_CHANNEL,
                (QLF_OPCH_IMMDT_LINK_EST | QLF_OPCH_NO_AUTO_RECONNECT),
                DEV_ID_TAG,
                2,                      /* length */
                DEV_SRC_ME,
                DEV_DST_SIM,
                RESULT_TAG,
                1,                      /* length */
                RSLT_PERF_SUCCESS,
                CH_STATUS_TAG,
                2,                      /* length */
                BIP_CH_ID_UDP,
```

```
                NO_FURTH_INFO,
                BEAR_DESC_TAG,
                4,                      /* length */
                BT_CSD,
                12,                     /* speed */
                2,                      /* name: PAD Access (async) (UDI) */
                0,                      /* connection element: transparent */
                BUF_SIZE_TAG,
                2,                      /* length */
                0x05, 0xdc              /* buffer size: 1500 bytes */
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_TERM_RESP_OD_UDP)
        SET_COMP ("l_cmd", 0x00D0)
        SET_COMP ("o_cmd", 0x0000)
        SET_COMP ("cmd", STK_TERM_RESP_OD_UDP_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_TERM_RESP_OD_UDP_CONTENT, 26)
                CMD_DETAILS_TAG,
                3,                      /* command details length */
                1,                      /* command number */
                SAT_CMD_OPEN_CHANNEL,
                (QLF_OPCH_ON_DEMD_LINK_EST | QLF_OPCH_NO_AUTO_RECONNECT),
                DEV_ID_TAG,
                2,                      /* length */
                DEV_SRC_ME,
                DEV_DST_SIM,
                RESULT_TAG,
                1,                      /* length */
                RSLT_PERF_SUCCESS,
                CH_STATUS_TAG,
                2,                      /* length */
                BIP_CH_ID_UDP,
                NO_FURTH_INFO,
                BEAR_DESC_TAG,
                4,                      /* length */
                BT_CSD,
                12,                     /* speed */
                2,                      /* name: PAD Access (async) (UDI) */
                0,                      /* connection element: transparent */
                BUF_SIZE_TAG,
                2,                      /* length */
                0x05, 0xdc              /* buffer size: 1500 bytes */
ENDARRAY

/*
 * Open Channel SNDCP
 */
BEGIN_PSTRUCT ("stk_cmd", STK_TERM_RESP_IM_SNDCP)
        SET_COMP ("l_cmd", 0x00e8)
        SET_COMP ("o_cmd", 0x0000)
        SET_COMP ("cmd", STK_TERM_RESP_IM_SNDCP_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_TERM_RESP_IM_SNDCP_CONTENT, 29)
                CMD_DETAILS_TAG,
                3,                      /* command details length */
                1,                      /* command number */
                SAT_CMD_OPEN_CHANNEL,
```

```
                (QLF_OPCH_IMMDT_LINK_EST | QLF_OPCH_NO_AUTO_RECONNECT),
                DEV_ID_TAG,
                2,                      /* length */
                DEV_SRC_ME,
                DEV_DST_SIM,
                RESULT_TAG,
                1,                      /* length */
                RSLT_PERF_SUCCESS,
                CH_STATUS_TAG,
                2,                      /* length */
                BIP_CH_ID_SNDCP,
                NO_FURTH_INFO,
                BEAR_DESC_TAG,
                7,                      /* length */
                BT_GPRS,
                2,                      /* precedence class: Normal priority */
                4,                      /* delay class: best effort */
                5,                      /* reliability class: unprotected data */
                1,                      /* peak throughput: 1k/sec */
                9,                      /* mean throughput: 50k/h */
                0x02,                   /* packet data protocol: IP */
                BUF_SIZE_TAG,
                2,                      /* length */
                0x05, 0xdc              /* buffer size: 1500 bytes */
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_TERM_RESP_OD_SNDCP)
        SET_COMP ("l_cmd", 0x00e8)
        SET_COMP ("o_cmd", 0x0000)
        SET_COMP ("cmd", STK_TERM_RESP_OD_SNDCP_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_TERM_RESP_OD_SNDCP_CONTENT, 29)
                CMD_DETAILS_TAG,
                3,                      /* command details length */
                1,                      /* command number */
                SAT_CMD_OPEN_CHANNEL,
                (QLF_OPCH_ON_DEMD_LINK_EST | QLF_OPCH_NO_AUTO_RECONNECT),
                DEV_ID_TAG,
                2,                      /* length */
                DEV_SRC_ME,
                DEV_DST_SIM,
                RESULT_TAG,
                1,                      /* length */
                RSLT_PERF_SUCCESS,
                CH_STATUS_TAG,
                2,                      /* length */
                BIP_CH_ID_SNDCP,
                NO_FURTH_INFO,
                BEAR_DESC_TAG,
                7,                      /* length */
                BT_GPRS,
                2,                      /* precedence class: Normal priority */
                4,                      /* delay class: best effort */
                5,                      /* reliability class: unprotected data */
                1,                      /* peak throughput: 1k/sec */
                9,                      /* mean throughput: 50k/h */
                0x02,                   /* packet data protocol: IP */
                BUF_SIZE_TAG,
```

```
                2,                          /* length */
                0x05, 0xdc                  /* buffer size: 1500 bytes */
ENDARRAY

/*
 * Open Channel L2R
 */
BEGIN_PSTRUCT ("stk_cmd", STK_TERM_RESP_IM_L2R)
        SET_COMP ("l_cmd", 0x00D0)
        SET_COMP ("o_cmd", 0x0000)
        SET_COMP ("cmd", STK_TERM_RESP_IM_L2R_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_TERM_RESP_IM_L2R_CONTENT, 26)
                CMD_DETAILS_TAG,
                3,                          /* command details length */
                1,                          /* command number */
                SAT_CMD_OPEN_CHANNEL,
                (QLF_OPCH_IMMDT_LINK_EST | QLF_OPCH_NO_AUTO_RECONNECT),
                DEV_ID_TAG,
                2,                          /* length */
                DEV_SRC_ME,
                DEV_DST_SIM,
                RESULT_TAG,
                1,                          /* length */
                RSLT_PERF_SUCCESS,
                CH_STATUS_TAG,
                2,                          /* length */
                BIP_CH_ID_L2R,
                NO_FURTH_INFO,
                BEAR_DESC_TAG,
                4,                          /* length */
                BT_CSD,
                12,                         /* speed */
                2,                          /* name: PAD Access (async) (UDI) */
                1,                          /* connection element: non-transparent */
                BUF_SIZE_TAG,
                2,                          /* length */
                0x05, 0xdc                  /* buffer size: 1500 bytes */
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_TERM_RESP_OD_L2R)
        SET_COMP ("l_cmd", 0x00D0)
        SET_COMP ("o_cmd", 0x0000)
        SET_COMP ("cmd", STK_TERM_RESP_OD_L2R_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_TERM_RESP_OD_L2R_CONTENT, 26)
                CMD_DETAILS_TAG,
                3,                          /* command details length */
                1,                          /* command number */
                SAT_CMD_OPEN_CHANNEL,
                (QLF_OPCH_ON_DEMD_LINK_EST | QLF_OPCH_NO_AUTO_RECONNECT),
                DEV_ID_TAG,
                2,                          /* length */
                DEV_SRC_ME,
                DEV_DST_SIM,
                RESULT_TAG,
                1,                          /* length */
                RSLT_PERF_SUCCESS,
```

```
                CH_STATUS_TAG,
                2,                      /* length */
                BIP_CH_ID_L2R,
                NO_FURTH_INFO,
                BEAR_DESC_TAG,
                4,                      /* length */
                BT_CSD,
                12,                     /* speed */
                2,                      /* name: PAD Access (async) (UDI) */
                1,                      /* connection element: non-transparent */
                BUF_SIZE_TAG,
                2,                      /* length */
                0x05, 0xdc              /* buffer size: 1500 bytes */
ENDARRAY

/*
 * Send Data
 */
BEGIN_PSTRUCT ("stk_cmd", STK_TERM_RESP_SD_ST_255)
        SET_COMP ("l_cmd", 0x0078)
        SET_COMP ("o_cmd", 0x0000)
        SET_COMP ("cmd", STK_TERM_RESP_SD_ST_255_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_TERM_RESP_SD_ST_255_CONTENT, 15)
                CMD_DETAILS_TAG,
                3,                      /* command details length       */
                1,                      /* command number   */
                SAT_CMD_SEND_DATA,
                QLF_SNDDAT_TX,
                DEV_ID_TAG,
                2,                      /* device identities length                     */
                DEV_SRC_ME,
                DEV_DST_SIM,
                RESULT_TAG,
                1,                      /* length */
                RSLT_PERF_SUCCESS,
                CH_DATA_LENGTH_TAG,
                1,                      /* length */
                0xff                    /* more than 255 bytes are available */
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_TERM_RESP_SD_IM_255)
        SET_COMP ("l_cmd", 0x0078)
        SET_COMP ("o_cmd", 0x0000)
        SET_COMP ("cmd", STK_TERM_RESP_SD_IM_255_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_TERM_RESP_SD_IM_255_CONTENT, 15)
                CMD_DETAILS_TAG,
                3,                      /* command details length       */
                1,                      /* command number   */
                SAT_CMD_SEND_DATA,
                QLF_SNDDAT_IM,
                DEV_ID_TAG,
                2,                      /* device identities length                     */
                DEV_SRC_ME,
                DEV_DST_SIM,
                RESULT_TAG,
                1,                      /* length */
```

```
                RSLT_PERF_SUCCESS,
                CH_DATA_LENGTH_TAG,
                1,                      /* length */
                0xff                    /* more than 255 bytes are available */
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_TERM_RESP_SD_SUSPEND)
        SET_COMP ("l_cmd", 0x0080)
        SET_COMP ("o_cmd", 0x0000)
        SET_COMP ("cmd", STK_TERM_RESP_SD_SUSPEND_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_TERM_RESP_SD_SUSPEND_CONTENT, 16)
                CMD_DETAILS_TAG,
                3,                      /* command details length */
                1,                      /* command number */
                SAT_CMD_SEND_DATA,
                QLF_SNDDAT_IM,
                DEV_ID_TAG,
                2,                      /* device identities length */
                DEV_SRC_ME,
                DEV_DST_SIM,
                RESULT_TAG,
                2,                      /* length */
                RSLT_ME_UNAB_PROC,
                ADD_ME_CALL_BUSY,
                CH_DATA_LENGTH_TAG,
                1,                      /* length */
                0xff                    /* more than 255 bytes are available */
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_TERM_RESP_SD_CLOSED)
        SET_COMP ("l_cmd", 0x0080)
        SET_COMP ("o_cmd", 0x0000)
        SET_COMP ("cmd", STK_TERM_RESP_SD_CLOSED_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_TERM_RESP_SD_CLOSED_CONTENT, 16)
                CMD_DETAILS_TAG,
                3,                      /* command details length       */
                1,                      /* command number   */
                SAT_CMD_SEND_DATA,
                QLF_SNDDAT_IM,
                DEV_ID_TAG,
                2,                      /* device identities length                     */
                DEV_SRC_ME,
                DEV_DST_SIM,
                RESULT_TAG,
                2,                      /* length */
                RSLT_BEARIND_PERR,      /* BIP error */
                ADD_BIP_CHAN_CLOSD,     /* Channel closed */
                CH_DATA_LENGTH_TAG,
                1,                      /* length */
                0xFF                    /* more than 255 bytes are available */
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_TERM_RESP_SD_INVALID)
        SET_COMP ("l_cmd", 0x0080)
        SET_COMP ("o_cmd", 0x0000)
        SET_COMP ("cmd", STK_TERM_RESP_SD_INVALID_CONTENT)
```

```
ENDSTRUCT
BEGINARRAY_PART (STK_TERM_RESP_SD_INVALID_CONTENT, 16)
                CMD_DETAILS_TAG,
                3,                      /* command details length       */
                1,                      /* command number   */
                SAT_CMD_SEND_DATA,
                QLF_SNDDAT_IM,
                DEV_ID_TAG,
                2,                      /* device identities length                     */
                DEV_SRC_ME,
                DEV_DST_SIM,
                RESULT_TAG,
                2,                      /* length */
                RSLT_BEARIND_PERR,      /* BIP error */
                ADD_BIP_CHANID_NT_VLD,  /* Channel ID invalid */
                CH_DATA_LENGTH_TAG,
                1,                      /* length */
                0xFF                    /* more than 255 bytes are available */
ENDARRAY

/*
 * Receive Data
 */
BEGIN_PSTRUCT ("stk_cmd", STK_TERM_RESP_RD_235_235)
        SET_COMP ("l_cmd", 0x07E8)
        SET_COMP ("o_cmd", 0x0000)
        SET_COMP ("cmd", STK_TERM_RESP_RD_235_235_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_TERM_RESP_RD_235_235_CONTENT, 253)
                CMD_DETAILS_TAG,
                3,                      /* command details length       */
                1,                      /* command number   */
                SAT_CMD_RECEIVE_DATA,
                0,                      /* command qualifier RFU */
                DEV_ID_TAG,
                2,                      /* device identities length                     */
                DEV_SRC_ME,
                DEV_DST_SIM,
                RESULT_TAG,
                1,                      /* length */
                RSLT_PERF_SUCCESS,
                CH_DATA_TAG,
                0x81, 235,              /* length: >127   */
                /* channel data: 235 bytes      */
                RCV_DATA_235,
                CH_DATA_LENGTH_TAG,
                1,                      /* length */
                235                     /* still 235 bytes are available */
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_TERM_RESP_RD_235_0)
        SET_COMP ("l_cmd", 0x07E8)
        SET_COMP ("o_cmd", 0x0000)
        SET_COMP ("cmd", STK_TERM_RESP_RD_235_0_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_TERM_RESP_RD_235_0_CONTENT, 253)
                CMD_DETAILS_TAG,
                3,                      /* command details length       */
```

```
                1,                      /* command number   */
                SAT_CMD_RECEIVE_DATA,
                0,                      /* command qualifier RFU */
                DEV_ID_TAG,
                2,                      /* device identities length                    */
                DEV_SRC_ME,
                DEV_DST_SIM,
                RESULT_TAG,
                1,                      /* length */
                RSLT_PERF_SUCCESS,
                CH_DATA_TAG,
                0x81, 235,              /* length: >127  */
                /* channel data: 235 bytes  */
                RCV_DATA_235,
                CH_DATA_LENGTH_TAG,
                1,                      /* length */
                0                       /* no more bytes available */
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_TERM_RESP_RD_0_0)
        SET_COMP ("l_cmd", 0x0088)
        SET_COMP ("o_cmd", 0x0000)
        SET_COMP ("cmd", STK_TERM_RESP_RD_0_0_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_TERM_RESP_RD_0_0_CONTENT, 17)
                CMD_DETAILS_TAG,
                3,                      /* command details length       */
                1,                      /* command number   */
                SAT_CMD_RECEIVE_DATA,
                0,                      /* command qualifier RFU */
                DEV_ID_TAG,
                2,                      /* device identities length                    */
                DEV_SRC_ME,
                DEV_DST_SIM,
                RESULT_TAG,
                1,                      /* length */
                RSLT_PERF_MISS_INFO,
                CH_DATA_TAG,
                0,                      /* length: 0 */
                CH_DATA_LENGTH_TAG,
                1,                      /* length */
                0                       /* no more bytes available */
ENDARRAY

/*
 * Close Channel
 */
BEGIN_PSTRUCT ("stk_cmd", STK_TERM_RESP_CLCH)
        SET_COMP ("l_cmd", 0x0060)
        SET_COMP ("o_cmd", 0x0000)
        SET_COMP ("cmd", STK_TERM_RESP_CLCH_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_TERM_RESP_CLCH_CONTENT, 12)
                CMD_DETAILS_TAG,
                3,                      /* command details length       */
                1,                      /* command number   */
                SAT_CMD_CLOSE_CHANNEL,
```

```
                0,                          /* comnd qualifier RFU */
                DEV_ID_TAG,
                2,                          /* device identities length                    */
                DEV_SRC_ME,
                DEV_DST_SIM,
                RESULT_TAG,
                1,                          /* length */
                RSLT_PERF_SUCCESS
ENDARRAY

/*
```

1.4.8 Envelope

```
*/

BEGIN_PSTRUCT ("stk_cmd", STK_ENVELOPE_DA_UDP_255)
        SET_COMP ("l_cmd", 0x0080)
        SET_COMP ("o_cmd", 0x0000)
        SET_COMP ("cmd", STK_ENVELOPE_DA_UDP_255_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_ENVELOPE_DA_UDP_255_CONTENT, 16)
                EVENT_DOWNLOAD_TAG,
                14,                         /* following length */
                EVENT_LIST_TAG,
                1,                          /* event list length */
                EVENT_DATA_AVAIL,           /* data available event */
                DEV_ID_TAG,
                2,                          /* device identities length                    */
                DEV_SRC_ME,
                DEV_DST_SIM,
                CH_STATUS_TAG,
                2,                          /* length */
                BIP_CH_ID_UDP_ACTIVE,
                NO_FURTH_INFO,
                CH_DATA_LENGTH_TAG,
                1,                          /* length */
                0xff                        /* more than 255 bytes are available */
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_ENVELOPE_DA_SNDCP_255)
        SET_COMP ("l_cmd", 0x0080)
        SET_COMP ("o_cmd", 0x0000)
        SET_COMP ("cmd", STK_ENVELOPE_DA_SNDCP_255_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_ENVELOPE_DA_SNDCP_255_CONTENT, 16)
                EVENT_DOWNLOAD_TAG,
                14,                         /* following length */
                EVENT_LIST_TAG,
                1,                          /* event list length */
                EVENT_DATA_AVAIL,           /* data available event */
                DEV_ID_TAG,
                2,                          /* device identities length                    */
                DEV_SRC_ME,
                DEV_DST_SIM,
                CH_STATUS_TAG,
                2,                          /* length */
                BIP_CH_ID_SNDCP_ACTIVE,
```

```
                NO_FURTH_INFO,
                CH_DATA_LENGTH_TAG,
                1,                      /* length */
                0xff                    /* more than 255 bytes are available */
ENDARRAY

BEGIN_PSTRUCT ("stk_cmd", STK_ENVELOPE_DA_L2R_255)
        SET_COMP ("l_cmd", 0x0080)
        SET_COMP ("o_cmd", 0x0000)
        SET_COMP ("cmd", STK_ENVELOPE_DA_L2R_255_CONTENT)
ENDSTRUCT
BEGINARRAY_PART (STK_ENVELOPE_DA_L2R_255_CONTENT, 16)
                EVENT_DOWNLOAD_TAG,
                14,                     /* following length */
                EVENT_LIST_TAG,
                1,                      /* event list length */
                EVENT_DATA_AVAIL,       /* data available event */
                DEV_ID_TAG,
                2,                      /* device identities length                 */
                DEV_SRC_ME,
                DEV_DST_SIM,
                CH_STATUS_TAG,
                2,                      /* length */
                BIP_CH_ID_L2R_ACTIVE,
                NO_FURTH_INFO,
                CH_DATA_LENGTH_TAG,
                1,                      /* length */
                0xff                    /* more than 255 bytes are available */
ENDARRAY

/*
```

1.4.9 SDUs

```
*/

BEGIN_PSTRUCT("sdu", EMPTY_SDU)
        SET_COMP("l_buf", 0x0000)
        SET_COMP("o_buf", 0x0000)
        SKIP_COMP("buf")
ENDSTRUCT

/*
 * UDP
 */

SET_SDU(SDU_SEND_UDP_228, 0x0780, 0x0000)
                SIM_IP_LOCAL_DYNAMIC_1,
                SIM_IP_LOCAL_DYNAMIC_2,
                SIM_IP_LOCAL_DYNAMIC_3,
                SIM_IP_LOCAL_DYNAMIC_4,
                DESTINATION_IP_1,
                DESTINATION_IP_2,
                DESTINATION_IP_3,
                DESTINATION_IP_4,
                UDP_SRC_PORT_1,
                UDP_SRC_PORT_2,
                DESTINATION_PORT_1,
                DESTINATION_PORT_2,
```

SND_DATA_228
ENDSDU

SET_SDU(SDU_SEND_UDP_241, 0x07E8, 0x0000)
SIM_IP_LOCAL_DYNAMIC_1,
SIM_IP_LOCAL_DYNAMIC_2,
SIM_IP_LOCAL_DYNAMIC_3,
SIM_IP_LOCAL_DYNAMIC_4,
DESTINATION_IP_1,
DESTINATION_IP_2,
DESTINATION_IP_3,
DESTINATION_IP_4,
UDP_SRC_PORT_1,
UDP_SRC_PORT_2,
DESTINATION_PORT_1,
DESTINATION_PORT_2,
SND_DATA_241
ENDSDU

SET_SDU(SDU_SEND_UDP_254, 0x0850, 0x0000)
SIM_IP_LOCAL_DYNAMIC_1,
SIM_IP_LOCAL_DYNAMIC_2,
SIM_IP_LOCAL_DYNAMIC_3,
SIM_IP_LOCAL_DYNAMIC_4,
DESTINATION_IP_1,
DESTINATION_IP_2,
DESTINATION_IP_3,
DESTINATION_IP_4,
UDP_SRC_PORT_1,
UDP_SRC_PORT_2,
DESTINATION_PORT_1,
DESTINATION_PORT_2,
SND_DATA_127,
SND_DATA_127
ENDSDU

SET_SDU(SDU_SEND_UDP_482, 0x0f70, 0x0000)
SIM_IP_LOCAL_DYNAMIC_1,
SIM_IP_LOCAL_DYNAMIC_2,
SIM_IP_LOCAL_DYNAMIC_3,
SIM_IP_LOCAL_DYNAMIC_4,
DESTINATION_IP_1,
DESTINATION_IP_2,
DESTINATION_IP_3,
DESTINATION_IP_4,
UDP_SRC_PORT_1,
UDP_SRC_PORT_2,
DESTINATION_PORT_1,
DESTINATION_PORT_2,
SND_DATA_241,
SND_DATA_241
ENDSDU

SET_SDU(SDU_SEND_UDP_456, 0x0ea0, 0x0000)
SIM_IP_LOCAL_DYNAMIC_1,
SIM_IP_LOCAL_DYNAMIC_2,
SIM_IP_LOCAL_DYNAMIC_3,
SIM_IP_LOCAL_DYNAMIC_4,

```
                DESTINATION_IP_1,
                DESTINATION_IP_2,
                DESTINATION_IP_3,
                DESTINATION_IP_4,
                UDP_SRC_PORT_1,
                UDP_SRC_PORT_2,
                DESTINATION_PORT_1,
                DESTINATION_PORT_2,
                SND_DATA_228,
                SND_DATA_228
ENDSDU

SET_SDU(SDU_SEND_UDP_469, 0x0f08, 0x0000)
                SIM_IP_LOCAL_DYNAMIC_1,
                SIM_IP_LOCAL_DYNAMIC_2,
                SIM_IP_LOCAL_DYNAMIC_3,
                SIM_IP_LOCAL_DYNAMIC_4,
                DESTINATION_IP_1,
                DESTINATION_IP_2,
                DESTINATION_IP_3,
                DESTINATION_IP_4,
                UDP_SRC_PORT_1,
                UDP_SRC_PORT_2,
                DESTINATION_PORT_1,
                DESTINATION_PORT_2,
                SND_DATA_228,
                SND_DATA_241
ENDSDU

SET_SDU(SDU_RECEIVE_UDP_470, 0x0f10, 0x0000)
                SIM_IP_LOCAL_DYNAMIC_1,
                SIM_IP_LOCAL_DYNAMIC_2,
                SIM_IP_LOCAL_DYNAMIC_3,
                SIM_IP_LOCAL_DYNAMIC_4,
                DESTINATION_IP_1,
                DESTINATION_IP_2,
                DESTINATION_IP_3,
                DESTINATION_IP_4,
                UDP_SRC_PORT_1,
                UDP_SRC_PORT_2,
                DESTINATION_PORT_1,
                DESTINATION_PORT_2,
                RCV_DATA_235,
                RCV_DATA_235
ENDSDU

/*
 * SNDCP, L2R
 */
SET_SDU(SDU_SEND_228, 0x0720, 0x0000)
                SND_DATA_228
ENDSDU

SET_SDU(SDU_SEND_241, 0x0788, 0x0000)
                SND_DATA_241
ENDSDU

SET_SDU(SDU_SEND_254, 0x07f0, 0x0000)
```

```
                SND_DATA_127,
                SND_DATA_127
ENDSDU

SET_SDU(SDU_SEND_482, 0x0f10, 0x0000)
                SND_DATA_241,
                SND_DATA_241
ENDSDU

SET_SDU(SDU_SEND_456, 0x0e40, 0x0000)
                SND_DATA_228,
                SND_DATA_228
ENDSDU

SET_SDU(SDU_SEND_469, 0x0ea8, 0x0000)
                SND_DATA_228,
                SND_DATA_241
ENDSDU

SET_SDU(SDU_RECEIVE_470, 0x0eb0, 0x0000)
                RCV_DATA_235,
                RCV_DATA_235
ENDSDU

/*
```

1.4.10 Miscellaneous

```
*/

BEGIN_PSTRUCT ("stk_cmd", EMPTY_STK_CMD)
        SET_COMP ("l_cmd", 0x0000)
        SET_COMP ("o_cmd", 0x0000)
        SKIP_COMP ("cmd")
ENDSTRUCT


BEGIN_PSTRUCT ("stk_cmd", SIM_STATUS_STK)
        SET_COMP ("l_cmd", 0x00B0)
        SET_COMP ("o_cmd", 0x0000)
        SET_COMP ("cmd", SIM_STATUS_STK_CONTENT)
ENDSTRUCT

BEGINARRAY_PART (SIM_STATUS_STK_CONTENT, 22)
                0, 0, 0, 0,                     /* filler 1 */
                0x7F, 0x10,                     /* file- id */
                0, 0, 0, 0, 0, 0,               /* filler1a[6] */
                7,                              /* length */
                0,                              /* characterisics */
                0, 0, 0, 0,                     /* filler2[4] */
                3,                              /* pin status CHV1 */
                10,                             /* unbstatus CHV1 *
                3,                              /* pin status CHV2*/
                10                              /* unbstatus CHV2*/
ENDARRAY

/* Parameters for sending DTI primitives */
```

```
BEGIN_PSTRUCT ("st_lines", DTI_PARA_ST_LINES_BREAK_OFF)
        SET_COMP ("st_flow",          DTI_FLOW_ON)
        SET_COMP ("st_line_sa",       DTI_SA_ON)
        SET_COMP ("st_line_sb",       DTI_SB_ON)
        SET_COMP ("st_break_len", DTI_BREAK_OFF)
ENDSTRUCT

BEGIN_PSTRUCT ("parameters", DTI_PARAMETER_FRAME_UOS)
        SET_COMP ("p_id",         DTI_PID_UOS)
        SET_COMP ("st_lines",     DTI_PARA_ST_LINES_BREAK_OFF)
ENDSTRUCT

BEGIN_PSTRUCT ("parameters", DTI_PARAMETER_FRAME_IP)
        SET_COMP ("p_id",         DTI_PID_IP)
        SET_COMP ("st_lines",     DTI_PARA_ST_LINES_BREAK_OFF)
ENDSTRUCT
```

2 TEST CASES

2.1 Internal Routing

2.1.1 SIM000: Configure internal routing and PCO view

Description: Internal routing is configured and the duplication of primitives for performing the component tests with TAP and PCO view is carried out

Preamble: None

```
 MMI/MM/SMS                          SIM                          not used
      |                               |                               |
TIMEOUT (2000)
      |                               |                               |
COMMAND (TAP RESET)
COMMAND (MMI RESET)
COMMAND (CC RESET)
COMMAND (SS RESET)
COMMAND (SMS RESET)
COMMAND (MM RESET)
COMMAND (RR RESET)
COMMAND (DL RESET)
COMMAND (SIM RESET)
COMMAND (PL RESET)
COMMAND (UDP RESET)
COMMAND (SND RESET)
COMMAND (L2R RESET)
      |                               |                               |
COMMAND (TAP REDIRECT CLEAR)
COMMAND (MMI REDIRECT CLEAR)
COMMAND (CC REDIRECT CLEAR)
COMMAND (SS REDIRECT CLEAR)
COMMAND (SMS REDIRECT CLEAR)
COMMAND (MM REDIRECT CLEAR)
COMMAND (RR REDIRECT CLEAR)
COMMAND (DL REDIRECT CLEAR)
COMMAND (SIM REDIRECT CLEAR)
COMMAND (PL REDIRECT CLEAR)
COMMAND (UDP REDIRECT CLEAR)
COMMAND (SND REDIRECT CLEAR)
COMMAND (L2R REDIRECT CLEAR)
      |                               |                               |
COMMAND (SIM REDIRECT MMI TAP)
COMMAND (SIM REDIRECT MM TAP)
COMMAND (SIM REDIRECT SMS TAP)
COMMAND (SIM REDIRECT UDP TAP)
COMMAND (SIM REDIRECT SND TAP)
COMMAND (SIM REDIRECT L2R TAP)
      |                               |                               |
COMMAND (TAP REDIRECT TAP SIM)
      |                               |                               |
```

Parametrization

Primitive	Parameter	Value

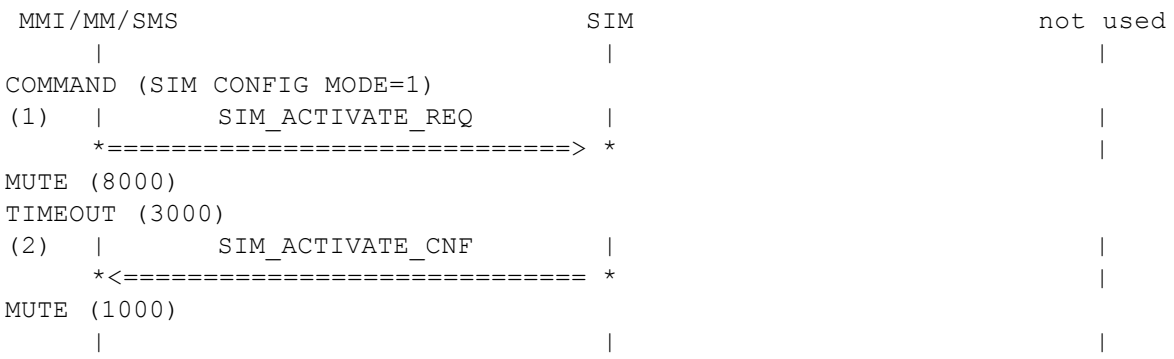
History:	28.08.98	LE	Initial Registration
	08-May-2002	STW	add SAT class e commands

2.2 SIM Activation

2.2.1 SIM001: No SIM card inserted

Description: The SIM application is activated. It is no SIM inserted.

Preamble: SIM000



Parametrization

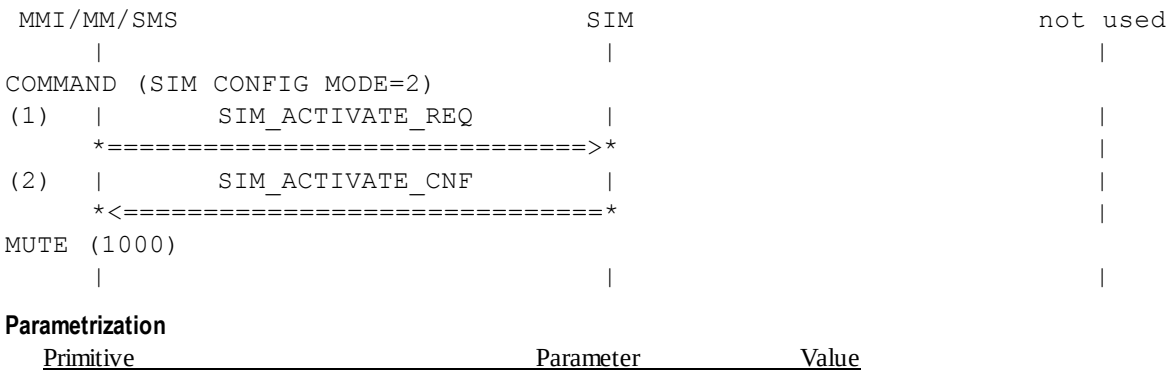
Primitive	Parameter	Value
(1) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	MMI_PROFILE
	stk_pro_file	STK_NOT_SUPPORTED
(2) SIM_ACTIVATE_CNF		
	cause	SIM_CAUSE_CARD_REMOVED
	pin_cnt	ZERO
	puk_cnt	ZERO
	pin2_cnt	ZERO
	puk2_cnt	ZERO
	ec_code	NO_EC_CODES
	pref_lang	NO_PREF_LANG
	atr	DISPLAY_ONLY

History:			
	28.09.98	LE	Initial
	24-Sep-2002	FK	Adaption to Cause Concept
	06-Mar-2003	FK	Timing made independent from TAP settings

2.2.2 SIM002: Blocked SIM card inserted

Description: The SIM application is activated. It is a blocked SIM card inserted.

Preamble: SIM000



Parametrization

Primitive	Parameter	Value
(1) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	MMI_PROFILE
	stk_pro_file	STK_NOT_SUPPORTED

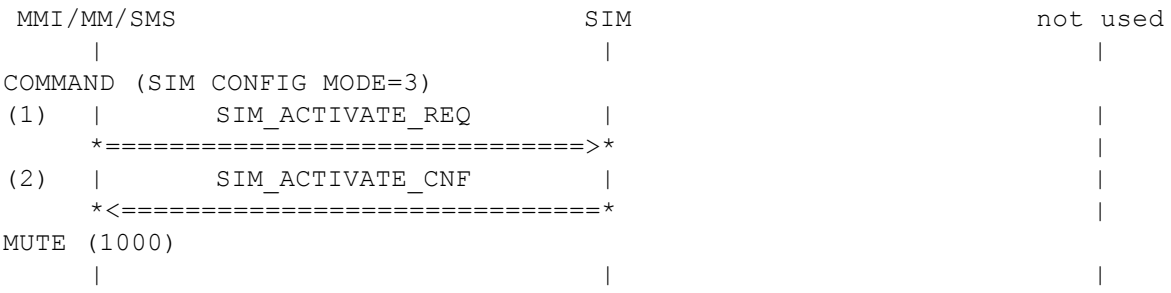
(2) SIM_ACTIVATE_CNF		
	cause	SIM_CAUSE_PUK1_EXPECT
	pin_cnt	ZERO
	puk_cnt	PUK_5_ATTEMPTS
	pin2_cnt	NOT_USED
	puk2_cnt	NOT_USED
	ec_code	EC_CODES
	pref_lang	LP_CODES
	atr	DISPLAY_ONLY

History:	28.09.98	LE	Initial
	24-Sep-2002	FK	Adaption to Cause Concept
	06-Mar-2003	FK	Cause value corrected

2.2.3 SIM003: SIM Card defect

Description: The SIM application is activated. The inserted SIM card is defect (not readable).

Preamble: SIM000



Parametrization

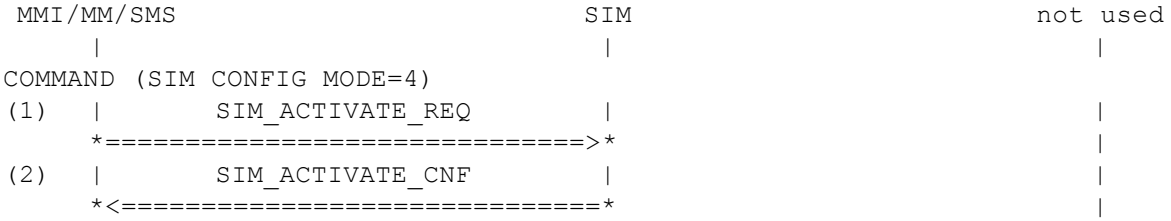
Primitive	Parameter	Value
(1) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	MMI_PROFILE
	stk_pro_file	STK_NOT_SUPPORTED
(2) SIM_ACTIVATE_CNF		
	cause	SIM_CAUSE_OTHER_ERROR
	pin_cnt	ZERO
	puk_cnt	ZERO
	pin2_cnt	ZERO
	puk2_cnt	ZERO
	ec_code	NO_EC_CODES
	pref_lang	NO_PREF_LANG
	atr	DISPLAY_ONLY

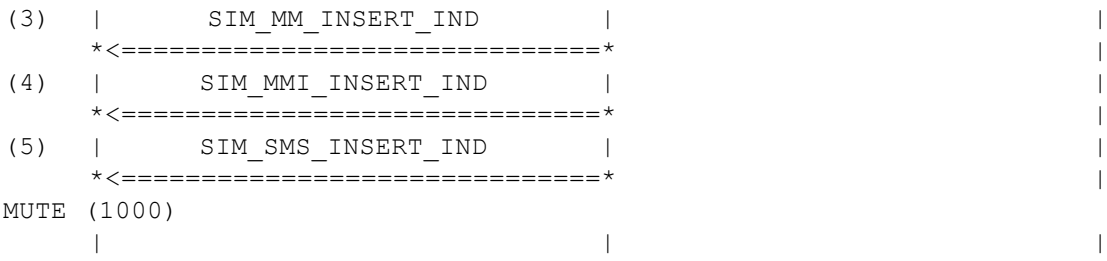
History:	29.09.98	LE	Initial
	24-Sep-2002	FK	Adaption to Cause Concept

2.2.4 SIM004: Phase 1 SIM, no PIN entering

Description: The SIM application is activated. The inserted SIM card is a phase 1 SIM card without PIN entering. MM, MMI and SMS are informed with the important parameters for the components.

Preamble: SIM000





Parametrization

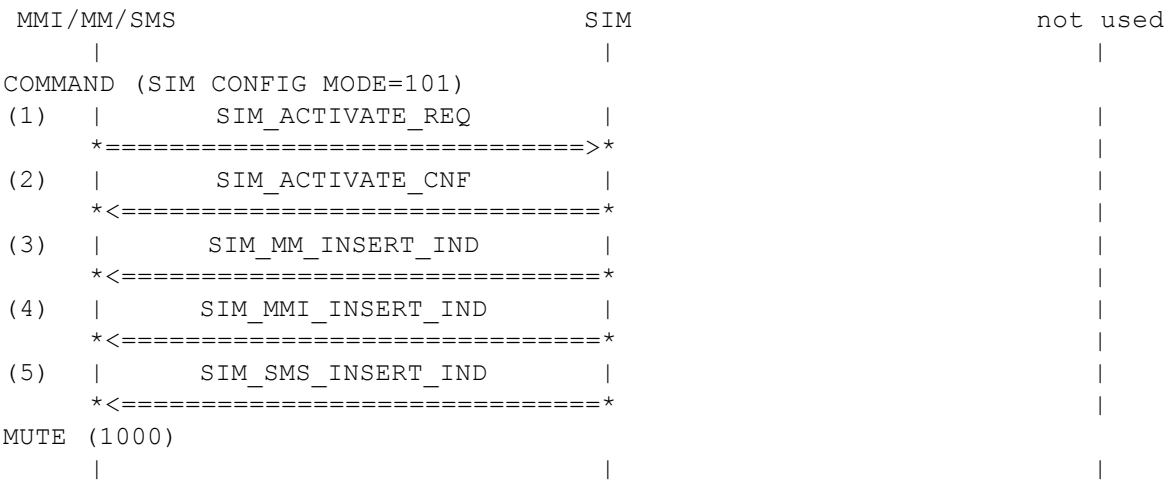
Primitive	Parameter	Value
(1) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	MMI_PROFILE_ADN
	stk_pro_file	STK_NOT_SUPPORTED
(2) SIM_ACTIVATE_CNF		
	cause	SIM_NO_ERROR
	pin_cnt	PIN_3_ATTEMPTS
	puk_cnt	PUK_10_ATTEMPTS
	pin2_cnt	ZERO
	puk2_cnt	ZERO
	ec_code	NO_EC_CODES
	pref_lang	NO_PREF_LANG
	atr	DISPLAY_ONLY
(3) SIM_MM_INSERT_IND		
	op_mode	OP_TA_SPECIAL
	imsi_field	IMSI
	loc_info	LOC_INFO
	acc_ctrl	ACC_CTRL
	bcch_inf	BCCH_INFO
	kc_n	KC_N
	pref_plmn	PREF_PLMN
	forb_plmn	FORB_PLMN
	phase	PHASE_1_SIM
	hplmn	HPLMN_DEF
(4) SIM_MMI_INSERT_IND		
	func	SIM_ADN_ENABLED
	sim_serv	SIM_SERV_PHASE_1
	imsi_field	IMSI
	pref_plmn	PREF_PLMN
	phase	PHASE_1_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED
(5) SIM_SMS_INSERT_IND		
	phase	PHASE_1_SIM
	tp_mr	TP_MR_1
	mem_cap_avail	SIM_SMS_MEM_AVAIL
	download_sms	DOWNLOAD_SMS_NO
	smsr_mem_cap	SIM_SMSR_DISABLE

History:			
	29.09.98	LE	Initial
	07-Mar-2000	FK	SIM_SMS_INSERT_IND extended
	10-May-2000	FK	Phase 1 response regarded
	24-Sep-2002	FK	Adaption to Cause Concept

2.2.5 SIM032: Phase 1 SIM with no SMS memory, no PIN entering

Description: The SIM application is activated. The inserted SIM card is a phase 1 SIM card without PIN entering. MM, MMI and SMS are informed with the important parameters for the components.

Preamble: SIM000



Parametrization

Primitive	Parameter	Value
(1) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	MMI_PROFILE_ADN
	stk_pro_file	STK_NOT_SUPPORTED
(2) SIM_ACTIVATE_CNF		
	cause	SIM_NO_ERROR
	pin_cnt	PIN_3_ATTEMPTS
	puk_cnt	PUK_10_ATTEMPTS
	pin2_cnt	ZERO
	puk2_cnt	ZERO
	ec_code	NO_EC_CODES
	pref_lang	NO_PREF_LANG
	atr	DISPLAY_ONLY
(3) SIM_MM_INSERT_IND		
	op_mode	OP_TA_SPECIAL
	imsi_field	IMSI
	loc_info	LOC_INFO
	acc_ctrl	ACC_CTRL
	bcch_inf	BCCH_INFO
	kc_n	KC_N
	pref_plmn	PREF_PLMN
	forb_plmn	FORB_PLMN
	phase	PHASE_1_SIM
	hplmn	HPLMN_DEF
(4) SIM_MMI_INSERT_IND		
	func	SIM_ADN_ENABLED
	sim_serv	SIM_SERV_PHASE_1_NO_SMS
	imsi_field	IMSI
	pref_plmn	PREF_PLMN
	phase	PHASE_1_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED

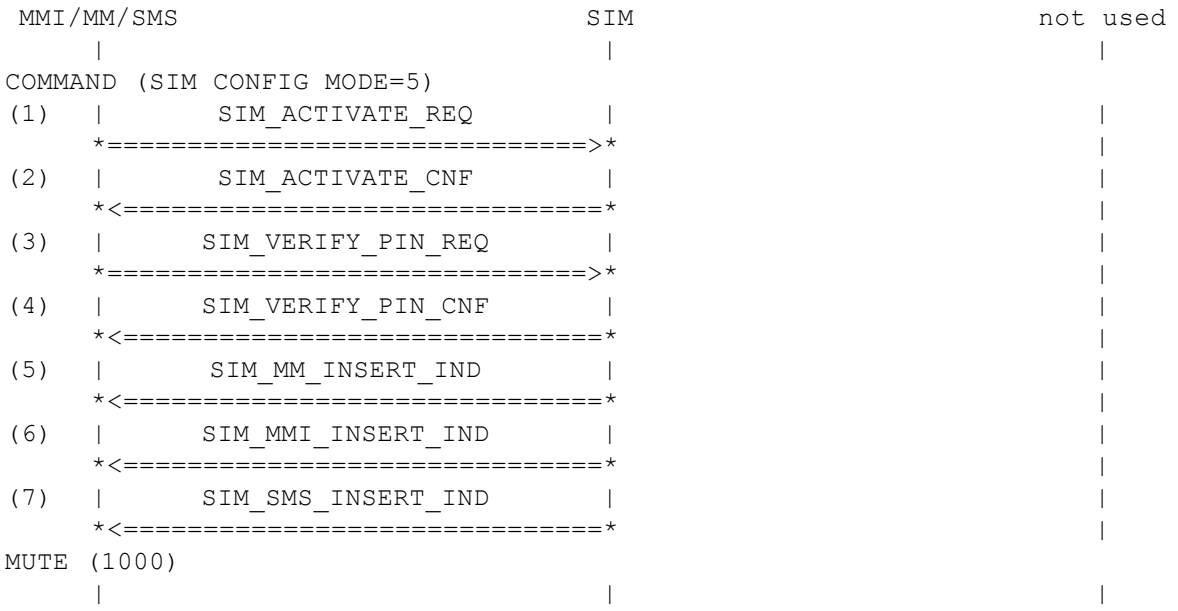
(5) SIM_SMS_INSERT_IND		
	phase	PHASE_1_SIM
	tp_mr	ZERO
	mem_cap_avail	SIM_SMS_NO_MEM
	download_sms	DOWNLOAD_SMS_NO
	smsr_mem_cap	SIM_SMSR_DISABLE

History:	29.09.98	LE	Initial
	07-Mar-2000	FK	SIM_SMS_INSERT_IND extended
	10-May-2000	FK	Phase 1 response regarded
	24-Sep-2002	FK	Adaption to Cause Concept

2.2.6 SIM005: Phase 1 SIM, PIN entering

Description: The SIM application is activated. The inserted SIM card is a phase 1 SIM card with PIN entering. MM, MMI and SMS are informed with the important parameters for the components.

Preamble: SIM000



Parametrization

Primitive	Parameter	Value
(1) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	MMI_PROFILE_ADN
	stk_pro_file	STK_NOT_SUPPORTED
(2) SIM_ACTIVATE_CNF		
	cause	SIM_CAUSE_PIN1_EXPECT
	pin_cnt	PIN_3_ATTEMPTS
	puk_cnt	PUK_10_ATTEMPTS
	pin2_cnt	ZERO
	puk2_cnt	ZERO
	ec_code	NO_EC_CODES
	pref_lang	NO_PREF_LANG
	atr	DISPLAY_ONLY
(3) SIM_VERIFY_PIN_REQ		
	source	SRC_MMI
	pin	PIN_1_VALUE
	pin_id	PIN_1

(4) SIM_VERIFY_PIN_CNF

cause	SIM_NO_ERROR
pin_id	PIN_1
pin_cnt	PIN_3_ATTEMPTS
puk_cnt	PUK_10_ATTEMPTS
pin2_cnt	ZERO
puk2_cnt	ZERO

(5) SIM_MM_INSERT_IND

op_mode	OP_TA_SPECIAL
imsi_field	IMSI
loc_info	LOC_INFO
acc_ctrl	ACC_CTRL
bcch_inf	BCCH_INFO
kc_n	KC_N
pref_plmn	PREF_PLMN
forb_plmn	FORB_PLMN
phase	PHASE_1_SIM
hplmn	HPLMN_DEF

(6) SIM_MMI_INSERT_IND

func	SIM_ADN_ENABLED
sim_serv	SIM_SERV_PHASE_1
imsi_field	IMSI
pref_plmn	PREF_PLMN
phase	PHASE_1_SIM
access_acm	NOT_USED
access_acmmax	NOT_USED
access_puct	NOT_USED

(7) SIM_SMS_INSERT_IND

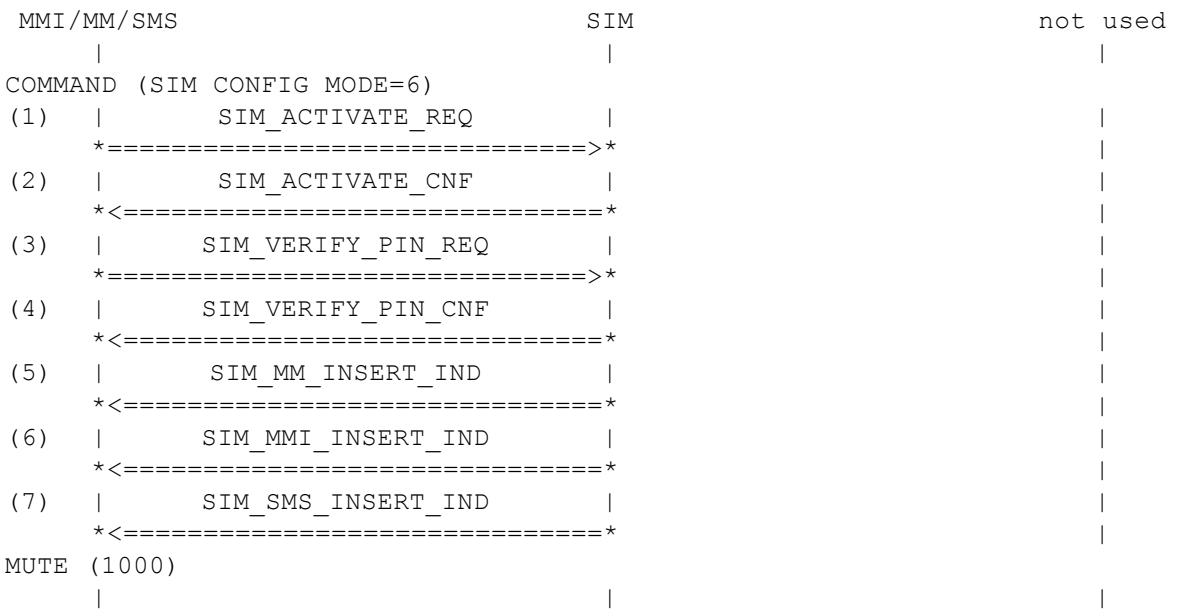
phase	PHASE_1_SIM
tp_mr	TP_MR_1
mem_cap_avail	MEM_IS_AVAILABLE
download_sms	DOWNLOAD_SMS_NO
smsr_mem_cap	SIM_SMSR_DISABLE

History:			
	29.09.98	LE	Initial
	07-Mar-2000	FK	SIM_SMS_INSERT_IND extended
	10-May-2000	FK	Phase 1 response regarded
	24-Sep-2002	FK	Adaption to Cause Concept

2.2.7 SIM006: Phase 1 SIM, DCS1800 compatible, PIN entering

Description: The SIM application is activated. The inserted SIM card is a phase 1 SIM card for DCS 1800 with PIN entering. MM, MMI and SMS are informed with the important parameters for the components. These old SIM cards use DF 1800 instead of DF GSM. The SIM application shall be backward compatible.

Preamble: SIM000



Parametrization

Primitive	Parameter	Value
(1) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	MMI_PROFILE_ADN
	stk_pro_file	STK_NOT_SUPPORTED
(2) SIM_ACTIVATE_CNF		
	cause	SIM_CAUSE_PIN1_EXPECT
	pin_cnt	PIN_3_ATTEMPTS
	puk_cnt	PUK_10_ATTEMPTS
	pin2_cnt	ZERO
	puk2_cnt	ZERO
	ec_code	NO_EC_CODES
	pref_lang	NO_PREF_LANG
	atr	DISPLAY_ONLY
(3) SIM_VERIFY_PIN_REQ		
	source	SRC_MMI
	pin	PIN_1_VALUE
	pin_id	PIN_1
(4) SIM_VERIFY_PIN_CNF		
	cause	SIM_NO_ERROR
	pin_id	PIN_1
	pin_cnt	PIN_3_ATTEMPTS
	puk_cnt	NOT_USED
	pin2_cnt	NOT_USED
	puk2_cnt	NOT_USED
(5) SIM_MM_INSERT_IND		
	op_mode	OP_TA_SPECIAL
	imsi_field	IMSI
	loc_info	LOC_INFO
	acc_ctrl	ACC_CTRL
	bcch_inf	BCCH_INFO
	kc_n	KC_N
	pref_plmn	PREF_PLMN
	forb_plmn	FORB_PLMN
	phase	PHASE_1_SIM
	hplmn	HPLMN_DEF

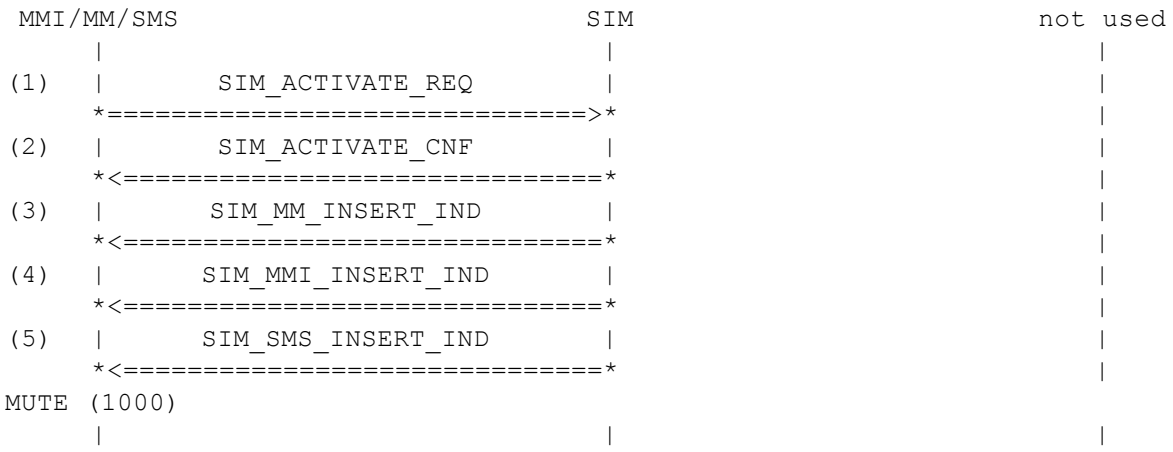
(6)	SIM_MMI_INSERT_IND		
		func	SIM_ADN_ENABLED
		sim_serv	SIM_SERV_PHASE_1
		imsi_field	IMSI
		pref_plmn	PREF_PLMN
		phase	PHASE_1_SIM
		access_acm	NOT_USED
		access_acmmax	NOT_USED
		access_puct	NOT_USED
(7)	SIM_SMS_INSERT_IND		
		phase	PHASE_1_SIM
		tp_mr	TP_MR_1
		mem_cap_avail	MEM_IS_AVAILABLE
		download_sms	DOWNLOAD_SMS_NO
		smsr_mem_cap	SIM_SMSR_DISABLE

History:	29.09.98	LE	Initial
	07-Mar-2000	FK	SIM_SMS_INSERT_IND extended
	10-May-2000	FK	Phase 1 response regarded
	24-Sep-2002	FK	Adaption to Cause Concept

2.2.8 SIM007: Phase 2 SIM, no PIN entering

Description: The SIM application is activated. The inserted SIM card is a phase 2 SIM without PIN entering. MM, MMI and SMS are informed with the important parameters for the components. This preamble shall be the default one for the multilayer test and needs no mode definition for a specific test szenario.

Preamble: SIM000



Parametrization

Primitive	Parameter	Value
(1) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	MMI_PROFILE_ADN_FDN
	stk_pro_file	STK_NOT_SUPPORTED
(2) SIM_ACTIVATE_CNF		
	cause	SIM_NO_ERROR
	pin_cnt	PIN_3_ATTEMPTS
	puk_cnt	PUK_10_ATTEMPTS
	pin2_cnt	PIN_3_ATTEMPTS
	puk2_cnt	PUK_10_ATTEMPTS
	ec_code	EC_CODES
	pref_lang	LP_CODES
	atr	DISPLAY_ONLY

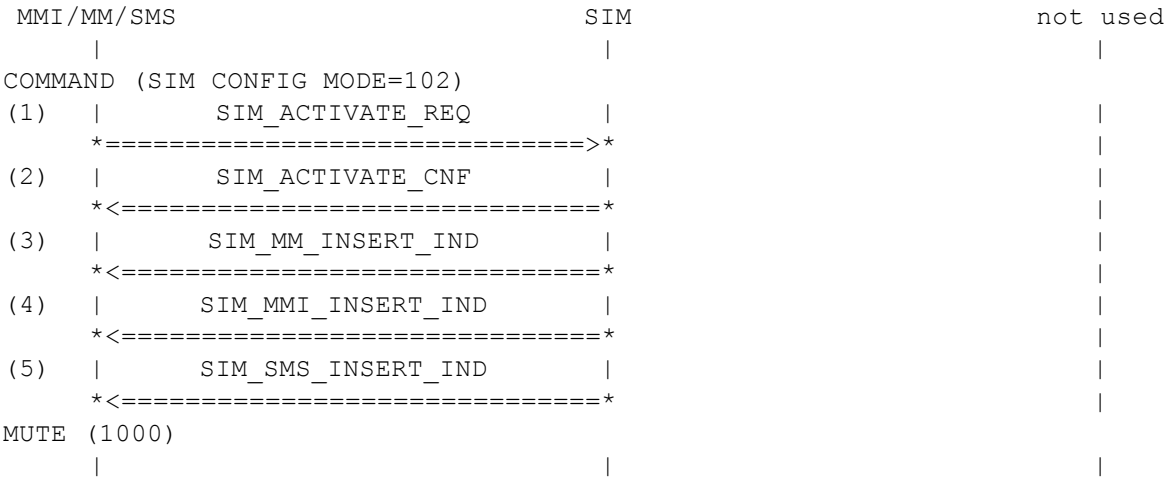
(3)	SIM_MM_INSERT_IND		
		op_mode	OP_TA_SPECIAL
		imsi_field	IMSI
		loc_info	LOC_INFO
		acc_ctrl	ACC_CTRL
		bcch_inf	BCCH_INFO
		kc_n	KC_N
		pref_plmn	PREF_PLMN
		forb_plmn	FORB_PLMN
		phase	PHASE_2_SIM
		hplmn	HPLMN_1
(4)	SIM_MMI_INSERT_IND		
		func	SIM_ADN_ENABLED
		sim_serv	SIM_SERV_PHASE_2
		imsi_field	IMSI
		pref_plmn	PREF_PLMN
		phase	PHASE_2_SIM
		access_acm	NOT_USED
		access_acmmax	NOT_USED
		access_puct	NOT_USED
(5)	SIM_SMS_INSERT_IND		
		phase	PHASE_2_SIM
		tp_mr	TP_MR_1
		mem_cap_avail	MEM_IS_AVAILABLE
		download_sms	DOWNLOAD_SMS_NO
		smsr_mem_cap	SIM_SMSR_DISABLE

History:	29.09.98	LE	Initial
	07-Mar-2000	FK	SIM_SMS_INSERT_IND extended
	24-Sep-2002	FK	Adaption to Cause Concept

2.2.9 SIM033: Phase 2 SIM with SMS Status Report Memory, no PIN entering

Description: The SIM application is activated. The inserted SIM card is a phase 2 SIM with SMS Status Report Memory and without PIN entering. MM, MMI and SMS are informed with the important parameters for the components.

Preamble: SIM000



Parametrization

Primitive	Parameter	Value
(1) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	MMI_PROFILE_ADN_FDN
	stk_pro_file	STK_NOT_SUPPORTED

(2) SIM_ACTIVATE_CNF

cause	SIM_NO_ERROR
pin_cnt	PIN_3_ATTEMPTS
puk_cnt	PUK_10_ATTEMPTS
pin2_cnt	NOT_USED
puk2_cnt	NOT_USED
ec_code	EC_CODES
pref_lang	LP_CODES
atr	DISPLAY_ONLY

(3) SIM_MM_INSERT_IND

op_mode	OP_TA_SPECIAL
imsi_field	IMSI
loc_info	LOC_INFO
acc_ctrl	ACC_CTRL
bcch_inf	BCCH_INFO
kc_n	KC_N
pref_plmn	PREF_PLMN
forb_plmn	FORB_PLMN
phase	PHASE_2_SIM
hplmn	HPLMN_1

(4) SIM_MMI_INSERT_IND

func	SIM_ADN_ENABLED
sim_serv	SIM_SERV_PHASE_2_SMSR
imsi_field	IMSI
pref_plmn	PREF_PLMN
phase	PHASE_2_SIM
access_acm	NOT_USED
access_acmmax	NOT_USED
access_puct	NOT_USED

(5) SIM_SMS_INSERT_IND

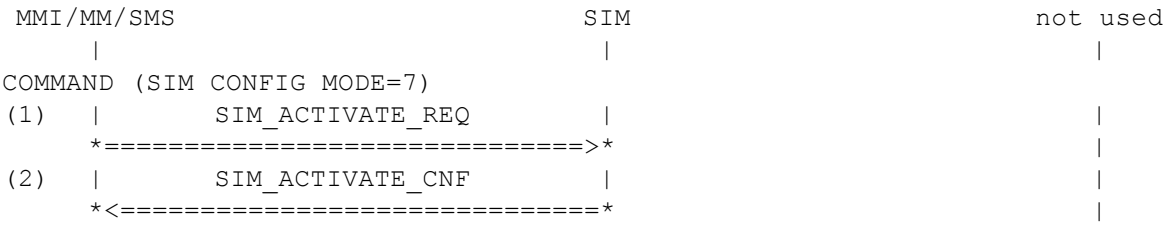
phase	PHASE_2_SIM
tp_mr	TP_MR_1
mem_cap_avail	MEM_IS_AVAILABLE
download_sms	DOWNLOAD_SMS_NO
smsr_mem_cap	SIM_SMSR_ENABLE

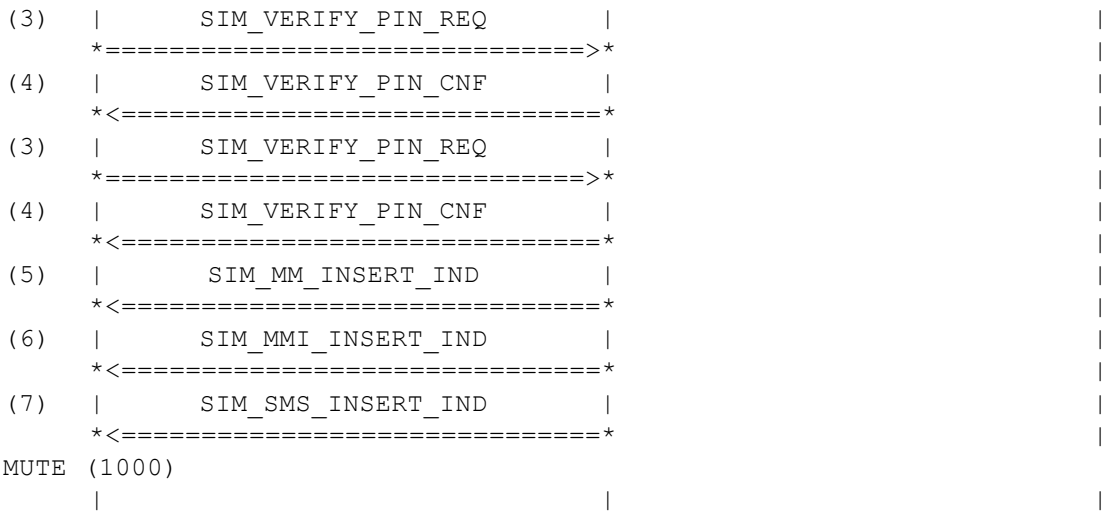
History:	29.09.98	LE	Initial
	07-Mar-2000	FK	SIM_SMS_INSERT_IND extended
	24-Sep-2002	FK	Adaption to Cause Concept

2.2.10 SIM008: Phase 2 SIM, PIN entering

Description: The SIM application is activated. The inserted SIM card is a phase 2 SIM with PIN entering. The first time a wrong PIN is entered, the second time the right one. MM, MMI and SMS are informed with the important parameters for the components.

Preamble: SIM000





Parametrization

Primitive	Parameter	Value
(1) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	MMI_PROFILE_ADN_FDN
	stk_pro_file	STK_NOT_SUPPORTED
(2) SIM_ACTIVATE_CNF		
	cause	SIM_CAUSE_PIN1_EXPECT
	pin_cnt	PIN_3_ATTEMPTS
	puk_cnt	PUK_10_ATTEMPTS
	pin2_cnt	PIN_3_ATTEMPTS
	puk2_cnt	PUK_10_ATTEMPTS
	ec_code	EC_CODES
	pref_lang	LP_CODES
	atr	DISPLAY_ONLY
(3) SIM_VERIFY_PIN_REQ		
	source	SRC_MMI
	pin	PIN_1_WRONG
	pin_id	PHASE_2_PIN_1
(4) SIM_VERIFY_PIN_CNF		
	cause	SIM_CAUSE_PIN1_EXPECT
	pin_id	PHASE_2_PIN_1
	pin_cnt	PIN_2_ATTEMPTS
	puk_cnt	PUK_10_ATTEMPTS
	pin2_cnt	PIN_3_ATTEMPTS
	puk2_cnt	PUK_10_ATTEMPTS
(5) SIM_VERIFY_PIN_REQ		
	source	SRC_MMI
	pin	PIN_1_VALUE
	pin_id	PHASE_2_PIN_1
(6) SIM_VERIFY_PIN_CNF		
	cause	SIM_NO_ERROR
	pin_id	PIN_1
	pin_cnt	PIN_3_ATTEMPTS
	puk_cnt	PUK_10_ATTEMPTS
	pin2_cnt	PIN_3_ATTEMPTS
	puk2_cnt	PUK_10_ATTEMPTS

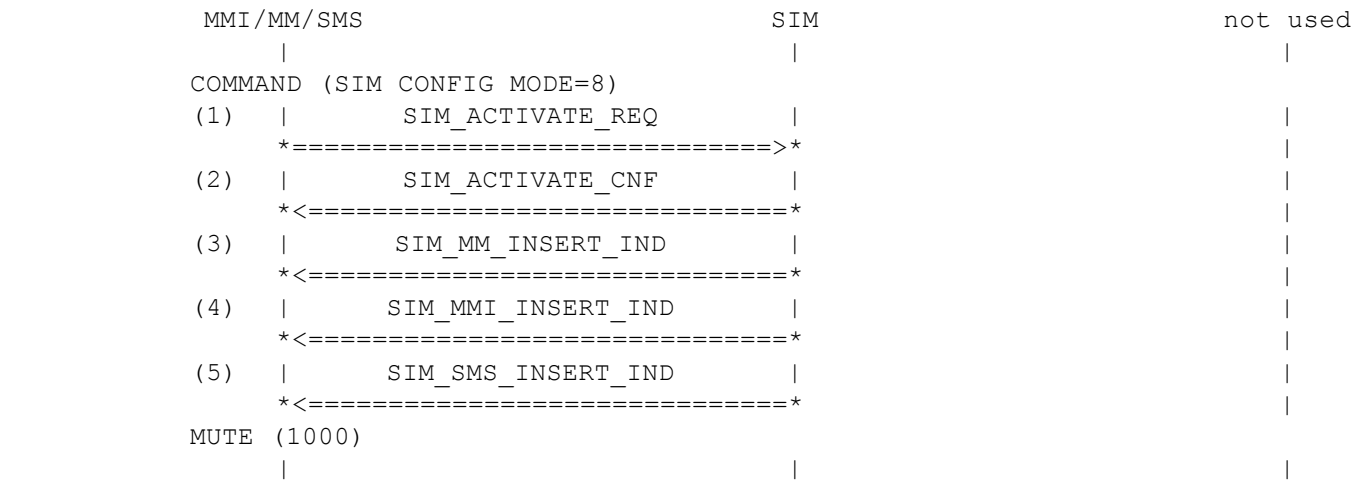
(7)	SIM_MM_INSERT_IND		
		op_mode	OP_TA_SPECIAL
		imsi_field	IMSI
		loc_info	LOC_INFO
		acc_ctrl	ACC_CTRL
		bcch_inf	BCCH_INFO
		kc_n	KC_N
		pref_plmn	PREF_PLMN
		forb_plmn	FORB_PLMN
		phase	PHASE_2_SIM
		hplmn	HPLMN_1
(8)	SIM_MMI_INSERT_IND		
		func	SIM_ADN_ENABLED
		sim_serv	SIM_SERV_PHASE_2
		imsi_field	IMSI
		pref_plmn	PREF_PLMN
		phase	PHASE_2_SIM
		access_acm	NOT_USED
		access_acmmax	NOT_USED
		access_puct	NOT_USED
(9)	SIM_SMS_INSERT_IND		
		phase	PHASE_2_SIM
		tp_mr	TP_MR_1
		mem_cap_avail	MEM_IS_AVAILABLE
		download_sms	DOWNLOAD_SMS_NO
		smsr_mem_cap	SIM_SMSR_DISABLE

History:	29.09.98	LE	Initial
	07-Mar-2000	FK	SIM_SMS_INSERT_IND extended
	24-Sep-2002	FK	Adaption to Cause Concept

2.2.11 SIM009: Phase 2+ SIM, no PIN entering

Description: The SIM application is activated. The inserted SIM card is a phase 2+ SIM without PIN entering. MM, MMI and SMS are informed with the important parameters for the components. The mobile has no SIM toolkit capabilities.

Preamble: SIM000



Parametrization

Primitive	Parameter	Value
(1) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	MMI_PROFILE
	stk_pro_file	STK_NOT_SUPPORTED

(2) SIM_ACTIVATE_CNF

cause	SIM_NO_ERROR
pin_cnt	PIN_3_ATTEMPTS
puk_cnt	PUK_10_ATTEMPTS
pin2_cnt	NOT_USED
puk2_cnt	NOT_USED
ec_code	EC_CODES
pref_lang	LP_CODES
atr	DISPLAY_ONLY

(3) SIM_MM_INSERT_IND

op_mode	OP_TA_SPECIAL
imsi_field	IMSI
loc_info	LOC_INFO
acc_ctrl	ACC_CTRL
bcch_inf	BCCH_INFO
kc_n	KC_N
pref_plmn	PREF_PLMN
forb_plmn	FORB_PLMN
phase	PHASE_2_PLUS_SIM
hplmn	HPLMN_1

(4) SIM_MMI_INSERT_IND

func	SIM_ADN_ENABLED
sim_serv	SIM_SERV_PHASE_2_PLUS
imsi_field	IMSI
pref_plmn	PREF_PLMN
phase	PHASE_2_PLUS_SIM
access_acm	NOT_USED
access_acmmax	NOT_USED
access_puct	NOT_USED

(5) SIM_SMS_INSERT_IND

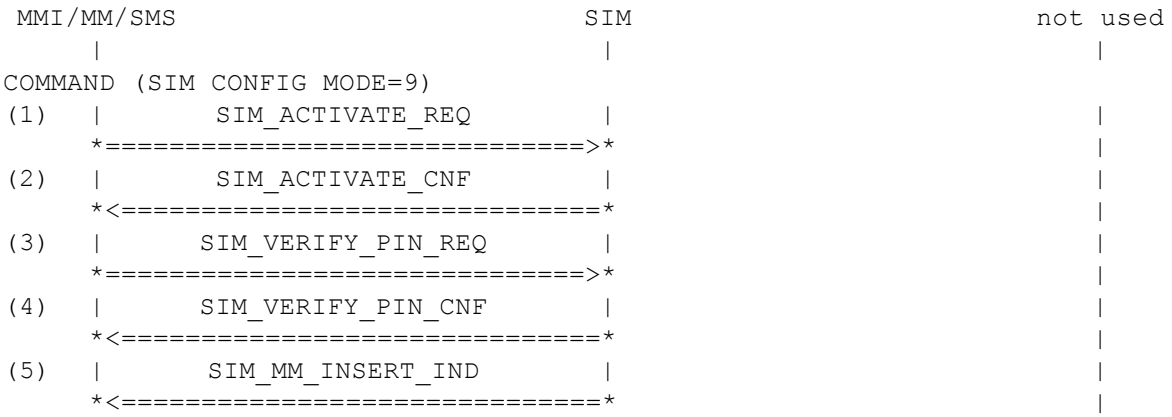
phase	PHASE_2_PLUS_SIM
tp_mr	TP_MR_1
mem_cap_avail	MEM_IS_AVAILABLE
download_sms	DOWNLOAD_SMS_YES
smsr_mem_cap	SIM_SMSR_DISABLE

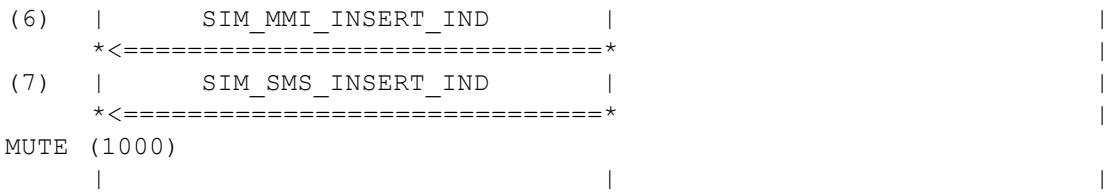
History:	29.09.98	LE	Initial
	07-Mar-2000	FK	SIM_SMS_INSERT_IND extended
	24-Sep-2002	FK	Adaption to Cause Concept

2.2.12 SIM010: Phase 2+ SIM, PIN entering

Description: The SIM application is activated. The inserted SIM card is a phase 2+ SIM with PIN entering. MM, MMI and SMS are informed with the important parameters for the components. The mobile has no SIM toolkit capabilities.

Preamble: SIM000





Parametrization

Primitive	Parameter	Value
(1) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	MMI_PROFILE
	stk_pro_file	STK_NOT_SUPPORTED
(2) SIM_ACTIVATE_CNF		
	cause	SIM_CAUSE_PIN1_EXPECT
	pin_cnt	PIN_3_ATTEMPTS
	puk_cnt	PUK_10_ATTEMPTS
	pin2_cnt	NOT_USED
	puk2_cnt	NOT_USED
	ec_code	EC_CODES
	pref_lang	LP_CODES
	atr	DISPLAY_ONLY
(3) SIM_VERIFY_PIN_REQ		
	source	SRC_MMI
	pin	PIN_1_VALUE
	pin_id	PHASE_2_PIN_1
(4) SIM_VERIFY_PIN_CNF		
	cause	SIM_NO_ERROR
	pin_id	PHASE_2_PIN_1
	pin_cnt	PIN_3_ATTEMPTS
	puk_cnt	PUK_10_ATTEMPTS
	pin2_cnt	NOT_USED
	puk2_cnt	NOT_USED
(5) SIM_MM_INSERT_IND		
	op_mode	OP_TA_SPECIAL
	imsi_field	IMSI
	loc_info	LOC_INFO
	acc_ctrl	ACC_CTRL
	bcch_inf	BCCH_INFO
	kc_n	KC_N
	pref_plmn	PREF_PLMN
	forb_plmn	FORB_PLMN
	phase	PHASE_2_PLUS_SIM
	hplmn	HPLMN_1
(6) SIM_MMI_INSERT_IND		
	func	SIM_ADN_ENABLED
	sim_serv	SIM_SERV_PHASE_2_PLUS
	imsi_field	IMSI
	pref_plmn	PREF_PLMN
	phase	PHASE_2_PLUS_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED

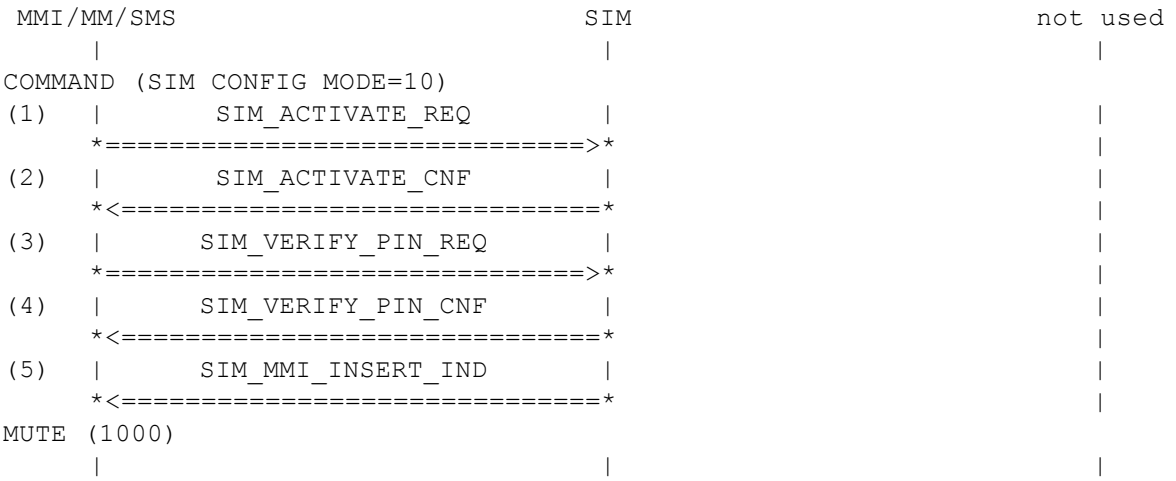
(7)	SIM_SMS_INSERT_IND		
		phase	PHASE_2_PLUS_SIM
		tp_mr	TP_MR_1
		mem_cap_avail	MEM_IS_AVAILABLE
		download_sms	DOWNLOAD_SMS_YES
		smsr_mem_cap	SIM_SMSR_DISABLE

History:	29.09.98	LE	Initial
	07-Mar-2000	FK	SIM_SMS_INSERT_IND extended
	24-Sep-2002	FK	Adaption to Cause Concept

2.2.13 SIM011: Phase 2 SIM, IMSI+Loci invalidated, no FDN support

Description: The SIM application is activated. The inserted SIM card is a phase 2 SIM with PIN entering. The IMSI and Location information field are invalidated. The mobile doesn´t support Call Control by SIM and no FDN. The result of the initialisation procedure is no operation.

Preamble: SIM000



Parametrization

Primitive	Parameter	Value
(1) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	MMI_PROFILE_ADN
	stk_pro_file	STK_NOT_SUPPORTED
(2) SIM_ACTIVATE_CNF		
	cause	SIM_CAUSE_PIN1_EXPECT
	pin_cnt	PIN_3_ATTEMPTS
	puk_cnt	PUK_10_ATTEMPTS
	pin2_cnt	NOT_USED
	puk2_cnt	NOT_USED
	ec_code	EC_CODES
	pref_lang	LP_CODES
	atr	DISPLAY_ONLY
(3) SIM_VERIFY_PIN_REQ		
	source	SRC_MMI
	pin	PIN_1_VALUE
	pin_id	PHASE_2_PIN_1
(4) SIM_VERIFY_PIN_CNF		
	cause	SIM_NO_ERROR
	pin_id	PHASE_2_PIN_1
	pin_cnt	PIN_3_ATTEMPTS
	puk_cnt	PUK_10_ATTEMPTS
	pin2_cnt	NOT_USED
	puk2_cnt	NOT_USED

(5) SIM_MMI_INSERT_IND

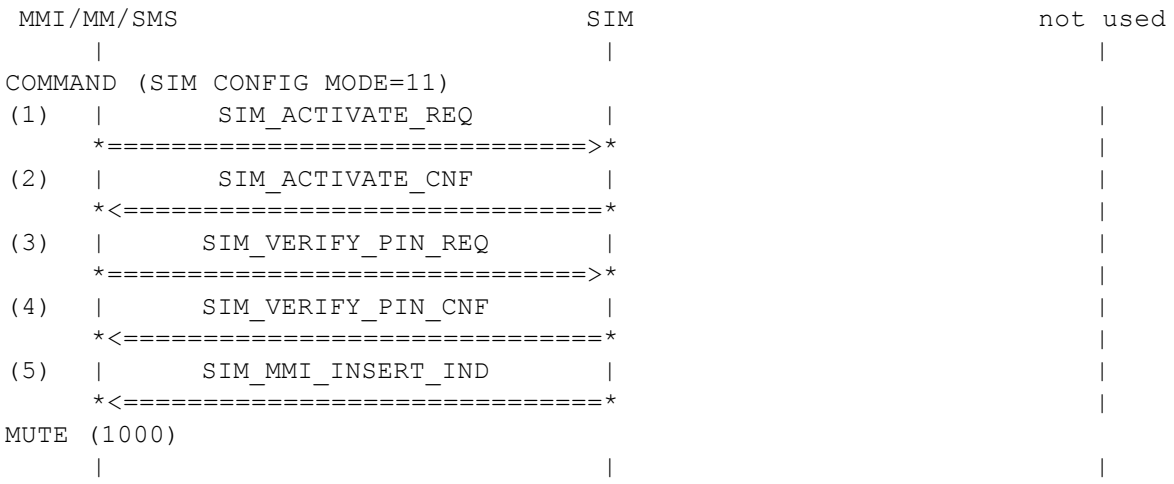
func	SIM_NO_OPERATION
sim_serv	SIM_SERV_PHASE_2_FDN
imsi_field	NO_IMSI
pref_plmn	NOT_USED
phase	PHASE_2_SIM
access_acm	NOT_USED
access_acmmax	NOT_USED
access_puct	NOT_USED

History:	29.09.98	LE	Initial
	07-Mar-2000	FK	SIM_SMS_INSERT_IND extended
	16-May-2001	KST	SIM_MM_INSERT_IND deleted
			SIM_SMS_INSERT_IND deleted
	24-Sep-2002	FK	Adaption to Cause Concept

2.2.14 SIM012: Phase 2 SIM, IMSI+Loci invalidated, FDN disabled by SIM

Description: The SIM application is activated. The inserted SIM card is a phase 2 SIM with PIN entering. The IMSI and Location information field are invalidated. The mobile doesn´t support Call Control by SIM, but FDN. The SIM doesn´t support FDN. The result of the initialisation procedure is no operation.

Preamble: SIM000



Parametrization

Primitive	Parameter	Value
(1) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	MMI_PROFILE_FDN
	stk_pro_file	STK_NOT_SUPPORTED
(2) SIM_ACTIVATE_CNF		
	cause	SIM_CAUSE_PIN1_EXPECT
	pin_cnt	PIN_3_ATTEMPTS
	puk_cnt	PUK_10_ATTEMPTS
	pin2_cnt	NOT_USED
	puk2_cnt	NOT_USED
	ec_code	EC_CODES
	pref_lang	LP_CODES
	atr	DISPLAY_ONLY
(3) SIM_VERIFY_PIN_REQ		
	source	SRC_MMI
	pin	PIN_1_VALUE
	pin_id	PHASE_2_PIN_1

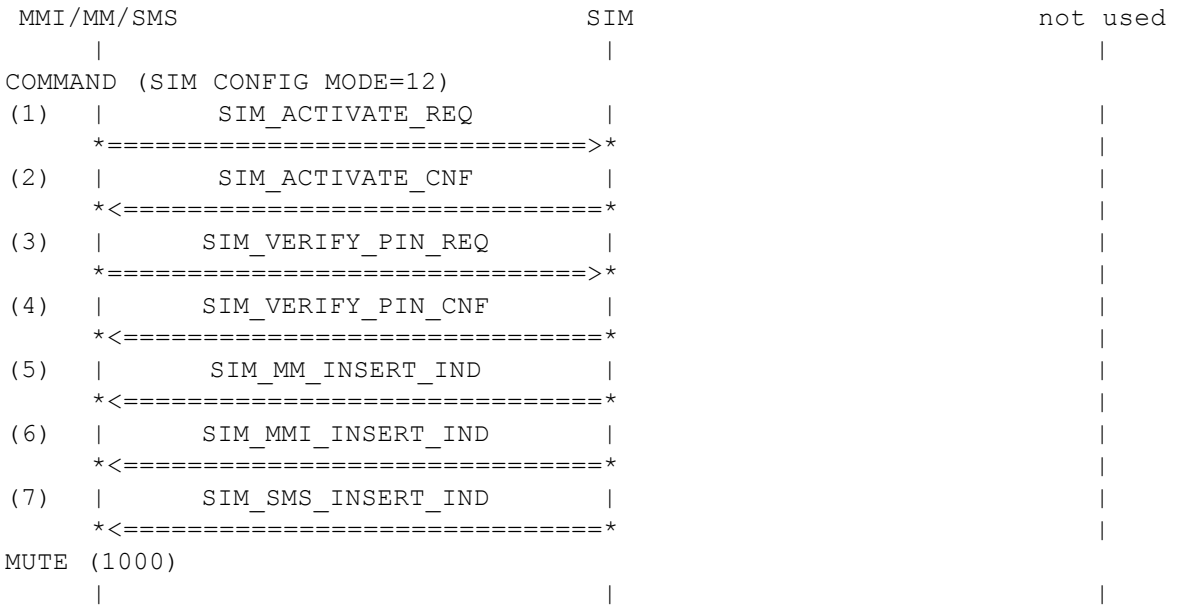
(4)	SIM_VERIFY_PIN_CNF		
		cause	SIM_NO_ERROR
		pin_id	PHASE_2_PIN_1
		pin_cnt	PIN_3_ATTEMPTS
		puk_cnt	PUK_10_ATTEMPTS
		pin2_cnt	NOT_USED
		puk2_cnt	NOT_USED
(5)	SIM_MMI_INSERT_IND		
		func	SIM_NO_OPERATION
		sim_serv	SIM_SERV_PHASE_2
		imsi_field	NO_IMSI
		pref_plmn	NOT_USED
		phase	PHASE_2_SIM
		access_acm	NOT_USED
		access_acmmax	NOT_USED
		access_puct	NOT_USED

History:	29.09.98	LE	Initial
	07-Mar-2000	FK	SIM_SMS_INSERT_IND extended
	16-May-01	KST	SIM_MM_INSERT_IND deleted
			SIM_SMS_INSERT_IND deleted
	25-Sep-2002	FK	Adaption to Cause Concept

2.2.15 SIM013: Phase 2 SIM, IMSI+Loci invalidated, FDN support by ME & SIM

Description: The SIM application is activated. The inserted SIM card is a phase 2 SIM with PIN entering. The IMSI and Location information field are invalidated. The mobile doesn´t support Call Control by SIM, but FDN. The result of the initialisation procedure is FDN enabled.

Preamble: SIM000



Parametrization

	Primitive	Parameter	Value
(1)	SIM_ACTIVATE_REQ		
		proc	SIM_INITIALISATION
		mmi_pro_file	MMI_PROFILE_FDN
		stk_pro_file	STK_NOT_SUPPORTED

(2) SIM_ACTIVATE_CNF

cause	SIM_CAUSE_PIN1_EXPECT
pin_cnt	PIN_3_ATTEMPTS
puk_cnt	PUK_10_ATTEMPTS
pin2_cnt	NOT_USED
puk2_cnt	NOT_USED
ec_code	EC_CODES
pref_lang	LP_CODES
atr	DISPLAY_ONLY

(3) SIM_VERIFY_PIN_REQ

source	SRC_MMI
pin	PIN_1_VALUE
pin_id	PHASE_2_PIN_1

(4) SIM_VERIFY_PIN_CNF

cause	SIM_NO_ERROR
pin_id	PHASE_2_PIN_1
pin_cnt	PIN_3_ATTEMPTS
puk_cnt	PUK_10_ATTEMPTS
pin2_cnt	NOT_USED
puk2_cnt	NOT_USED

(5) SIM_MM_INSERT_IND

op_mode	OP_TA_SPECIAL
imsi_field	IMSI
loc_info	LOC_INFO
acc_ctrl	ACC_CTRL
bcch_inf	BCCH_INFO
kc_n	KC_N
pref_plmn	PREF_PLMN
forb_plmn	FORB_PLMN
phase	PHASE_2_SIM
hplmn	HPLMN_1

(6) SIM_MMI_INSERT_IND

func	SIM_FDN_ENABLED
sim_serv	SIM_SERV_PHASE_2_FDN
imsi_field	IMSI
pref_plmn	PREF_PLMN
phase	PHASE_2_SIM
access_acm	NOT_USED
access_acmmax	NOT_USED
access_puct	NOT_USED

(7) SIM_SMS_INSERT_IND

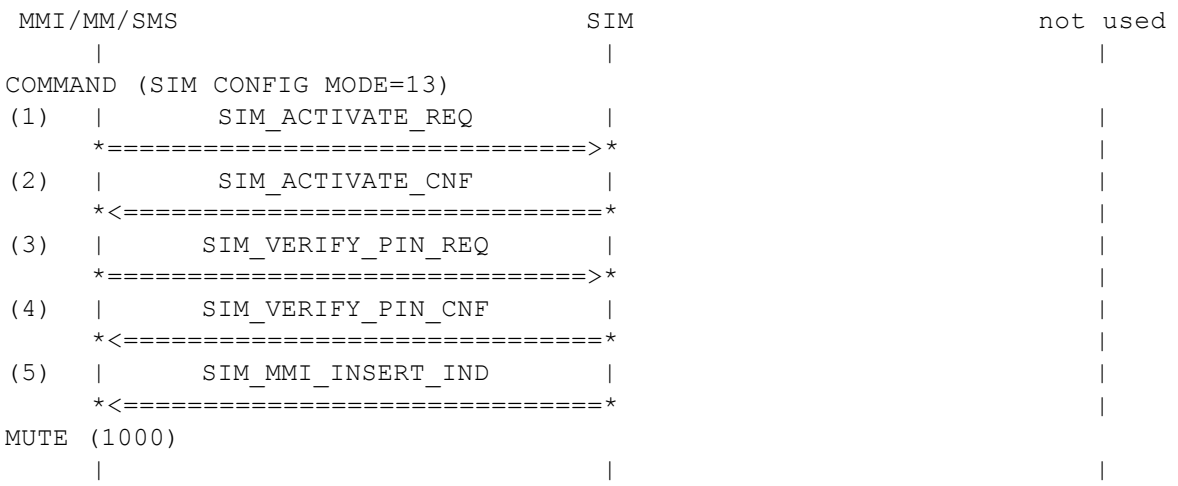
phase	PHASE_2_SIM
tp_mr	TP_MR_1
mem_cap_avail	MEM_IS_AVAILABLE
download_sms	DOWNLOAD_SMS_NO
smsr_mem_cap	SIM_SMSR_DISABLE

History:			
	29.09.98	LE	Initial
	07-Mar-2000	FK	SIM_SMS_INSERT_IND extended
	25-Apr-2001	FK	parameters of SIM_MMI_INSERT_IND adapted
	25-Sep-2002	FK	Adaption to Cause Concept

2.2.16 SIM014: Phase 2 SIM, IMSI+Loci rehabilitation failed, FDN support by ME & SIM

Description: The SIM application is activated. The inserted SIM card is a phase 2 SIM with PIN entering. The IMSI and Location information field are invalidated. The mobile doesn´t support Call Control by SIM, but FDN. The result of the initialisation procedure is no operation, because the rehabilitation of IMSI and Location Information fails.

Preamble: SIM000



Parametrization

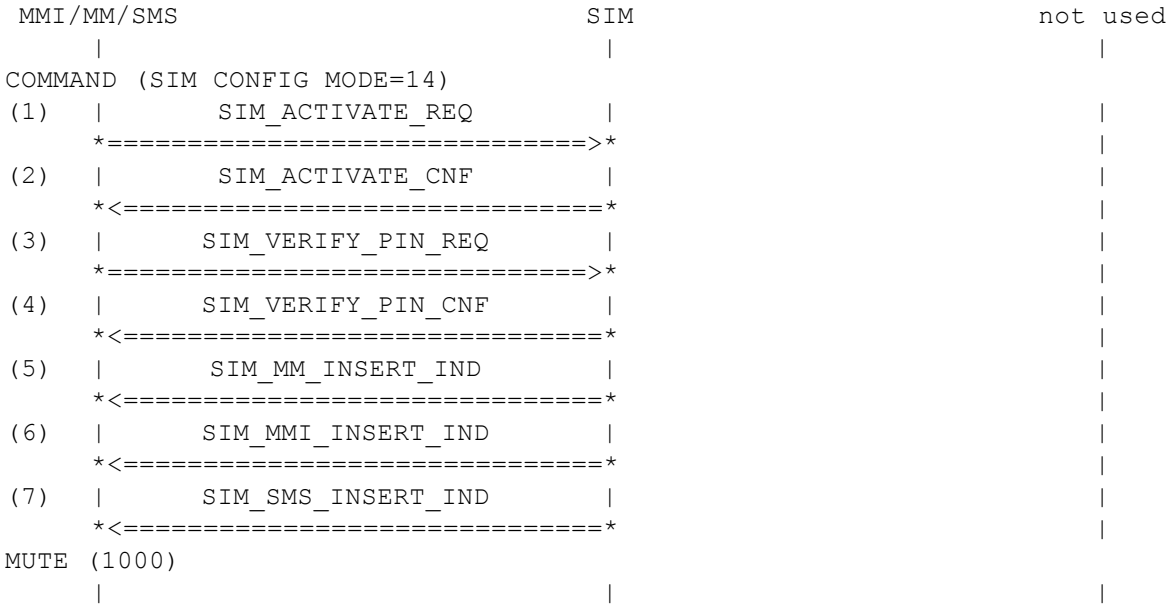
Primitive	Parameter	Value
(1) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	MMI_PROFILE_FDN
	stk_pro_file	STK_NOT_SUPPORTED
(2) SIM_ACTIVATE_CNF		
	cause	SIM_CAUSE_PIN1_EXPECT
	pin_cnt	PIN_3_ATTEMPTS
	puk_cnt	PUK_10_ATTEMPTS
	pin2_cnt	NOT_USED
	puk2_cnt	NOT_USED
	ec_code	EC_CODES
	pref_lang	LP_CODES
	atr	DISPLAY_ONLY
(3) SIM_VERIFY_PIN_REQ		
	source	SRC_MMI
	pin	PIN_1_VALUE
	pin_id	PHASE_2_PIN_1
(4) SIM_VERIFY_PIN_CNF		
	cause	SIM_NO_ERROR
	pin_id	PHASE_2_PIN_1
	pin_cnt	PIN_3_ATTEMPTS
	puk_cnt	PUK_10_ATTEMPTS
	pin2_cnt	NOT_USED
	puk2_cnt	NOT_USED
(5) SIM_MMI_INSERT_IND		
	func	SIM_NO_OPERATION
	sim_serv	SIM_SERV_PHASE_2_FDN
	imsi_field	NO_IMSI
	pref_plmn	NOT_USED
	phase	PHASE_2_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED

History:			
	29.09.98	LE	Initial
	07-Mar-2000	FK	SIM_SMS_INSERT_IND extended
	16-May-2001	KST	SIM_MM_INSERT_IND deleted SIM_SMS_INSERT_IND deleted
	25-Sep-2002	FK	Adaption to Cause Concept

2.2.17 SIM015: Phase 2+ SIM, IMSI+Loci inval., FDN/no BDN support by ME & SIM

Description: The SIM application is activated. The inserted SIM card is a phase 2+ SIM with PIN entering. The IMSI and Location information field are invalidated. The mobile and the SIM support Call Control by SIM and FDN, but no BDN. The result of the initialisation procedure is FDN enabled.

Preamble: SIM000



Parametrization

Primitive	Parameter	Value
(1) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	MMI_PROFILE_FDN
	stk_pro_file	STK_CC
(2) SIM_ACTIVATE_CNF		
	cause	SIM_CAUSE_PIN1_EXPECT
	pin_cnt	PIN_3_ATTEMPTS
	puk_cnt	PUK_10_ATTEMPTS
	pin2_cnt	NOT_USED
	puk2_cnt	NOT_USED
	ec_code	EC_CODES
	pref_lang	LP_CODES
	atr	DISPLAY_ONLY
(3) SIM_VERIFY_PIN_REQ		
	source	SRC_MMI
	pin	PIN_1_VALUE
	pin_id	PHASE_2_PIN_1
(4) SIM_VERIFY_PIN_CNF		
	cause	SIM_NO_ERROR
	pin_id	PHASE_2_PIN_1
	pin_cnt	PIN_3_ATTEMPTS
	puk_cnt	PUK_10_ATTEMPTS
	pin2_cnt	NOT_USED
	puk2_cnt	NOT_USED

(5) SIM_MM_INSERT_IND

op_mode	OP_TA_SPECIAL
imsi_field	IMSI
loc_info	LOC_INFO
acc_ctrl	ACC_CTRL
bcch_inf	BCCH_INFO
kc_n	KC_N
pref_plmn	PREF_PLMN
forb_plmn	FORB_PLMN
phase	PHASE_2_PLUS_SIM
hplmn	HPLMN_1

(6) SIM_MMI_INSERT_IND

func	SIM_FDN_ENABLED
sim_serv	SIM_SERV_PHASE_2_FDN
imsi_field	IMSI
pref_plmn	PREF_PLMN
phase	PHASE_2_PLUS_SIM
access_acm	NOT_USED
access_acmmax	NOT_USED
access_puct	NOT_USED

(7) SIM_SMS_INSERT_IND

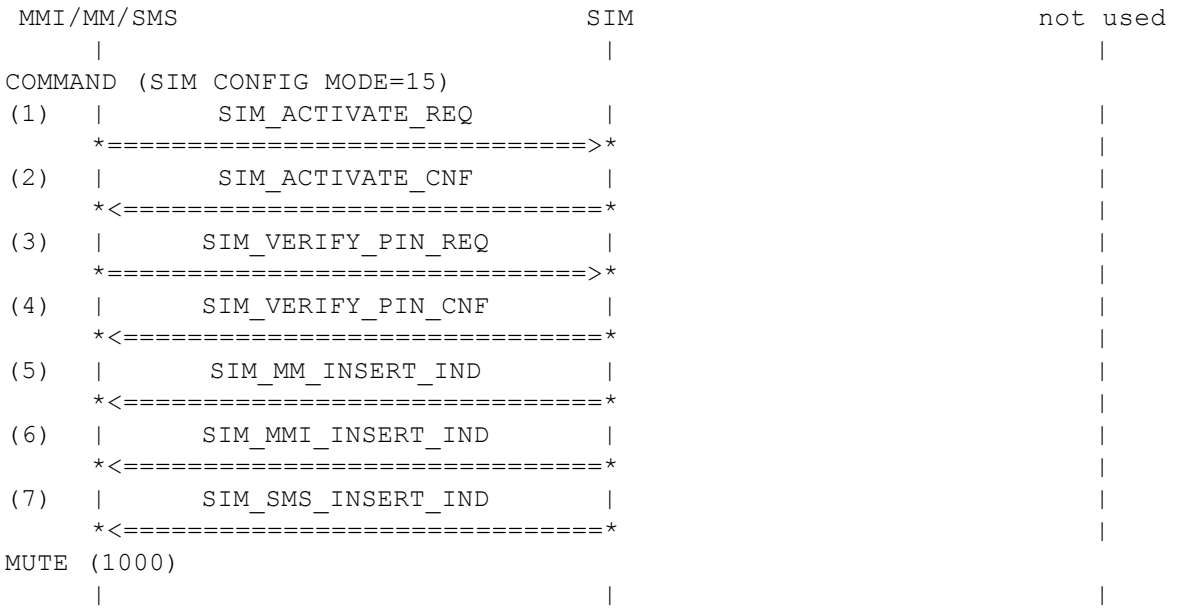
phase	PHASE_2_PLUS_SIM
tp_mr	TP_MR_1
mem_cap_avail	MEM_IS_AVAILABLE
download_sms	DOWNLOAD_SMS_NO
smsr_mem_cap	SIM_SMSR_DISABLE

History:			
	29.09.98	LE	Initial
	07-Mar-2000	FK	SIM_SMS_INSERT_IND extended
	25-Sep-2002	FK	Adaption to Cause Concept

2.2.18 SIM016: Phase 2+ SIM, IMSI+Loci inval., FDN/BDN support by ME & SIM

Description: The SIM application is activated. The inserted SIM card is a phase 2+ SIM with PIN entering. The IMSI and Location information field are invalidated. The mobile and the SIM support Call Control by SIM, FDN and BDN. The result of the initialisation procedure is FDN/BDN enabled.

Preamble: SIM000



Parametrization

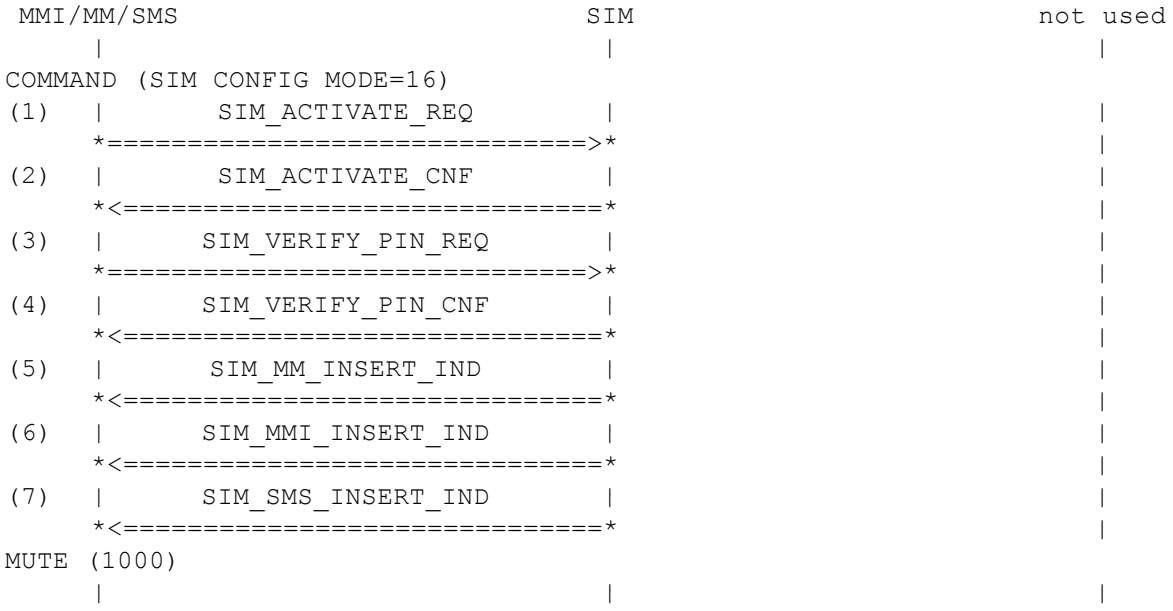
Primitive	Parameter	Value
(1) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	MMI_PROFILE_FDN_BDN
	stk_pro_file	STK_CC
(2) SIM_ACTIVATE_CNF		
	cause	SIM_CAUSE_PIN1_EXPECT
	pin_cnt	PIN_3_ATTEMPTS
	puk_cnt	PUK_10_ATTEMPTS
	pin2_cnt	NOT_USED
	puk2_cnt	NOT_USED
	ec_code	EC_CODES
	pref_lang	LP_CODES
	atr	DISPLAY_ONLY
(3) SIM_VERIFY_PIN_REQ		
	source	SRC_MMI
	pin	PIN_1_VALUE
	pin_id	PHASE_2_PIN_1
(4) SIM_VERIFY_PIN_CNF		
	cause	SIM_NO_ERROR
	pin_id	PHASE_2_PIN_1
	pin_cnt	PIN_3_ATTEMPTS
	puk_cnt	PUK_10_ATTEMPTS
	pin2_cnt	NOT_USED
	puk2_cnt	NOT_USED
(5) SIM_MM_INSERT_IND		
	op_mode	OP_TA_SPECIAL
	imsi_field	IMSI
	loc_info	LOC_INFO
	acc_ctrl	ACC_CTRL
	bcch_inf	BCCH_INFO
	kc_n	KC_N
	pref_plmn	PREF_PLMN
	forb_plmn	FORB_PLMN
	phase	PHASE_2_PLUS_SIM
	hplmn	HPLMN_1
(6) SIM_MMI_INSERT_IND		
	func	SIM_FDN_BDN_ENABLED
	sim_serv	SIM_SERV_PHASE_2_FDN_BDN
	imsi_field	IMSI
	pref_plmn	PREF_PLMN
	phase	PHASE_2_PLUS_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED
(7) SIM_SMS_INSERT_IND		
	phase	PHASE_2_PLUS_SIM
	tp_mr	TP_MR_1
	mem_cap_avail	MEM_IS_AVAILABLE
	download_sms	DOWNLOAD_SMS_NO
	smsr_mem_cap	SIM_SMSR_DISABLE

History:	29.09.98	LE	Initial
	07-Mar-2000	FK	SIM_SMS_INSERT_IND extended
	25-Sep-2002	FK	Adaption to Cause Concept

2.2.19 SIM017: Phase 2+ SIM, IMSI+Loci inval., ADN/no BDN support by ME & SIM

Description: The SIM application is activated. The inserted SIM card is a phase 2+ SIM with PIN entering. The IMSI and Location information field are invalidated. The mobile and the SIM support Call Control by SIM and ADN, but no BDN. The result of the initialisation procedure is ADN enabled.

Preamble: SIM000



Parametrization

Primitive	Parameter	Value
(1) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	MMI_PROFILE_ADN
	stk_pro_file	STK_CC
(2) SIM_ACTIVATE_CNF		
	cause	SIM_CAUSE_PIN1_EXPECT
	pin_cnt	PIN_3_ATTEMPTS
	puk_cnt	PUK_10_ATTEMPTS
	pin2_cnt	NOT_USED
	puk2_cnt	NOT_USED
	ec_code	EC_CODES
	pref_lang	LP_CODES
	atr	DISPLAY_ONLY
(3) SIM_VERIFY_PIN_REQ		
	source	SRC_MMI
	pin	PIN_1_VALUE
	pin_id	PHASE_2_PIN_1
(4) SIM_VERIFY_PIN_CNF		
	cause	SIM_NO_ERROR
	pin_id	PHASE_2_PIN_1
	pin_cnt	PIN_3_ATTEMPTS
	puk_cnt	PUK_10_ATTEMPTS
	pin2_cnt	NOT_USED
	puk2_cnt	NOT_USED

(5) SIM_MM_INSERT_IND

op_mode	OP_TA_SPECIAL
imsi_field	IMSI
loc_info	LOC_INFO
acc_ctrl	ACC_CTRL
bcch_inf	BCCH_INFO
kc_n	KC_N
pref_plmn	PREF_PLMN
forb_plmn	FORB_PLMN
phase	PHASE_2_PLUS_SIM
hplmn	HPLMN_1

(6) SIM_MMI_INSERT_IND

func	SIM_ADN_ENABLED
sim_serv	SIM_SERV_PHASE_2
imsi_field	IMSI
pref_plmn	PREF_PLMN
phase	PHASE_2_PLUS_SIM
access_acm	NOT_USED
access_acmmax	NOT_USED
access_puct	NOT_USED

(7) SIM_SMS_INSERT_IND

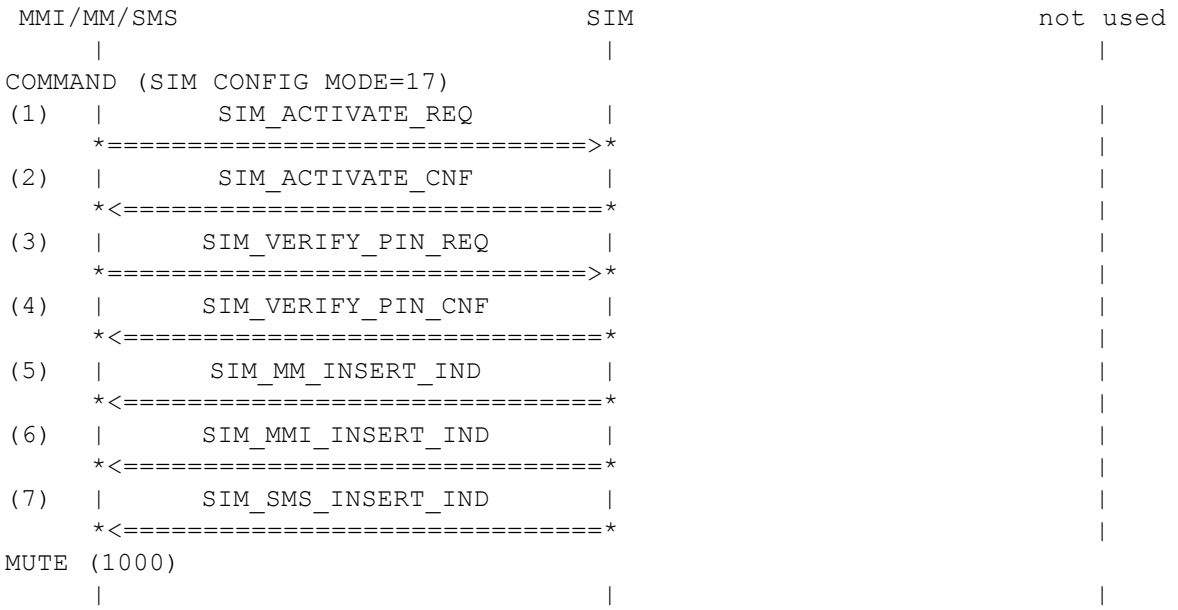
phase	PHASE_2_PLUS_SIM
tp_mr	TP_MR_1
mem_cap_avail	MEM_IS_AVAILABLE
download_sms	DOWNLOAD_SMS_NO
smsr_mem_cap	SIM_SMSR_DISABLE

History:			
	29.09.98	LE	Initial
	07-Mar-2000	FK	SIM_SMS_INSERT_IND extended
	25-Sep-2002	FK	Adaption to Cause Concept

2.2.20 SIM018: Phase 2+ SIM, IMSI+Loci inval., ADN/BDN support by ME & SIM

Description: The SIM application is activated. The inserted SIM card is a phase 2+ SIM with PIN entering. The IMSI and Location information field are invalidated. The mobile and the SIM support Call Control by SIM, ADN and BDN. The result of the initialisation procedure is ADN/BDN enabled.

Preamble: SIM000



Parametrization

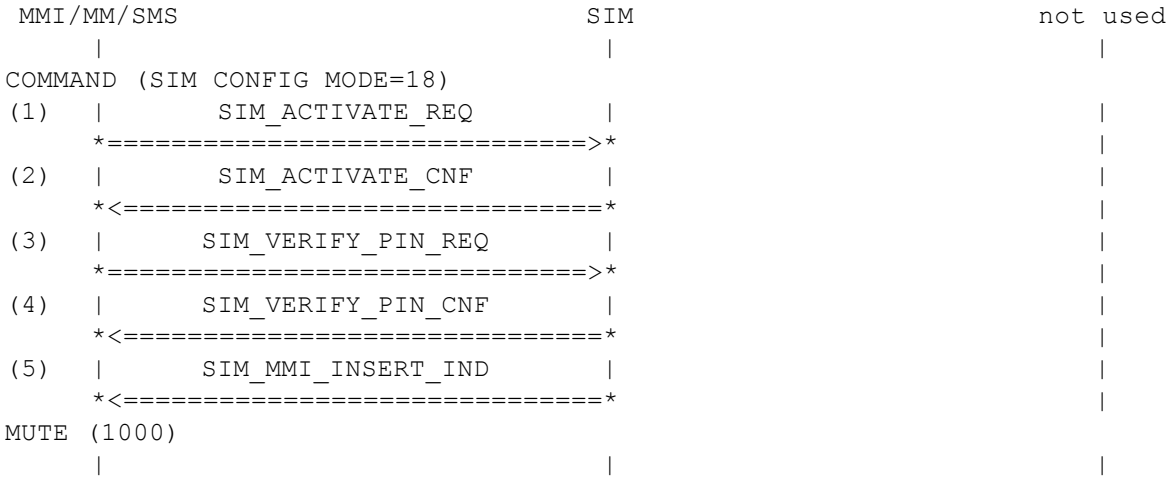
Primitive	Parameter	Value
(1) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	MMI_PROFILE_ADN_BDN
	stk_pro_file	STK_CC
(2) SIM_ACTIVATE_CNF		
	cause	SIM_CAUSE_PIN1_EXPECT
	pin_cnt	PIN_3_ATTEMPTS
	puk_cnt	PUK_10_ATTEMPTS
	pin2_cnt	NOT_USED
	puk2_cnt	NOT_USED
	ec_code	EC_CODES
	pref_lang	LP_CODES
	atr	DISPLAY_ONLY
(3) SIM_VERIFY_PIN_REQ		
	source	SRC_MMI
	pin	PIN_1_VALUE
	pin_id	PHASE_2_PIN_1
(4) SIM_VERIFY_PIN_CNF		
	cause	SIM_NO_ERROR
	pin_id	PHASE_2_PIN_1
	pin_cnt	PIN_3_ATTEMPTS
	puk_cnt	PUK_10_ATTEMPTS
	pin2_cnt	NOT_USED
	puk2_cnt	NOT_USED
(5) SIM_MM_INSERT_IND		
	op_mode	OP_TA_SPECIAL
	imsi_field	IMSI
	loc_info	LOC_INFO
	acc_ctrl	ACC_CTRL
	bcch_inf	BCCH_INFO
	kc_n	KC_N
	pref_plmn	PREF_PLMN
	forb_plmn	FORB_PLMN
	phase	PHASE_2_PLUS_SIM
	hplmn	HPLMN_1
(6) SIM_MMI_INSERT_IND		
	func	SIM_ADN_BDN_ENABLED
	sim_serv	SIM_SERV_PHASE_2_ADN_BDN
	imsi_field	IMSI
	pref_plmn	PREF_PLMN
	phase	PHASE_2_PLUS_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED
(7) SIM_SMS_INSERT_IND		
	phase	PHASE_2_PLUS_SIM
	tp_mr	TP_MR_1
	mem_cap_avail	MEM_IS_AVAILABLE
	download_sms	DOWNLOAD_SMS_NO
	smsr_mem_cap	SIM_SMSR_DISABLE

History:	29.09.98	LE	Initial
	07-Mar-2000	FK	SIM_SMS_INSERT_IND extended
	25-Sep-2002	FK	Adaption to Cause Concept

2.2.21 SIM019: Phase 2+ SIM, IMSI+Loci inval., FDN by SIM, no FDN by ME

Description: The SIM application is activated. The inserted SIM card is a phase 2+ SIM with PIN entering. The IMSI and Location information field are invalidated. The mobile supports Call Control by SIM, but no FDN. The SIM supports FDN. The result of the initialisation procedure is no operation.

Preamble: SIM000



Parametrization

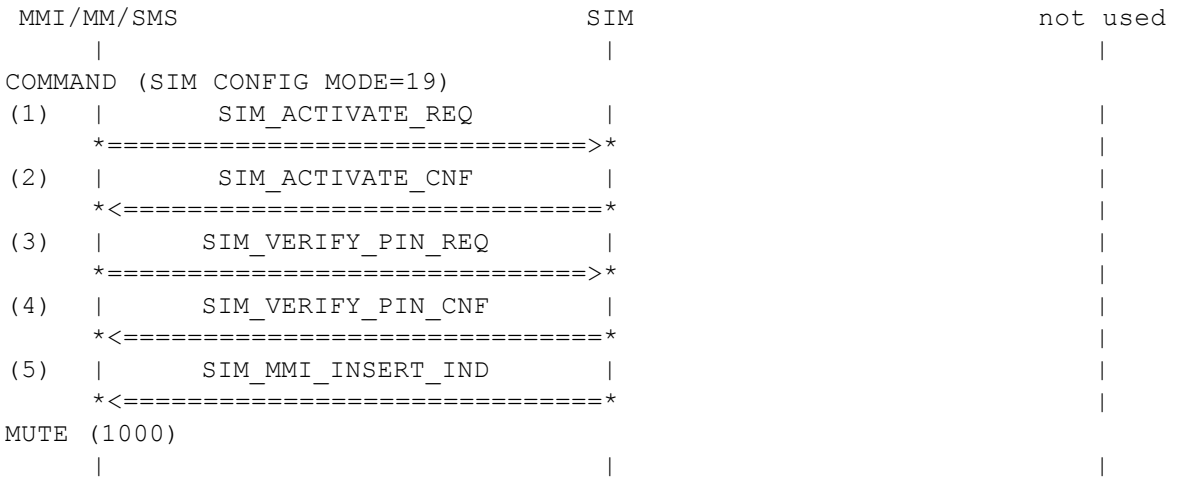
Primitive	Parameter	Value
(1) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	MMI_PROFILE_ADN
	stk_pro_file	STK_CC
(2) SIM_ACTIVATE_CNF		
	cause	SIM_CAUSE_PIN1_EXPECT
	pin_cnt	PIN_3_ATTEMPTS
	puk_cnt	PUK_10_ATTEMPTS
	pin2_cnt	NOT_USED
	puk2_cnt	NOT_USED
	ec_code	EC_CODES
	pref_lang	LP_CODES
	atr	DISPLAY_ONLY
(3) SIM_VERIFY_PIN_REQ		
	source	SRC_MMI
	pin	PIN_1_VALUE
	pin_id	PHASE_2_PIN_1
(4) SIM_VERIFY_PIN_CNF		
	cause	SIM_NO_ERROR
	pin_id	PHASE_2_PIN_1
	pin_cnt	PIN_3_ATTEMPTS
	puk_cnt	PUK_10_ATTEMPTS
	pin2_cnt	NOT_USED
	puk2_cnt	NOT_USED
(5) SIM_MMI_INSERT_IND		
	func	SIM_NO_OPERATION
	sim_serv	SIM_SERV_PHASE_2_FDN
	imsi_field	NO_IMSI
	pref_plmn	NOT_USED
	phase	PHASE_2_PLUS_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED

History:	29.09.98	LE	Initial
	07-Mar-2000	FK	SIM_SMS_INSERT_IND extended
	16-May-01	KST	SIM_MM_INSERT_IND deleted
			SIM_SMS_INSERT_IND deleted
	25-Sep-2002	FK	Adaption to Cause Concept

2.2.22 SIM020: Phase 2+ SIM, IMSI+Loci inval., FDN/BDN by SIM, no FDN by ME

Description: The SIM application is activated. The inserted SIM card is a phase 2+ SIM with PIN entering. The IMSI and Location information field are invalidated. The mobile supports Call Control by SIM, but no FDN. The SIM supports FDN and BDN. The result of the initialisation procedure is no operation.

Preamble: SIM000



Parametrization

Primitive	Parameter	Value
(1) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	MMI_PROFILE_ADN_BDN
	stk_pro_file	STK_CC
(2) SIM_ACTIVATE_CNF		
	cause	SIM_CAUSE_PIN1_EXPECT
	pin_cnt	PIN_3_ATTEMPTS
	puk_cnt	PUK_10_ATTEMPTS
	pin2_cnt	NOT_USED
	puk2_cnt	NOT_USED
	ec_code	EC_CODES
	pref_lang	LP_CODES
	atr	DISPLAY_ONLY
(3) SIM_VERIFY_PIN_REQ		
	source	SRC_MMI
	pin	PIN_1_VALUE
	pin_id	PHASE_2_PIN_1
(4) SIM_VERIFY_PIN_CNF		
	cause	SIM_NO_ERROR
	pin_id	PHASE_2_PIN_1
	pin_cnt	PIN_3_ATTEMPTS
	puk_cnt	PUK_10_ATTEMPTS
	pin2_cnt	NOT_USED
	puk2_cnt	NOT_USED

(5) SIM_MMI_INSERT_IND

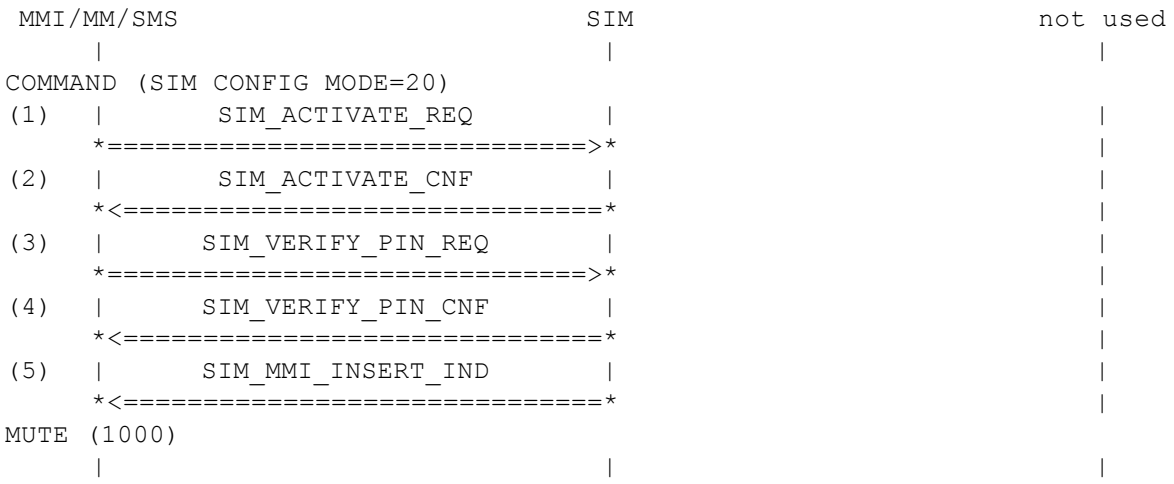
func	SIM_NO_OPERATION
sim_serv	SIM_SERV_PHASE_2_FDN_BDN
imsi_field	NO_IMSI
pref_plmn	NOT_USED
phase	PHASE_2_PLUS_SIM
access_acm	NOT_USED
access_acmmax	NOT_USED
access_puct	NOT_USED

History:	29.09.98	LE	Initial
	07-Mar-2000	FK	SIM_SMS_INSERT_IND extended
	16-May-01	KST	SIM_MM_INSERT_IND deleted
			SIM_SMS_INSERT_IND deleted
	25-Sep-2002	FK	Adaption to Cause Concept

2.2.23 SIM021: Phase 2+ SIM, IMSI inval., FDN/BDN by SIM, BDN but no FDN by ME

Description: The SIM application is activated. The inserted SIM card is a phase 2+ SIM with PIN entering. The IMSI and Location information field are invalidated. The mobile supports Call Control by SIM and BDN but no FDN. The SIM supports FDN and BDN. The result of the initialisation procedure is no operation.

Preamble: SIM000



Parametrization

Primitive	Parameter	Value
(1) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	MMI_PROFILE_ADN_BDN
	stk_pro_file	STK_CC
(2) SIM_ACTIVATE_CNF		
	cause	SIM_CAUSE_PIN1_EXPECT
	pin_cnt	PIN_3_ATTEMPTS
	puk_cnt	PUK_10_ATTEMPTS
	pin2_cnt	NOT_USED
	puk2_cnt	NOT_USED
	ec_code	EC_CODES
	pref_lang	LP_CODES
	atr	DISPLAY_ONLY
(3) SIM_VERIFY_PIN_REQ		
	source	SRC_MMI
	pin	PIN_1_VALUE
	pin_id	PHASE_2_PIN_1

(4) SIM_VERIFY_PIN_CNF

cause	SIM_NO_ERROR
pin_id	PHASE_2_PIN_1
pin_cnt	PIN_3_ATTEMPTS
puk_cnt	PUK_10_ATTEMPTS
pin2_cnt	NOT_USED
puk2_cnt	NOT_USED

(5) SIM_MMI_INSERT_IND

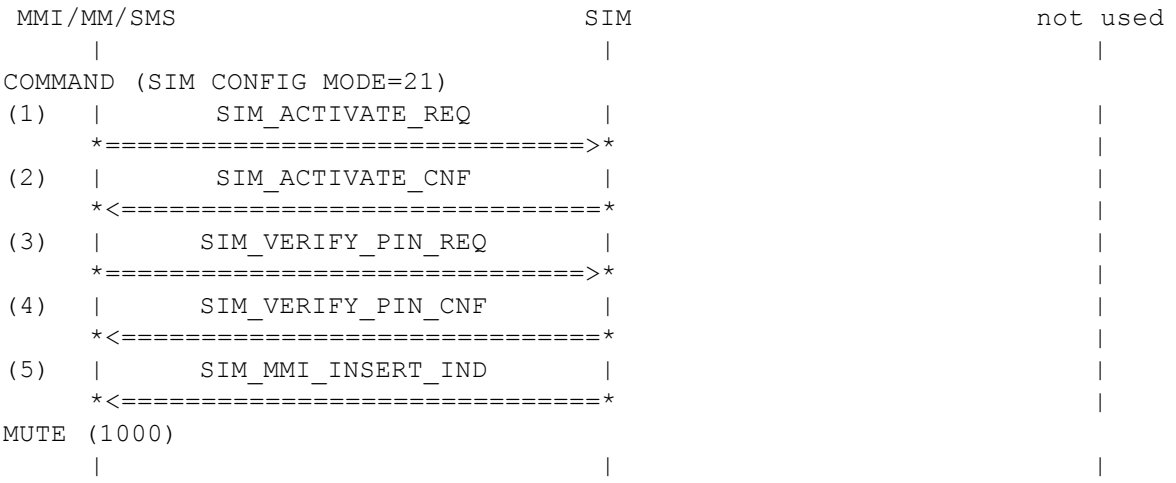
func	SIM_NO_OPERATION
sim_serv	SIM_SERV_PHASE_2_FDN_BDN
imsi_field	NO_IMSI
pref_plmn	NOT_USED
phase	PHASE_2_PLUS_SIM
access_acm	NOT_USED
access_acmmax	NOT_USED
access_puct	NOT_USED

History:			
	29.09.98	LE	Initial
	07-Mar-2000	FK	SIM_SMS_INSERT_IND extended
	16-May-01	KST	SIM_MM_INSERT_IND deleted
			SIM_SMS_INSERT_IND deleted
	25-Sep-2002	FK	Adaption to Cause Concept

2.2.24 SIM022: Phase 2+ SIM, IMSI+Loci inval., FDN/BDN by SIM, FDN no BDN by ME

Description: The SIM application is activated. The inserted SIM card is a phase 2+ SIM with PIN entering. The IMSI and Location information field are invalidated. The mobile supports Call Control by SIM and FDN but no BDN. The SIM supports FDN and BDN. The result of the initialisation procedure is no operation.

Preamble: SIM000



Parametrization

Primitive	Parameter	Value
(1) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	MMI_PROFILE_FDN
	stk_pro_file	STK_CC

(2) SIM_ACTIVATE_CNF

cause	SIM_CAUSE_PIN1_EXPECT
pin_cnt	PIN_3_ATTEMPTS
puk_cnt	PUK_10_ATTEMPTS
pin2_cnt	NOT_USED
puk2_cnt	NOT_USED
ec_code	EC_CODES
pref_lang	LP_CODES
atr	DISPLAY_ONLY

(3) SIM_VERIFY_PIN_REQ

source	SRC_MMI
pin	PIN_1_VALUE
pin_id	PHASE_2_PIN_1

(4) SIM_VERIFY_PIN_CNF

cause	SIM_NO_ERROR
pin_id	PHASE_2_PIN_1
pin_cnt	PIN_3_ATTEMPTS
puk_cnt	PUK_10_ATTEMPTS
pin2_cnt	NOT_USED
puk2_cnt	NOT_USED

(5) SIM_MMI_INSERT_IND

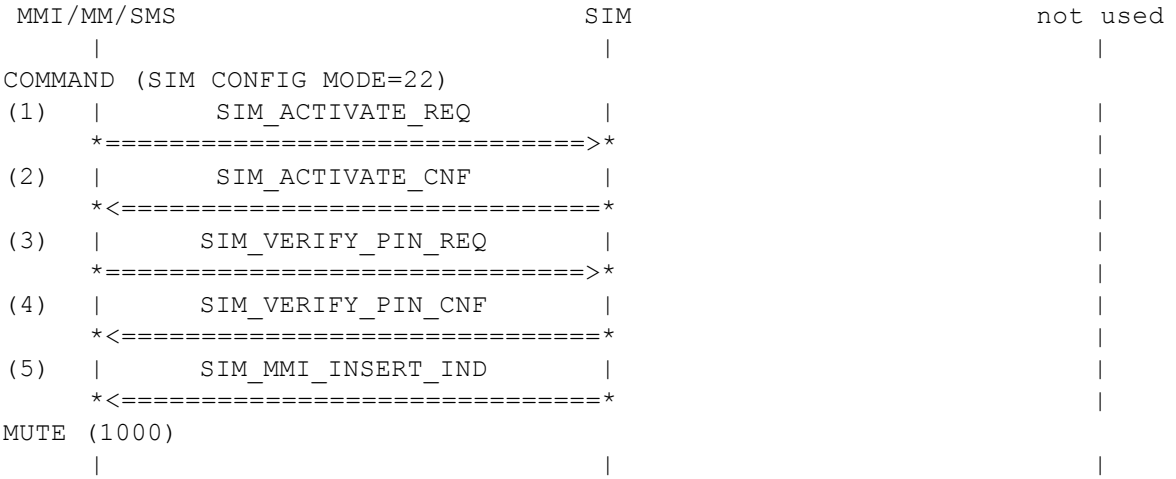
func	SIM_NO_OPERATION
sim_serv	SIM_SERV_PHASE_2_FDN_BDN
imsi_field	NO_IMSI
pref_plmn	NOT_USED
phase	PHASE_2_PLUS_SIM
access_acm	NOT_USED
access_acmmax	NOT_USED
access_puct	NOT_USED

History:			
	29.09.98	LE	Initial
	07-Mar-2000	FK	SIM_SMS_INSERT_IND extended
	16-May-01	KST	SIM_MM_INSERT_IND deleted
			SIM_SMS_INSERT_IND deleted
	25-Sep-2002	FK	Adaption to Cause Concept

2.2.25 SIM023: Phase 2+ SIM, IMSI+Loci inval., rehabilitation failed

Description: The SIM application is activated. The inserted SIM card is a phase 2+ SIM with PIN entering. The IMSI and Location information field are invalidated. The mobile and the SIM support Call Control by SIM and FDN, but no BDN. The result of the initialisation procedure is no operation because the rehabilitation of IMSI and location information fails.

Preamble: SIM000



Parametrization

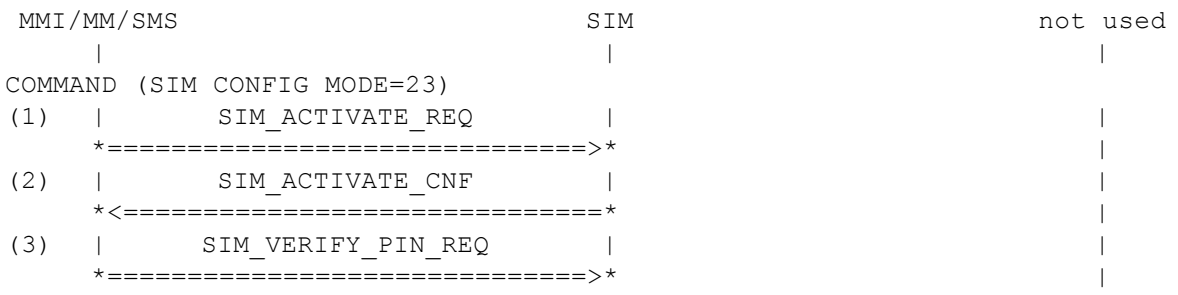
Primitive	Parameter	Value
(1) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	MMI_PROFILE_FDN
	stk_pro_file	STK_CC
(2) SIM_ACTIVATE_CNF		
	cause	SIM_CAUSE_PIN1_EXPECT
	pin_cnt	PIN_3_ATTEMPTS
	puk_cnt	PUK_10_ATTEMPTS
	pin2_cnt	NOT_USED
	puk2_cnt	NOT_USED
	ec_code	EC_CODES
	pref_lang	LP_CODES
	atr	DISPLAY_ONLY
(3) SIM_VERIFY_PIN_REQ		
	source	SRC_MMI
	pin	PIN_1_VALUE
	pin_id	PHASE_2_PIN_1
(4) SIM_VERIFY_PIN_CNF		
	cause	SIM_NO_ERROR
	pin_id	PHASE_2_PIN_1
	pin_cnt	PIN_3_ATTEMPTS
	puk_cnt	PUK_10_ATTEMPTS
	pin2_cnt	NOT_USED
	puk2_cnt	NOT_USED
(5) SIM_MMI_INSERT_IND		
	func	SIM_NO_OPERATION
	sim_serv	SIM_SERV_PHASE_2_FDN
	imsi_field	NO_IMSI
	pref_plmn	NOT_USED
	phase	PHASE_2_PLUS_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED

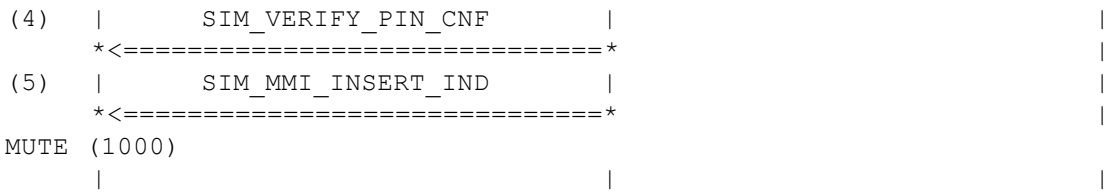
History:			
	29.09.98	LE	Initial
	07-Mar-2000	FK	SIM_SMS_INSERT_IND extended
	16-May-01	KST	SIM_MM_INSERT_IND deleted
			SIM_SMS_INSERT_IND deleted
	25-Sep-2002	FK	Adaption to Cause Concept

2.2.26 SIM024: Phase 2+ SIM, IMSI+Loci inval., rehabilitation failed

Description: The SIM application is activated. The inserted SIM card is a phase 2+ SIM with PIN entering. The IMSI and Location information field are invalidated. The mobile and the SIM support Call Control by SIM, FDN and BDN. The result of the initialisation procedure is no operation, because the rehabilitation of IMSI and location information fails.

Preamble: SIM000





Parametrization

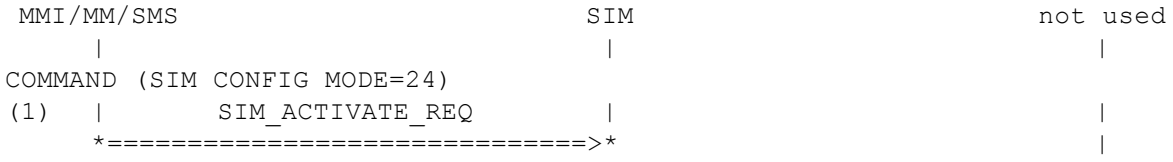
Primitive	Parameter	Value
(1) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	MMI_PROFILE_FDN_BDN
	stk_pro_file	STK_CC
(2) SIM_ACTIVATE_CNF		
	cause	SIM_CAUSE_PIN1_EXPECT
	pin_cnt	PIN_3_ATTEMPTS
	puk_cnt	PUK_10_ATTEMPTS
	pin2_cnt	NOT_USED
	puk2_cnt	NOT_USED
	ec_code	EC_CODES
	pref_lang	LP_CODES
	atr	DISPLAY_ONLY
(3) SIM_VERIFY_PIN_REQ		
	source	SRC_MMI
	pin	PIN_1_VALUE
	pin_id	PHASE_2_PIN_1
(4) SIM_VERIFY_PIN_CNF		
	cause	SIM_NO_ERROR
	pin_id	PHASE_2_PIN_1
	pin_cnt	PIN_3_ATTEMPTS
	puk_cnt	PUK_10_ATTEMPTS
	pin2_cnt	NOT_USED
	puk2_cnt	NOT_USED
(5) SIM_MMI_INSERT_IND		
	func	SIM_NO_OPERATION
	sim_serv	SIM_SERV_PHASE_2_FDN_BDN
	imsi_field	NO_IMSI
	pref_plmn	NOT_USED
	phase	PHASE_2_PLUS_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED

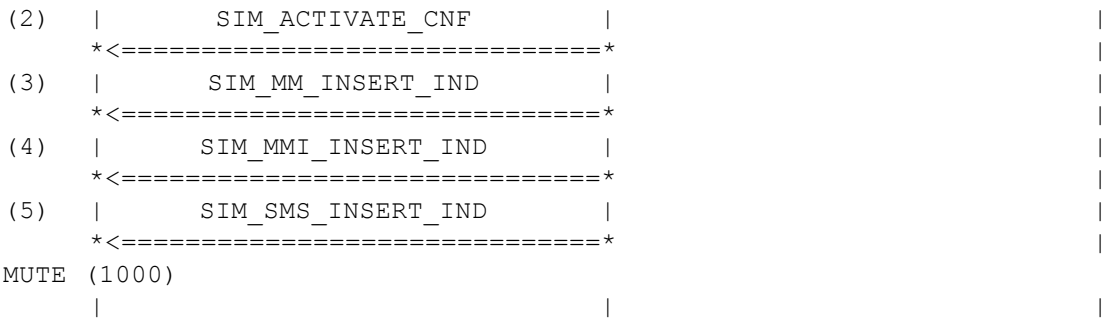
History:			
	29.09.98	LE	Initial
	07-Mar-2000	FK	SIM_SMS_INSERT_IND extended
	16-May-01	KST	SIM_MM_INSERT_IND deleted
			SIM_SMS_INSERT_IND deleted
	25-Sep-2002	FK	Adaption to Cause Concept

2.2.27 SIM025: Phase 2 SIM, no PIN entering

Description: The SIM application is activated. The inserted SIM card is a phase 2 SIM without PIN entering. MM, MMI and SMS are informed with the important parameters for the components. The SIM supports both ADN and FDN.

Preamble: SIM000





Parametrization

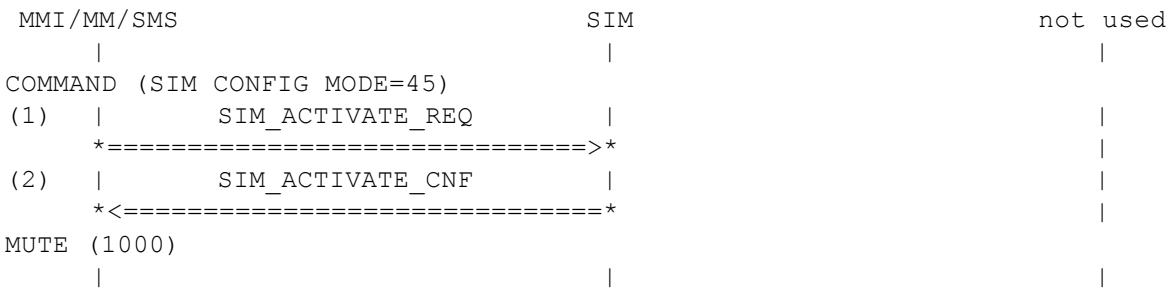
Primitive	Parameter	Value
(1) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	MMI_PROFILE
	stk_pro_file	STK_NOT_SUPPORTED
(2) SIM_ACTIVATE_CNF		
	cause	SIM_NO_ERROR
	pin_cnt	PIN_3_ATTEMPTS
	puk_cnt	PUK_10_ATTEMPTS
	pin2_cnt	NOT_USED
	puk2_cnt	NOT_USED
	ec_code	EC_CODES
	pref_lang	LP_CODES
	atr	DISPLAY_ONLY
(3) SIM_MM_INSERT_IND		
	op_mode	OP_TA_SPECIAL
	imsi_field	IMSI
	loc_info	LOC_INFO
	acc_ctrl	ACC_CTRL
	bcch_inf	BCCH_INFO
	kc_n	KC_N
	pref_plmn	PREF_PLMN
	forb_plmn	FORB_PLMN
	phase	PHASE_2_SIM
	hplmn	HPLMN_1
(4) SIM_MMI_INSERT_IND		
	func	SIM_ADN_ENABLED
	sim_serv	SIM_SERV_PHASE_2_BOTH
	imsi_field	IMSI
	pref_plmn	PREF_PLMN
	phase	PHASE_2_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED
(5) SIM_SMS_INSERT_IND		
	phase	PHASE_2_SIM
	tp_mr	TP_MR_1
	mem_cap_avail	MEM_IS_AVAILABLE
	download_sms	DOWNLOAD_SMS_NO
	smsr_mem_cap	SIM_SMSR_DISABLE

History:	29.09.98	LE	Initial
	07-Mar-2000	FK	SIM_SMS_INSERT_IND extended
	25-Sep-2002	FK	Adaption to Cause Concept

2.2.28 SIM039: Blocked SIM card inserted, no unblock attempts available

Description: The SIM application is activated. It is a blocked SIM card inserted. No further unblock attempts are available. The SIM card is invalid.

Preamble: SIM000



Parametrization

Primitive	Parameter	Value
(1) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	MMI_PROFILE
	stk_pro_file	STK_NOT_SUPPORTED
(2) SIM_ACTIVATE_CNF		
	cause	SIM_CAUSE_PUK1_BLOCKED
	pin_cnt	ZERO
	puk_cnt	ZERO
	pin2_cnt	NOT_USED
	puk2_cnt	NOT_USED
	ec_code	EC_CODES
	pref_lang	LP_CODES
	atr	DISPLAY_ONLY

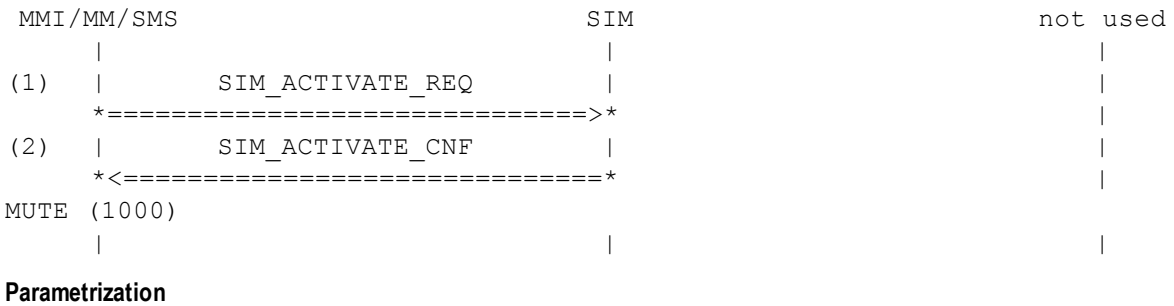
History:			
	28.09.98	LE	Initial
	25-Sep-2002	FK	Adaption to Cause Concept

2.3 Change between restricted and unrestricted operation

2.3.1 SIM026: ADN to FDN, successfull case

Description: The SIM application is activated with unrestricted operation. The SIM supports both unrestricted and restricted operation. The MMI requests the change to restricted operation. The procedure succeeds.

Preamble: SIM025



Parametrization

Primitive	Parameter	Value
(1) SIM_ACTIVATE_REQ		
	proc	SIM_FDN_ENABLE
	mmi_pro_file	MMI_PROFILE
	stk_pro_file	STK_NOT_SUPPORTED

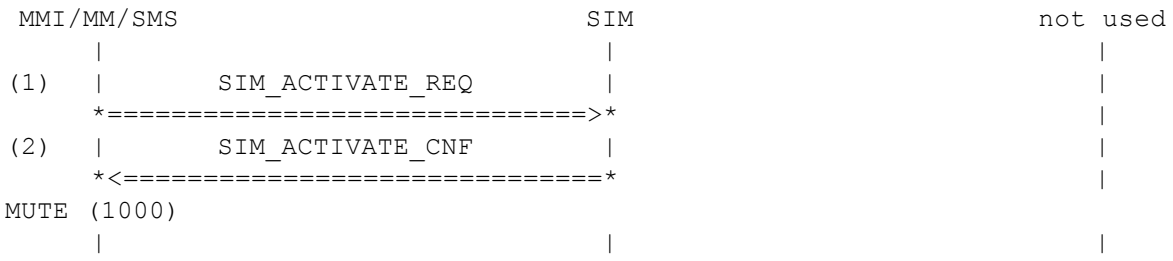
(2) SIM_ACTIVATE_CNF		
	cause	SIM_NO_ERROR
	pin_cnt	NOT_USED
	puk_cnt	NOT_USED
	pin2_cnt	NOT_USED
	puk2_cnt	NOT_USED
	ec_code	NOT_USED
	pref_lang	NOT_USED
	atr	DISPLAY_ONLY

History:	29.09.98	LE	Initial
	25-Sep-2002	FK	Adaption to Cause Concept

2.3.2 SIM027: ADN to FDN, already FDN

Description: The SIM application is activated with restricted operation. The SIM supports both unrestricted and restricted operation. The MMI requests the change to restricted operation. The procedure succeeds, because it is the old status.

Preamble: SIM013



Parametrization

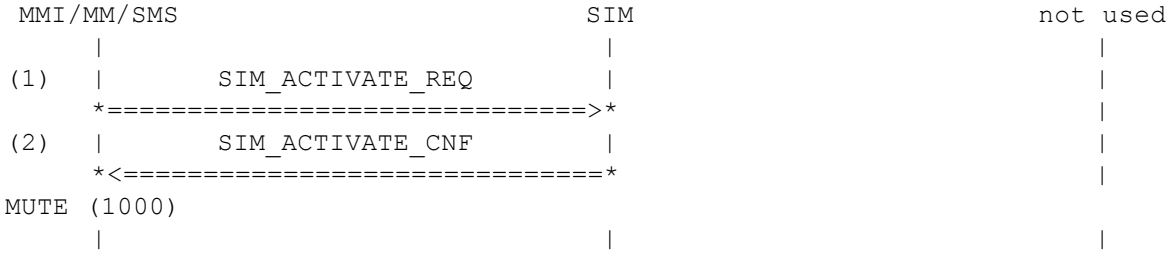
Primitive	Parameter	Value
(1) SIM_ACTIVATE_REQ		
	proc	SIM_FDN_ENABLE
	mmi_pro_file	MMI_PROFILE
	stk_pro_file	STK_NOT_SUPPORTED
(2) SIM_ACTIVATE_CNF		
	cause	SIM_NO_ERROR
	pin_cnt	NOT_USED
	puk_cnt	NOT_USED
	pin2_cnt	NOT_USED
	puk2_cnt	NOT_USED
	ec_code	NOT_USED
	pref_lang	NOT_USED
	atr	DISPLAY_ONLY

History:	29.09.98	LE	Initial
	25-Sep-2002	FK	Adaption to Cause Concept

2.3.3 SIM028: ADN to FDN, unsuccessfull case

Description: The SIM application is activated with unrestricted operation. The SIM supports only unrestricted operation. The MMI requests the change to restricted operation. The procedure fails.

Preamble: SIM007



Parametrization

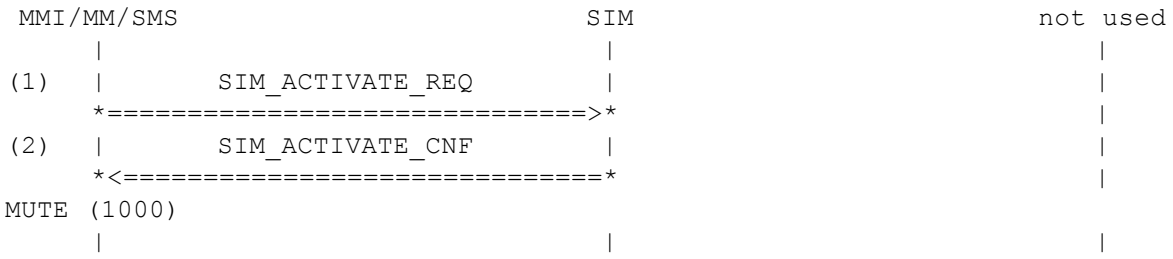
Primitive		Parameter	Value
(1)	SIM_ACTIVATE_REQ		
		proc	SIM_FDN_ENABLE
		mmi_pro_file	MMI_PROFILE
		stk_pro_file	STK_NOT_SUPPORTED
(2)	SIM_ACTIVATE_CNF		
		cause	SIM_CAUSE_ACCESS_PROHIBIT
		pin_cnt	NOT_USED
		puk_cnt	NOT_USED
		pin2_cnt	NOT_USED
		puk2_cnt	NOT_USED
		ec_code	NOT_USED
		pref_lang	NOT_USED
		atr	DISPLAY_ONLY

History:	29.09.98	LE	Initial
	25-Sep-2002	FK	Adaption to Cause Concept

2.3.4 SIM029: FDN to ADN, successfull case

Description: The SIM application is activated with restricted operation. The SIM supports both unrestricted and restricted operation. The MMI requests the change to unrestricted operation. The procedure succeeds.

Preamble: SIM026



Parametrization

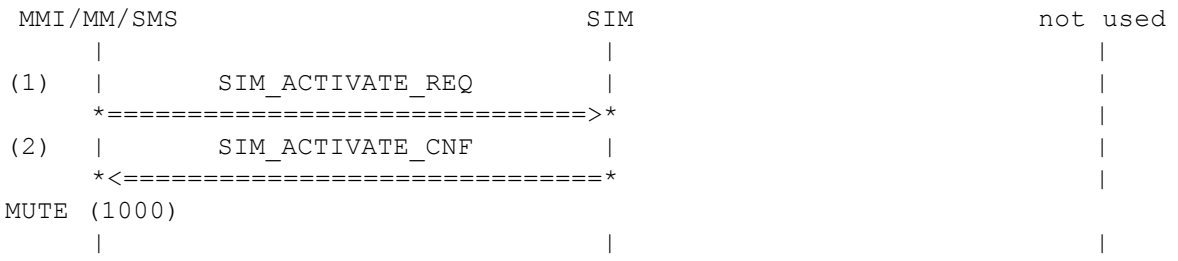
Primitive		Parameter	Value
(1)	SIM_ACTIVATE_REQ		
		proc	SIM_FDN_DISABLE
		mmi_pro_file	MMI_PROFILE
		stk_pro_file	STK_NOT_SUPPORTED
(2)	SIM_ACTIVATE_CNF		
		cause	SIM_NO_ERROR
		pin_cnt	NOT_USED
		puk_cnt	NOT_USED
		pin2_cnt	NOT_USED
		puk2_cnt	NOT_USED
		ec_code	NOT_USED
		pref_lang	NOT_USED
		atr	DISPLAY_ONLY

History:	29.09.98	LE	Initial
	25-Sep-2002	FK	Adaption to Cause Concept

2.3.5 SIM030: FDN to ADN, already ADN

Description: The SIM application is activated with unrestricted operation. The SIM supports both unrestricted and restricted operation. The MMI requests the change to unrestricted operation. The procedure succeeds, because it is the old status.

Preamble: SIM025



Parametrization

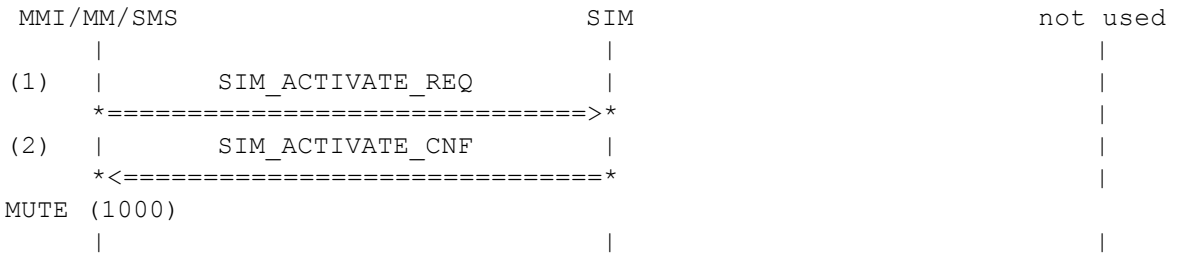
Primitive	Parameter	Value
(1) SIM_ACTIVATE_REQ		
	proc	SIM_FDN_DISABLE
	mmi_pro_file	MMI_PROFILE
	stk_pro_file	STK_NOT_SUPPORTED
(2) SIM_ACTIVATE_CNF		
	cause	SIM_NO_ERROR
	pin_cnt	NOT_USED
	puk_cnt	NOT_USED
	pin2_cnt	NOT_USED
	puk2_cnt	NOT_USED
	ec_code	NOT_USED
	pref_lang	NOT_USED
	atr	DISPLAY_ONLY

History:	29.09.98	LE	Initial
	25-Sep-2002	FK	Adaption to Cause Concept

2.3.6 SIM031: FDN to ADN, unsuccessfull case

Description: The SIM application is activated with restricted operation. The SIM supports only restricted operation. The MMI requests the change to unrestricted operation. The procedure fails.

Preamble: SIM013



Parametrization

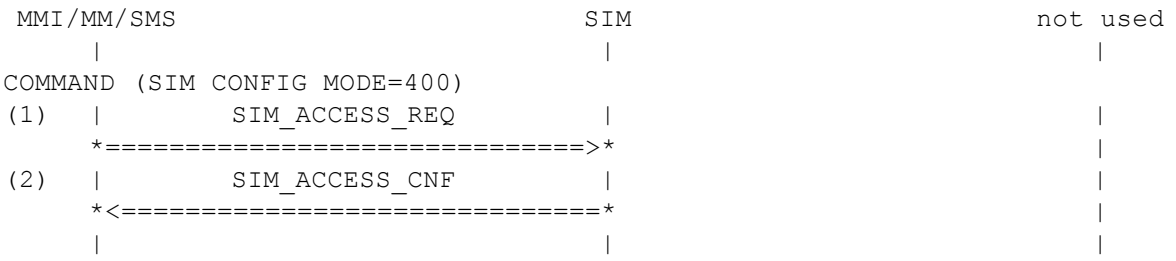
Primitive	Parameter	Value
(1) SIM_ACTIVATE_REQ		
	proc	SIM_FDN_DISABLE
	mmi_pro_file	MMI_PROFILE
	stk_pro_file	STK_NOT_SUPPORTED
(2) SIM_ACTIVATE_CNF		
	cause	SIM_CAUSE_ACCESS_PROHIBIT
	pin_cnt	NOT_USED
	puk_cnt	NOT_USED
	pin2_cnt	NOT_USED
	puk2_cnt	NOT_USED
	ec_code	NOT_USED
	pref_lang	NOT_USED
	atr	DISPLAY_ONLY

History:	29.09.98	LE	Initial
	25-Sep-2002	FK	Adaption to Cause Concept

2.3.7 SIM040: Restricted SIM Access – Wrong File ID

Description: The SIM is accessed by restricted SIM access using a wrong file ID. The status code of the unsatisfactory SELECT command has to be returned

Preamble: SIM007



Parametrization

Primitive	Parameter	Value
(1) SIM_ACCESS_REQ		
	source	SRC_MMI
	datafield	SIM_CBMID
	sim_command	SIM_READ_BINARY
	p1	ZERO
	p2	ZERO
	p3	P3_VAL_10
	trans_data	NOT_USED
(2) SIM_ACCESS_CNF		
	cause	SIM_CAUSE_UNKN_FILE_ID
	sw1	SW1_94
	sw2	SW2_04
	trans_data	DISPLAY_ONLY

History:	18-Apr-2000	FK	Initial
	25-Sep-2002	FK	Adaption to Cause Concept

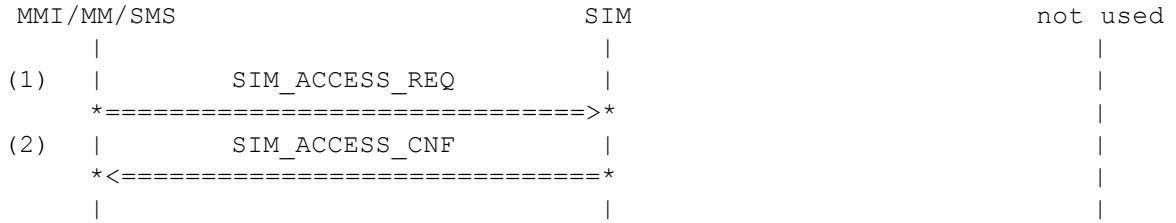
2.3.8 SIM041: Restricted SIM Access – STATUS Request

Description: The SIM is accessed by restricted SIM access requesting STATUS information. The variant A, B initialize a Phase 1 SIM, which returns in variant B SW1=67, because of the invalid P3 parameter

Variants: <A>...<D>

Preamble:

<A> SIM004
<B> SIM004
<C> SIM007
<D> SIM007



Parametrization

Primitive		Parameter	Value
(1) SIM_ACCESS_REQ			
		source	SRC_MMI
		datafield	NOT_PRESENT_16BIT
		sim_command	SIM_STATUS
		p1	ZERO
		p2	ZERO
	<A>	p3	P3_VAL_20
	<B>	p3	P3_VAL_22
	<C>	p3	P3_VAL_20
	<D>	p3	P3_VAL_22
		trans_data	NOT_USED
(2) SIM_ACCESS_CNF			
		cause	SIM_NO_ERROR
	<A>	sw1	SW1_90
	<B>	sw1	SW1_67
	<C>	sw1	SW1_90
	<D>	sw1	SW1_90
		sw2	SW2_00
		trans_data	DISPLAY_ONLY

History:	17-May-2000	FK	Initial
	25-Sep-2002	FK	Adaption to Cause Concept

2.4 Status Enquiry

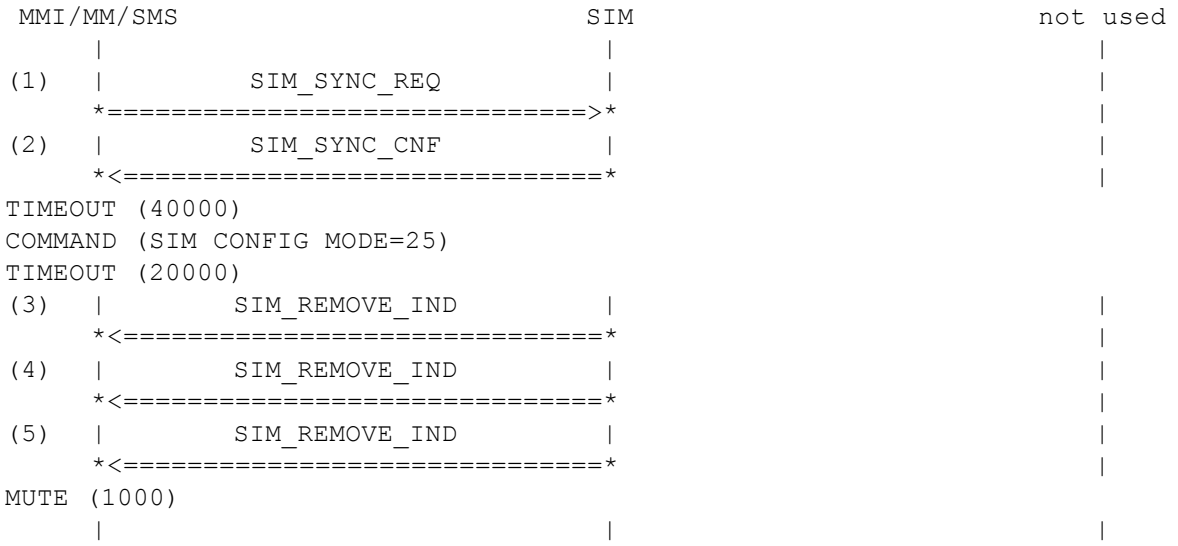
2.4.1 SIM050: Status Request (SIM Presence Detection)

Description: The SIM application requests all thirty seconds the status of the SIM card. After a first successfull status request after thirty seconds a mode is set that the second status request after sixty seconds fails. A SIM remove indication shall be send to MM, MMI and SMS. Phase 1 SIMs have only a STATUS response of 20 bytes.

Variants: <A>...<B>

Preamble:

<A> SIM004
<B> SIM007



Parametrization

Primitive		Parameter	Value
(1) SIM_SYNC_REQ			
		synccs	SYNC_START_CALL

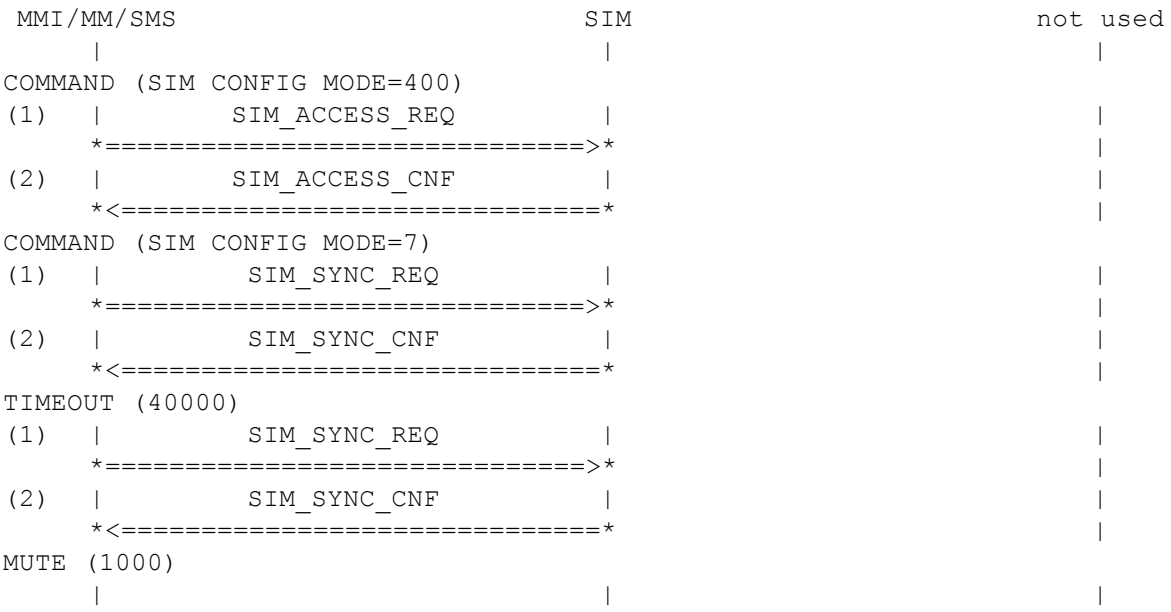
(2)	SIM_SYNC_CNF		
		cause	SIM_NO_ERROR
(3)	SIM_REMOVE_IND		
		cause	SIM_CAUSE_CARD_REMOVED
(4)	SIM_REMOVE_IND		
		cause	SIM_CAUSE_CARD_REMOVED
(5)	SIM_REMOVE_IND		
		cause	SIM_CAUSE_CARD_REMOVED

History:	01.10.98	LE	Initial
	10-May-2000	FK	Variant for Phase 1 SIM added
	25-Sep-2002	FK	Adaption to Cause Concept

2.4.2 SIM051: SIM Access Error before Status Request

Description: The last operation before the SIM status request is a restricted SIM access with an unsupported Elementary File ID. The SIM Presence Detection must not be confused by the error of the previously unsuccessful SIM access.

Preamble: SIM007



Parametrization

Primitive	Parameter	Value
(1) SIM_ACCESS_REQ		
	source	SRC_MMI
	datafield	SIM_CBMID
	sim_command	SIM_READ_BINARY
	p1	ZERO
	p2	ZERO
	p3	P3_VAL_10
	trans_data	NOT_USED
(2) SIM_ACCESS_CNF		
	cause	SIM_CAUSE_UNKN_FILE_ID
	sw1	SW1_94
	sw2	SW2_04
	trans_data	DISPLAY_ONLY
(3) SIM_SYNC_REQ		
	synccs	SYNC_START_CALL
(4) SIM_SYNC_CNF		
	cause	SIM_NO_ERROR

(5)	SIM_SYNC_REQ		
		synccs	SYNC_STOP_CALL
(6)	SIM_SYNC_CNF		
		cause	SIM_NO_ERROR

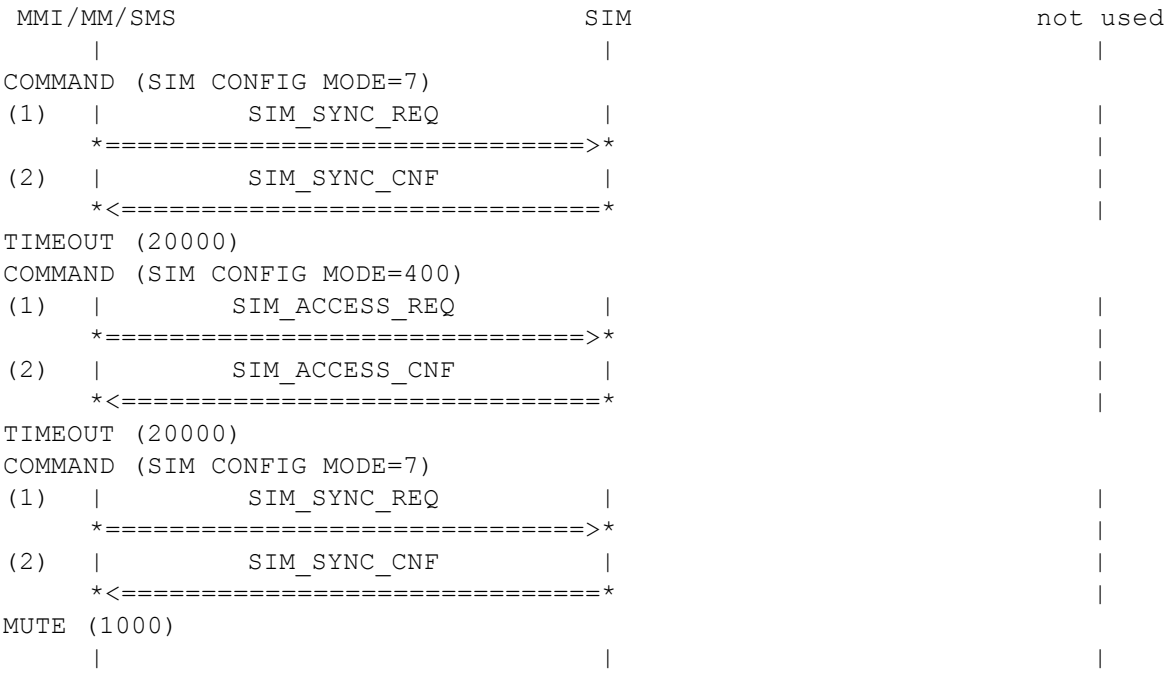
History:

10-May-2000	FK	Initial
25-Sep-2002	FK	Adaption to Cause Concept

2.4.3 SIM052: SIM Access Error during Status Request

Description: During the SIM status request a restricted SIM access with an unsupported Elementary File ID is performed. The SIM Presence Detection must not be confused by the error of this unsuccessful SIM access.

Preamble: SIM007



Parametrization

Primitive	Parameter	Value
(1) SIM_SYNC_REQ		
	synccs	SYNC_START_CALL
(2) SIM_SYNC_CNF		
	cause	SIM_NO_ERROR
(3) SIM_ACCESS_REQ		
	source	SRC_MMI
	datafield	SIM_CBMID
	sim_command	SIM_READ_BINARY
	p1	ZERO
	p2	ZERO
	p3	P3_VAL_10
	trans_data	NOT_USED
(4) SIM_ACCESS_CNF		
	cause	SIM_CAUSE_UNKN_FILE_ID
	sw1	SW1_94
	sw2	SW2_04
	trans_data	DISPLAY_ONLY
(5) SIM_SYNC_REQ		
	synccs	SYNC_STOP_CALL
(6) SIM_SYNC_CNF		
	cause	SIM_NO_ERROR

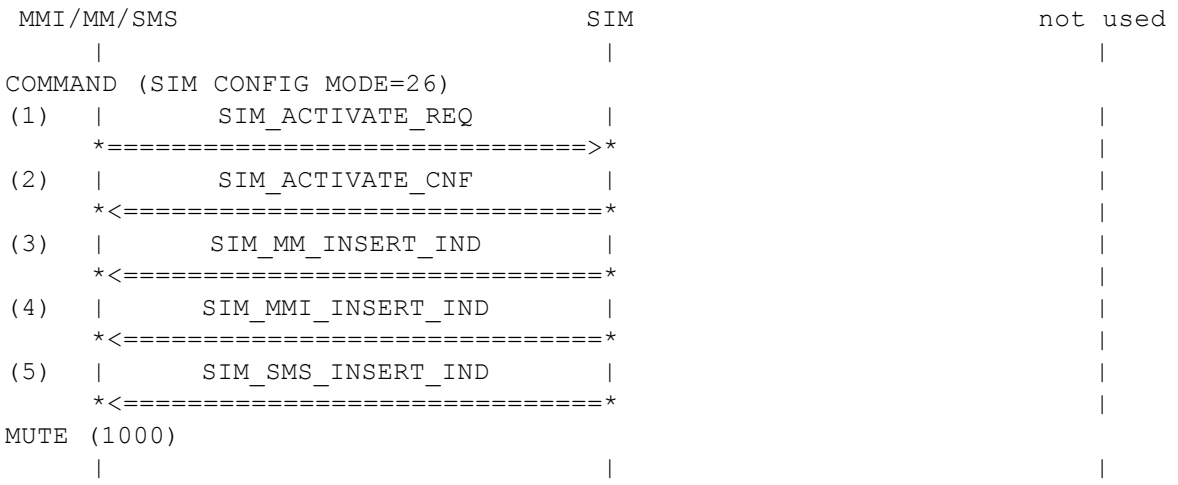
History:	10-May-2000	FK	Initial
	25-Sep-2002	FK	Adaption to Cause Concept

2.5 SIM Toolkit

2.5.1 SIM060: Phase 2+ SIM, no PIN entering

Description: The SIM application is activated. The inserted SIM card is a phase 2+ SIM without PIN entering. MM, MMI and SMS are informed with the important parameters for the components. The mobile has SIM toolkit capabilities.

Preamble: SIM000



Parametrization

Primitive	Parameter	Value
(1) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	MMI_PROFILE
	stk_pro_file	STK_SUPPORTED
(2) SIM_ACTIVATE_CNF		
	cause	SIM_NO_ERROR
	pin_cnt	PIN_3_ATTEMPTS
	puk_cnt	PUK_10_ATTEMPTS
	pin2_cnt	NOT_USED
	puk2_cnt	NOT_USED
	ec_code	EC_CODES
	pref_lang	LP_CODES
	atr	DISPLAY_ONLY
(3) SIM_MM_INSERT_IND		
	op_mode	OP_TA_SPECIAL
	imsi_field	IMSI
	loc_info	LOC_INFO
	acc_ctrl	ACC_CTRL
	bcch_inf	BCCH_INFO
	kc_n	KC_N
	pref_plmn	PREF_PLMN
	forb_plmn	FORB_PLMN
	phase	PHASE_2_PLUS_SIM
	hplmn	HPLMN_1

(4) SIM_MMI_INSERT_IND

func	SIM_ADN_ENABLED
sim_serv	SIM_SERV_PHASE_2_PLUS
imsi_field	IMSI
pref_plmn	PREF_PLMN
phase	PHASE_2_PLUS_SIM
access_acm	NOT_USED
access_acmmax	NOT_USED
access_puct	NOT_USED

(5) SIM_SMS_INSERT_IND

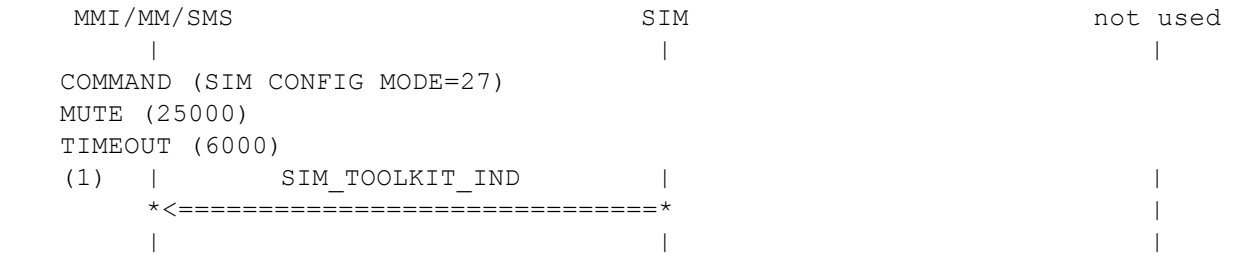
phase	PHASE_2_PLUS_SIM
tp_mr	TP_MR_1
mem_cap_avail	MEM_IS_AVAILABLE
download_sms	DOWNLOAD_SMS_YES
smsr_mem_cap	SIM_SMSR_DISABLE

History:			
	06.10.98	LE	Initial
	07-Mar-2000	FK	SIM_SMS_INSERT_IND extended
	25-Sep-2002	FK	Adaption to Cause Concept

2.5.2 SIM061: Display text, less than 128 bytes

Description: The SIM toolkit requests displaying of a text. The total length of the command is less than 128 characters. So the lenght is coded in one byte. The command itself is forwarded to MMI.

Preamble: SIM060



Parametrization

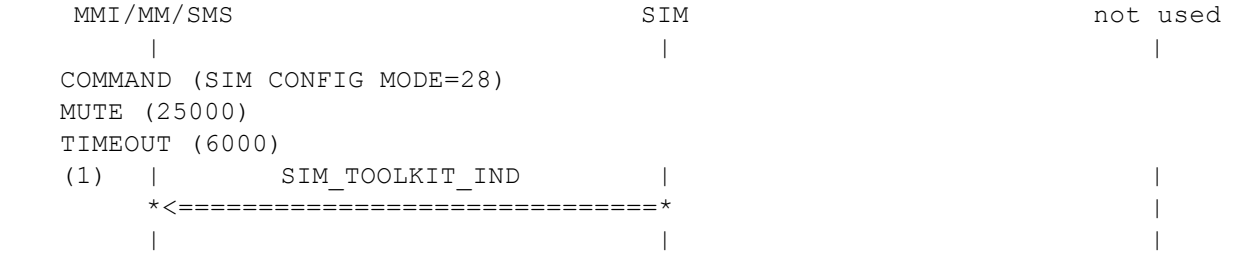
Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	STK_DISPLAY_TEXT_SHORT

History:			
	06.10.98	LE	Initial
	25-Sep-2002	FK	Adaption to Cause Concept
	06-Mar-2003	FK	Timing made independent from TAP settings

2.5.3 SIM062: Display text, more than 128 bytes

Description: The SIM toolkit requests displaying of a text. The total length of the command is greater than 128 characters. So the lenght is coded in two bytes. The command itself is forwarded to MMI.

Preamble: SIM060



Parametrization

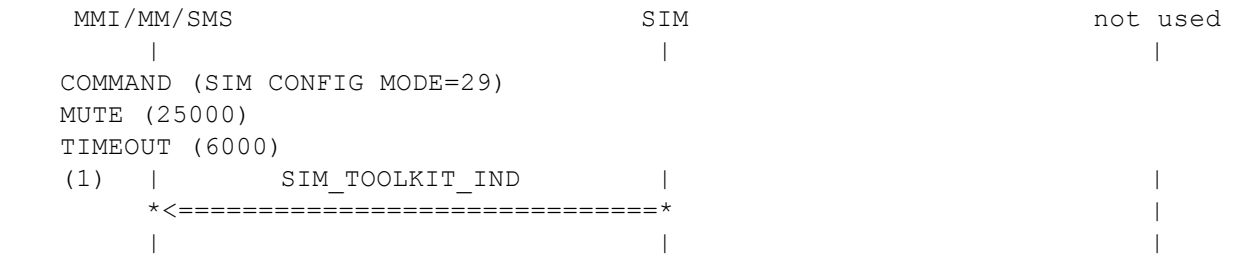
Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	STK_DISPLAY_TEXT_LONG

History:	06.10.98	LE	Initial
	06-Mar-2003	FK	Timing made independent from TAP settings

2.5.4 SIM063: Get Inkey

Description: The SIM toolkit requests an input key. The total length of the command is less than 128 characters. So the length is coded in one byte. The command itself is forwarded to MMI.

Preamble: SIM060



Parametrization

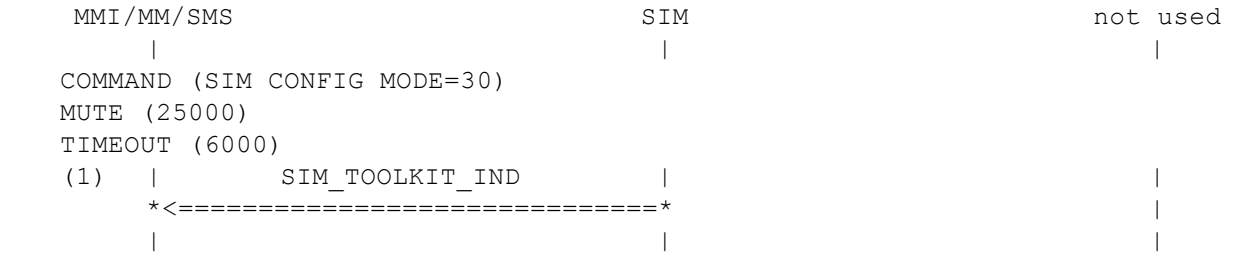
Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	STK_GET_INKEY

History:	06.10.98	LE	Initial
	06-Mar-2003	FK	Timing made independent from TAP settings

2.5.5 SIM064: Get Input

Description: The SIM toolkit requests an input string. The total length of the command is less than 128 characters. So the length is coded in one byte. The command itself is forwarded to MMI.

Preamble: SIM060



Parametrization

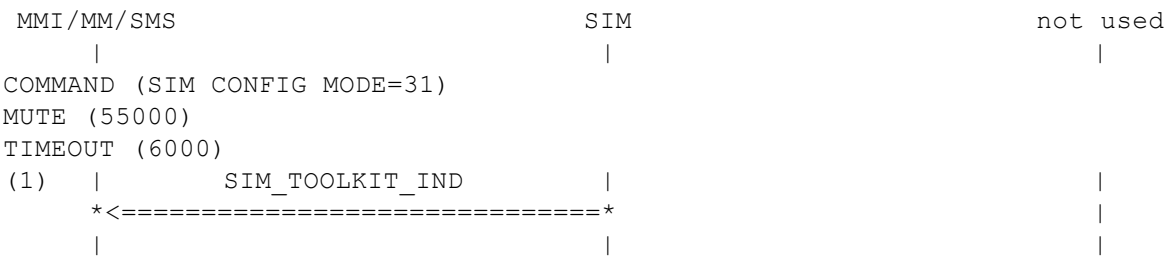
Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	STK_GET_INPUT

History:	06.10.98	LE	Initial
	06-Mar-2003	FK	Timing made independent from TAP settings

2.5.6 SIM065: More Time

Description: The SIM toolkit requests more time. The SIM application answers with a terminal response with ok. The terminal response is checked in the SIM driver simulation. If the response of SIM application is okay, internal mode is set to 27 and subsequent status request leads to a SIM toolkit command DISPLAY TEXT. If the terminal response differs the internal mode is set to 25, which leads to an status error and indication of an unexpected primitive in this testcase.

Preamble: SIM060



Parametrization

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	STK_DISPLAY_TEXT_SHORT

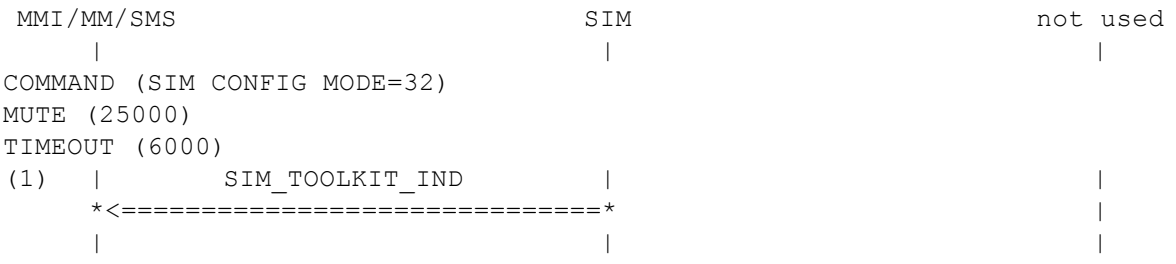
History:

06.10.98	LE	Initial
06-Mar-2003	FK	Timing made independent from TAP settings

2.5.7 SIM066: Play Tone

Description: The SIM toolkit requests playing of a tone. The total length of the command is less than 128 characters. So the length is coded in one byte. The command itself is forwarded to MMI.

Preamble: SIM060



Parametrization

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	STK_PLAY_TONE

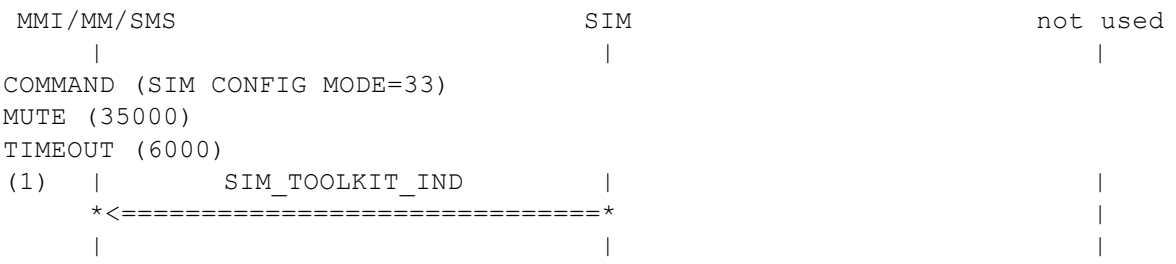
History:

06.10.98	LE	Initial
06-Mar-2003	FK	Timing made independent from TAP settings

2.5.8 SIM067: Poll Interval

Description: The SIM toolkit requests changing of the poll interval. The new interval is ten seconds. After this time a DISPLAY TEXT is expected. The timeout time is thirty seconds for fetching the poll interval command plus the half of the new interval period.

Preamble: SIM060



Parametrization

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	STK_DISPLAY_TEXT_SHORT

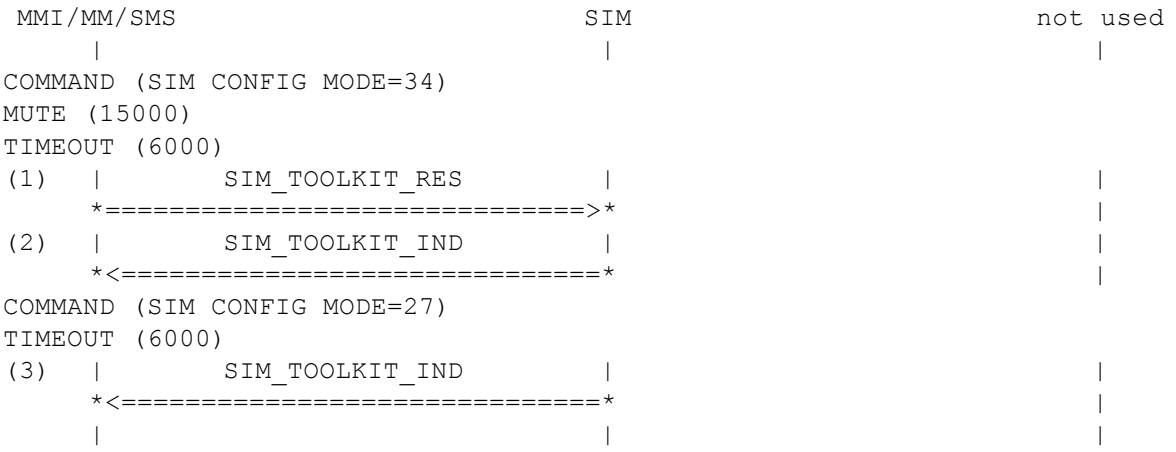
History:

06.10.98	LE	Initial
06-Mar-2003	FK	Timing made independent from TAP settings

2.5.9 SIM068: Polling Off

Description: The SIM toolkit sends a Polling Off comand. The timeout time is resetted to thirty seconds for fetching SIM Toolkit commands. During the first timeout (15 sec) the polling off shall be requested from the SIM toolkit part. The timeout time is now resetted to thirty seconds. So after ca. 5 sec from the first timeout plus the second timeout of 20 sec no message will be expected. After 25 sec (5+20) TAP expects the display text command. It shall reach after 30 seconds.

Preamble: SIM067



Parametrization

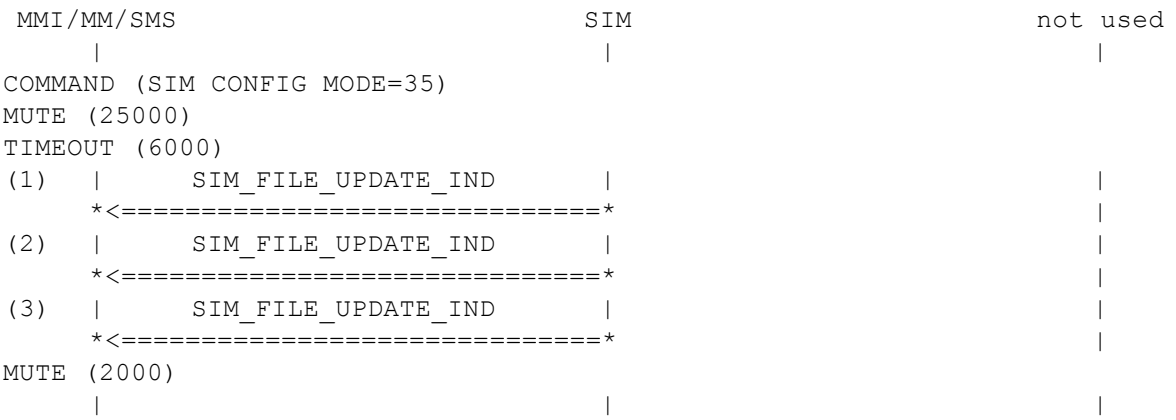
Primitive	Parameter	Value
(1) SIM_TOOLKIT_RES		
	stk_cmd	STK_TERM_RESP_DISPLAY_TEXT
(2) SIM_TOOLKIT_IND		
	stk_cmd	STK_NO_RESPONSE
(3) SIM_TOOLKIT_IND		
	stk_cmd	STK_DISPLAY_TEXT_SHORT

History:			
	06.10.98	LE	Initial
	06-Mar-2003	FK	Timing made independent from TAP settings

2.5.10 SIM069: Refresh (File Change Notification)

Description: The SIM toolkit issues a File Change Notification. The file list is reduced to the identifiers of the Elementary Files, which are forwarded to MM, SMS and MMI.

Preamble: SIM060



Parametrization

Primitive	Parameter	Value
(1) SIM_FILE_UPDATE_IND		
	val_nr	FL_MODE_35_NR
	file_id	FILE_LIST_MODE_35

(2) SIM_FILE_UPDATE_IND		
	val_nr	FL_MODE_35_NR
	file_id	FILE_LIST_MODE_35
(3) SIM_FILE_UPDATE_IND		
	val_nr	FL_MODE_35_NR
	file_id	FILE_LIST_MODE_35

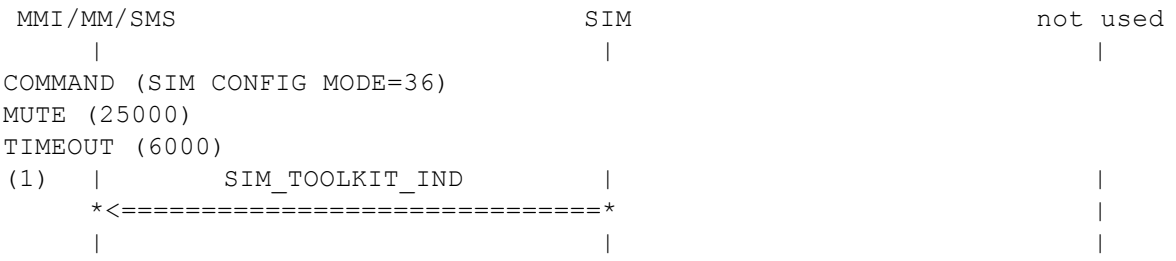
History:

06.10.98	LE	Initial
06-Mar-2003	FK	Timing made independent from TAP settings

2.5.11 SIM070: Set Up Menu

Description: The SIM toolkit requests set up of a menu. The total length of the command is less than 128 characters. So the length is coded in one byte. The command itself is forwarded to MMI.

Preamble: SIM060



Parametrization

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	STK_SET_UP_MENU

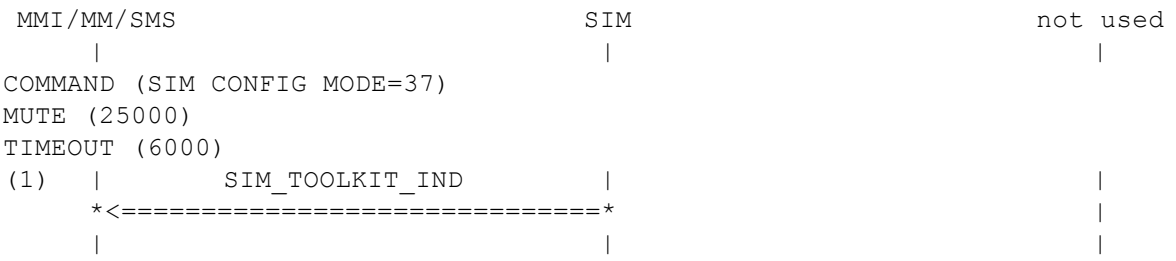
History:

06.10.98	LE	Initial
06-Mar-2003	FK	Timing made independent from TAP settings

2.5.12 SIM071: Select Item

Description: The SIM toolkit requests selection of an item. The total length of the command is less than 128 characters. So the length is coded in one byte. The command itself is forwarded to MMI.

Preamble: SIM060



Parametrization

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	STK_SELECT_ITEM

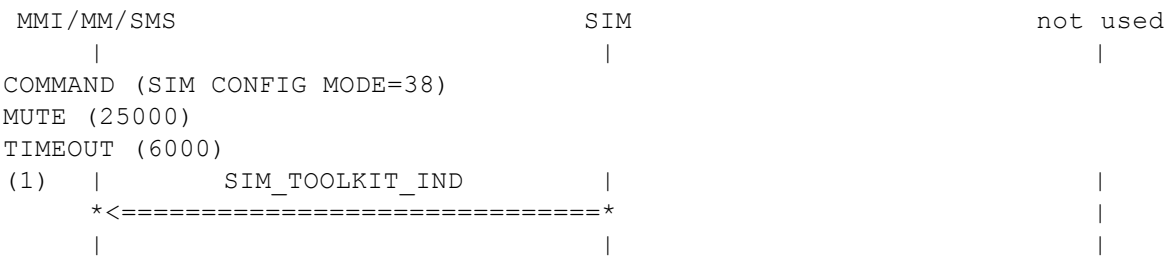
History:

06.10.98	LE	Initial
06-Mar-2003	FK	Timing made independent from TAP settings

2.5.13 SIM072: Send Short Message

Description: The SIM toolkit requests sending of a short message. The total length of the command is less than 128 characters. So the length is coded in one byte. The command itself is forwarded to MMI.

Preamble: SIM060



Parametrization

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	STK_SEND_SMS

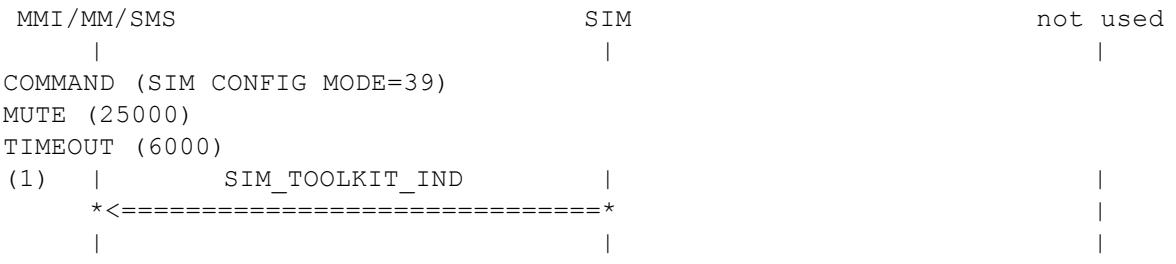
History:

06.10.98	LE	Initial
06-Mar-2003	FK	Timing made independent from TAP settings

2.5.14 SIM073: Send Supplementary Service

Description: The SIM toolkit requests sending of a supplementary service. The total length of the command is less than 128 characters. So the length is coded in one byte. The command itself is forwarded to MMI.

Preamble: SIM060



Parametrization

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	STK_SEND_SS

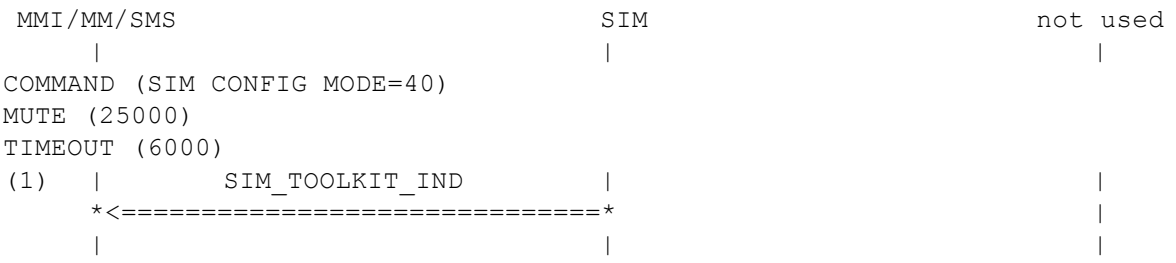
History:

06.10.98	LE	Initial
06-Mar-2003	FK	Timing made independent from TAP settings

2.5.15 SIM074: Set up Call

Description: The SIM toolkit requests set up of a call. The total length of the command is less than 128 characters. So the length is coded in one byte. The command itself is forwarded to MMI.

Preamble: SIM060



Parametrization

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	STK_SET_UP_CALL

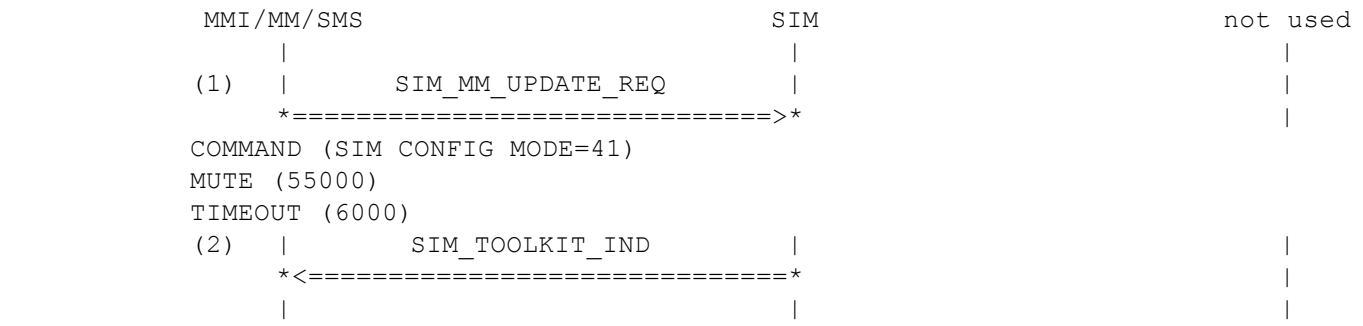
History:

06.10.98	LE	Initial
06-Mar-2003	FK	Timing made independent from TAP settings

2.5.16 SIM075: Provide Local Information (Location Information, available)

Description: The SIM toolkit requests provision of location information. The information is available and the SIM application sends a Terminal Response to the SIM toolkit with the requested information. The terminal response is checked in the SIM driver simulation. If the response of SIM application is okay, internal mode is set to 27 and subsequent status request leads to a SIM toolkit command DISPLAY TEXT. If the terminal response differs the internal mode is set to 25, which leads to a status error and indication of an unexpected primitive in this testcase.

Preamble: SIM060



Parametrization

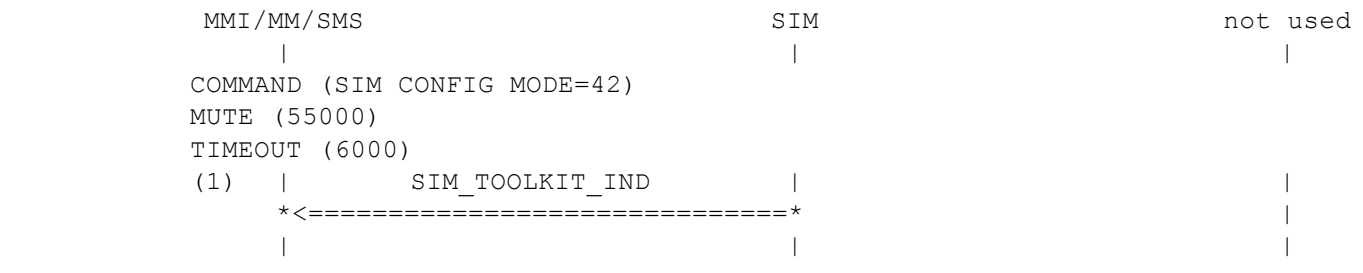
Primitive	Parameter	Value
(1) SIM_MM_UPDATE_REQ		
	loc_info	LAI_262_01_0033
	bcch_inf	NOT_USED
	forb_plmn	NOT_USED
	cksn	NOT_USED
	kc	NOT_USED
	cell_identity	CELL_ID_0022
(2) SIM_TOOLKIT_IND		
	stk_cmd	STK_DISPLAY_TEXT_SHORT

History:			
	06.10.98	LE	Initial
	06-Mar-2003	FK	Timing made independent from TAP settings

2.5.17 SIM076: Provide Local Information (Location Information, not available)

Description: The SIM toolkit requests provision of local information. The information is not available and the SIM application sends a Terminal Response to the SIM toolkit with the cause temporary problem with executing command. The terminal response is checked in the SIM driver simulation. If the response of SIM application is okay, internal mode is set to 27 and subsequent status request leads to a SIM toolkit command DISPLAY TEXT. If the terminal response differs the internal mode is set to 25, which leads to an status error and indication of an unexpected primitive in this testcase.

Preamble: SIM060



Parametrization

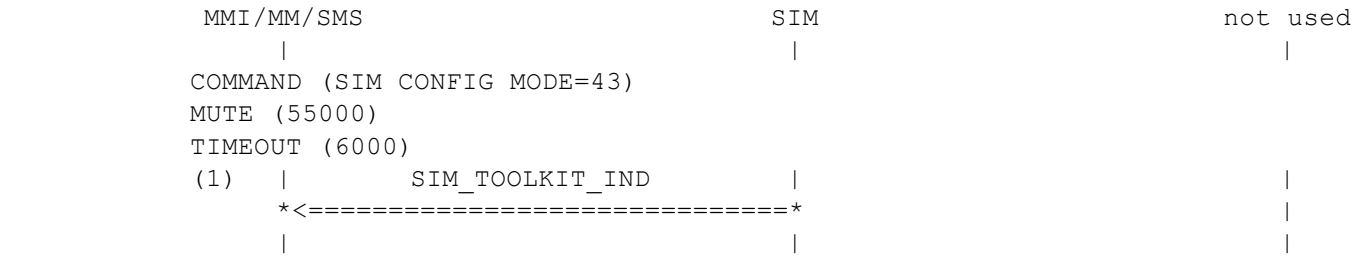
Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	STK_DISPLAY_TEXT_SHORT

History:			
	06.10.98	LE	Initial
	06-Mar-2003	FK	Timing made independent from TAP settings

2.5.18 SIM077: Provide Local Information (IMEI)

Description: The SIM toolkit requests provision of IMEI. The information is available and the SIM application sends a Terminal Response to the SIM toolkit with the requested information. The terminal response is checked in the SIM driver simulation. If the response of SIM application is okay, internal mode is set to 27 and subsequent status request leads to a SIM toolkit command DISPLAY TEXT. If the terminal response differs the internal mode is set to 25, which leads to an status error and indication of an unexpected primitive in this testcase.

Preamble: SIM060



Parametrization

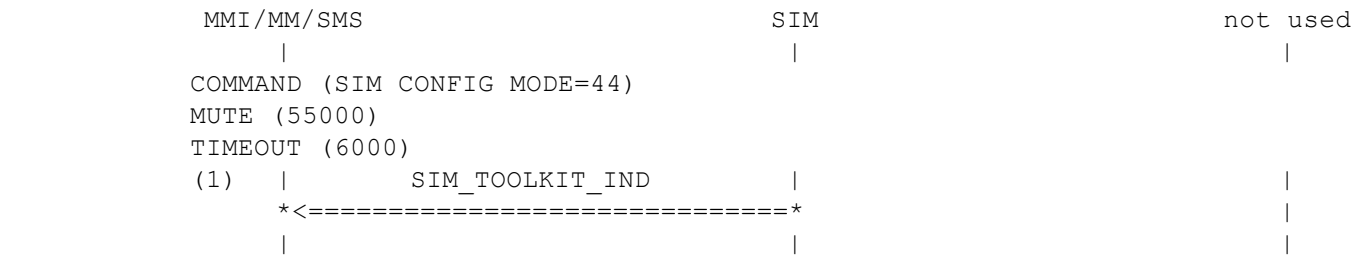
Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	STK_DISPLAY_TEXT_SHORT

History:			
	06.10.98	LE	Initial
	06-Mar-2003	FK	Timing made independent from TAP settings

2.5.19 SIM078: Provide Local Information (non-supported request)

Description: The SIM toolkit requests local information, which is not supported by the SIM application. The SIM application sends a Terminal Response to the SIM toolkit with the cause request beyond MEs capabilities.. The terminal response is checked in the SIM driver simulation. If the response of SIM application is okay, internal mode is set to 27 and subsequent status request leads to a SIM toolkit command DISPLAY TEXT. If the terminal response differs the internal mode is set to 25, which leads to an status error and indication of an unexpected primitive in this testcase.

Preamble: SIM060



Parametrization

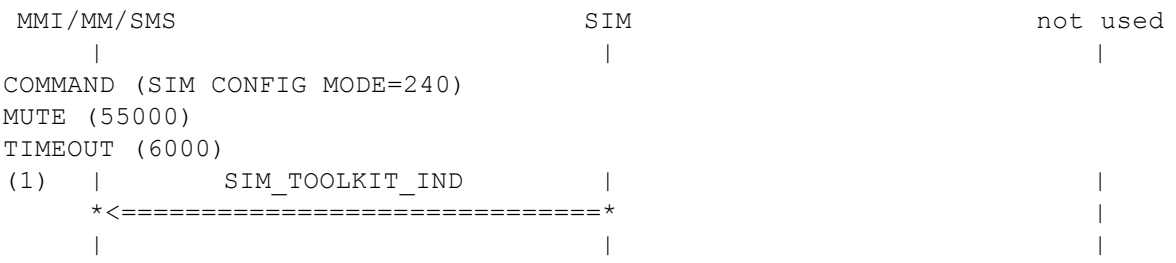
Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	STK_DISPLAY_TEXT_SHORT

History:			
	06.10.98	LE	Initial
	06-Mar-2003	FK	Timing made independent from TAP settings

2.5.20 SIM079: Provide Local Information (Network Measurement Results)

Description: The SIM toolkit requests provision of Network Measurement Results. The information is available and the SIM application sends a Terminal Response to the SIM toolkit with the requested information. The terminal response is checked in the SIM driver simulation. If the response of SIM application is okay, internal mode is set to 27 and subsequent status request leads to a SIM toolkit command DISPLAY TEXT. If the terminal response differs the internal mode is set to 25, which leads to an status error and indication of an unexpected primitive in this testcase.

Preamble: SIM060



Parametrization

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	STK_DISPLAY_TEXT_SHORT

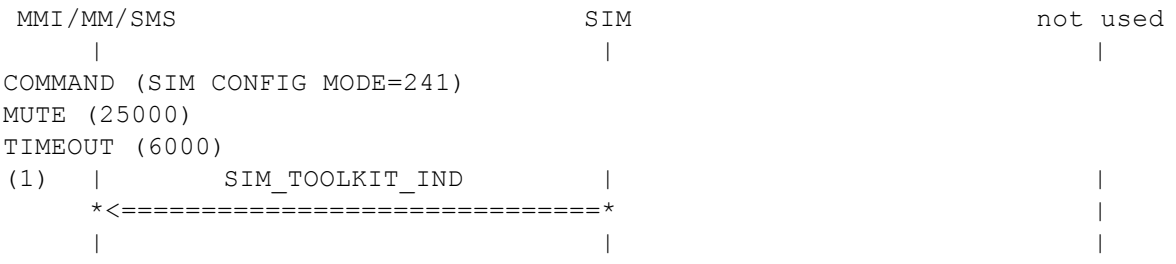
History:

06.10.98	LE	Initial
06-Mar-2003	FK	Timing made independent from TAP settings

2.5.21 SIM080: Provide Local Information (Date, Time, Timezone)

Description: The SIM toolkit requests the provision of the date/time/timezone information. This variant of the PROVIDE LOCAL INFORMATION command has to be handled outside the SIM, therefor it is sent to ACI/MMI.

Preamble: SIM060



Parametrization

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	STK_PLI_DTT

History:

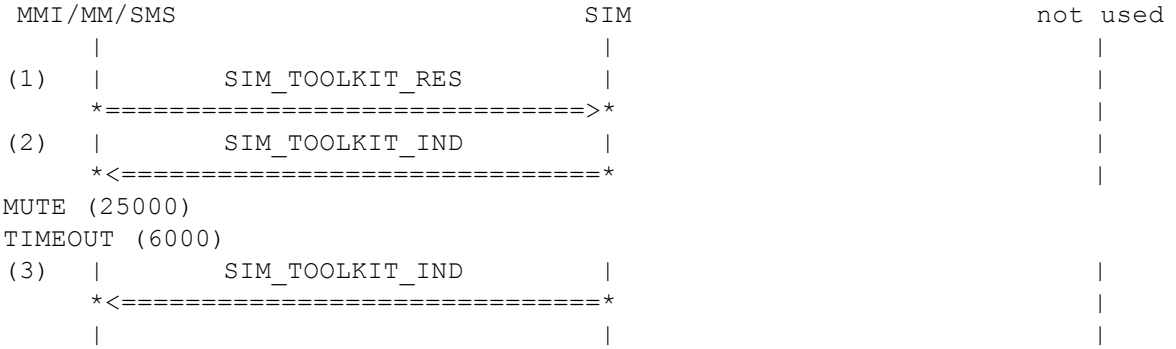
23-May-2002	FK	Initial
06-Mar-2003	FK	Timing made independent from TAP settings

2.6 MMI Terminal Response

2.6.1 SIM090: Terminal Response from MMI

Description: MMI returns a terminal response message as answer to a PLAY TONE command of the preamble. The message is forwarded to the SIM driver. The terminal response is checked in the SIM driver simulation. If the forwarded message is okay, internal mode is set to 27 and subsequent status request leads to a SIM toolkit command DISPLAY TEXT. If the terminal response differs the internal mode is set to 25, which leads to an status error and indication of an unexpected primitive in this testcase.

Preamble: SIM066



Parametrization

Primitive	Parameter	Value
(1) SIM_TOOLKIT_RES		
	stk_cmd	STK_TERM_RESP_PLAY_TONE
(2) SIM_TOOLKIT_IND		
	stk_cmd	STK_NO_RESPONSE
(3) SIM_TOOLKIT_IND		
	stk_cmd	STK_DISPLAY_TEXT_SHORT

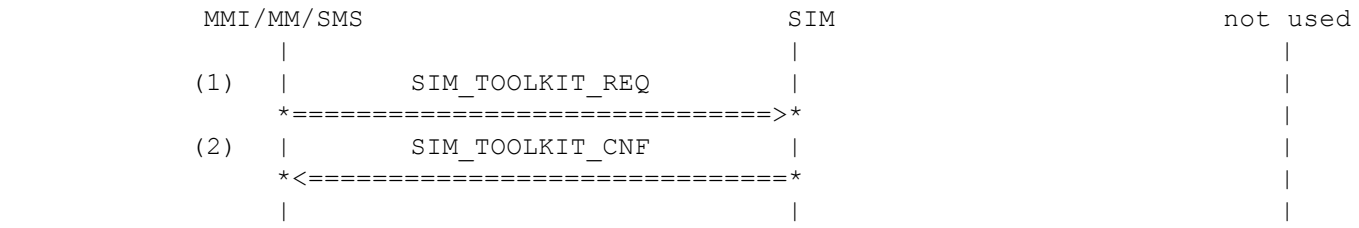
History:	06.10.98	LE	Initial
	09-Mar-2000	FK	Test case wasn't conclusive
	06-Mar-2003	FK	Timing made independent from TAP settings

2.7 Envelope

2.7.1 SIM100: SMS-PP Data Download, no response from SIM toolkit

Description: In the preamble SMS was informed about the capability of performing data download to the SIM toolkit via point-to-point SMS. SMS has detected a download message and creates the ENVELOPE (SMS-PP DOWNLOAD) command. The SIM application forwards the command to the SIM driver. The SIM driver indicates no response data. The SIM application sends a response to SMS.

Preamble: SIM060



Parametrization

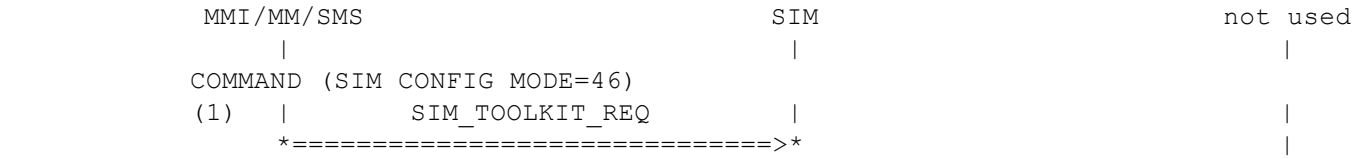
Primitive	Parameter	Value
(1) SIM_TOOLKIT_REQ		
	source	SRC_SMS
	req_id	MMI_REQ_ID
	stk_cmd	STK_ENVELOPE
(2) SIM_TOOLKIT_CNF		
	cause	SIM_NO_ERROR
	req_id	MMI_REQ_ID
	stk_cmd	STK_NO_RESPONSE

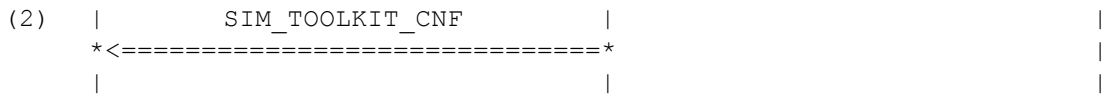
History:	06.10.98	LE	Initial
	15-Nov-99	FK	Update due to SAP change
	25-Sep-2002	FK	Adaption to Cause Concept

2.7.2 SIM101: SMS-PP Data Download, response from SIM toolkit

Description: In the preamble SMS was informed about the capability of performing data download to the SIM toolkit via point-to-point SMS. SMS has detected a download message and creates the ENVELOPE (SMS-PP DOWNLOAD) command. The SIM application forwards the command to the SIM driver. The SIM driver indicates response data. The SIM application sends a response to SMS.

Preamble: SIM060





Parametrization

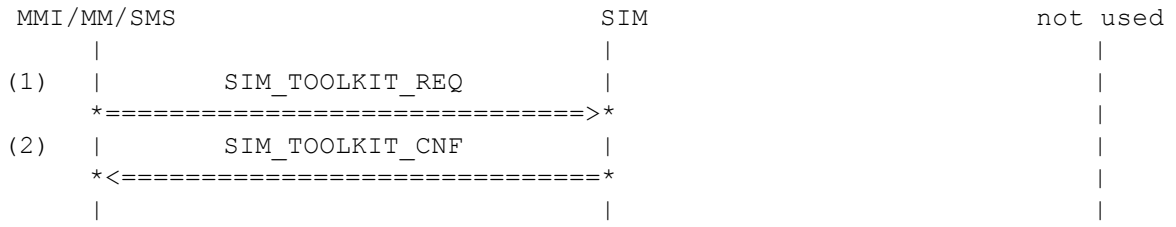
Primitive	Parameter	Value
(1) SIM_TOOLKIT_REQ		
	source	SRC_SMS
	req_id	MMI_REQ_ID
	stk_cmd	STK_ENVELOPE
(2) SIM_TOOLKIT_CNF		
	cause	SIM_NO_ERROR
	req_id	MMI_REQ_ID
	stk_cmd	STK_RESPONSE

History:			
	06.10.98	LE	Initial
	15-Nov-99	FK	Update due to SAP change
	25-Sep-2002	FK	Adaption to Cause Concept

2.7.3 SIM102: MMI initiated ENVELOPE, no response from SIM toolkit

Description: MMI starts an ENVELOPE command for Cell Broadcast Download, Menu Selection or Call Control by SIM. The ENVELOPE command is forwarded to the SIM application. The SIM application forwards the command to the SIM driver. The SIM driver indicates no response data. The SIM application sends a response to MMI.

Preamble: SIM060



Parametrization

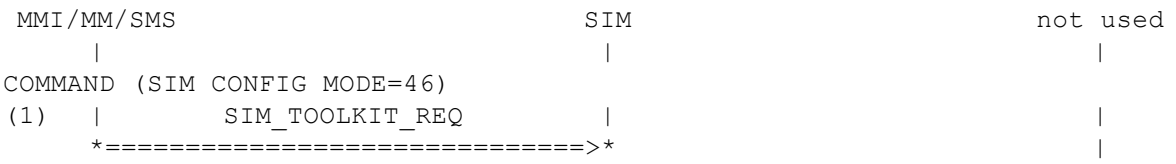
Primitive	Parameter	Value
(1) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	MMI_REQ_ID
	stk_cmd	STK_ENVELOPE
(2) SIM_TOOLKIT_CNF		
	cause	SIM_NO_ERROR
	req_id	MMI_REQ_ID
	stk_cmd	STK_NO_RESPONSE

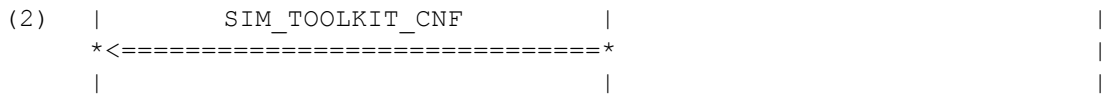
History:			
	06.10.98	LE	Initial
	15-Nov-99	FK	Update due to SAP change
	25-Sep-2002	FK	Adaption to Cause Concept

2.7.4 SIM103: MMI initiated ENVELOPE, response from SIM toolkit

Description: MMI starts an ENVELOPE command for Cell Broadcast Download, Menu Selection or Call Control by SIM. The ENVELOPE command is forwarded to the SIM application. The SIM application forwards the command to the SIM driver. The SIM driver indicates response data. The SIM application sends a response to MMI.

Preamble: SIM060





Parametrization

Primitive	Parameter	Value
(1) SIM_TOOLKIT_REQ		
	source	SRC_MMI
	req_id	MMI_REQ_ID
	stk_cmd	STK_ENVELOPE
(2) SIM_TOOLKIT_CNF		
	cause	SIM_NO_ERROR
	req_id	MMI_REQ_ID
	stk_cmd	STK_RESPONSE

History:	06.10.98	LE	Initial
	15-Nov-99	FK	Update due to SAP change
	25-Sep-2002	FK	Adaption to Cause Concept

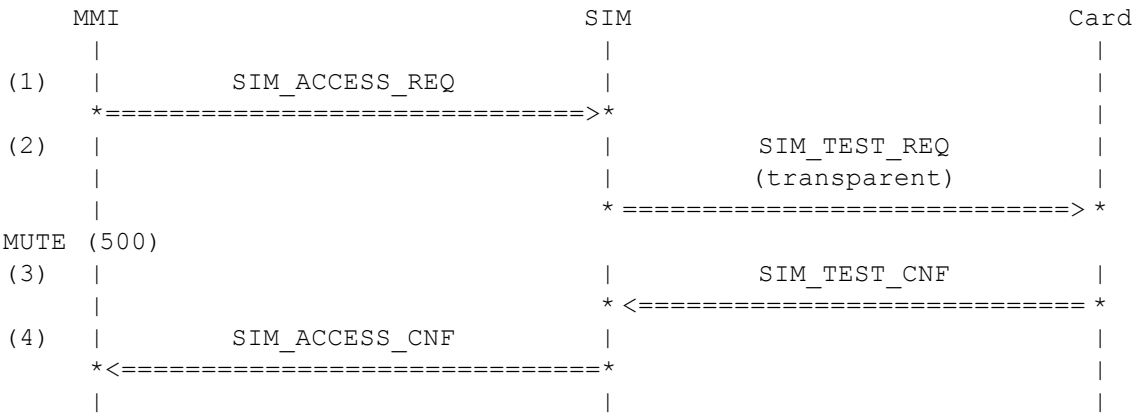
2.8 Unrestricted SIM Access

2.8.1 SIM151: Direct Conversion APDU to TPDU

Description: Transparent APDU access with a set, read or write command.

Variants: <A>...<E>

Preamble:
<A> SIM007
<B> SIM151A
<C> SIM152A
<D> SIM151C
<E> SIM152A



Parametrization

Primitive	Parameter	Value
(1) SIM_ACCESS_REQ		
	source	SRC_MMI
	datafield	ZERO
	sim_command	SIM_TRANSP_CMD
	p1	ZERO
	p2	ZERO
	p3	ZERO
<A>	trans_data	WIM_CMD_OPEN_CHANNEL
<B>	trans_data	WIM_CMD_SELECT_AID
<C>	trans_data	WIM_CMD_READ_BINARY_odf
<D>	trans_data	WIM_CMD_MSE_RESTORE
<E>	trans_data	WIM_CMD_READ_BINARY_FALSE

(2)	SIM_TEST_REQ		
	<A>	cla	WIM_CMD_CLA0_CHAN0
	<B>	cla	WIM_CMD_CLA0_CHAN1
	<C>	cla	WIM_CMD_CLA8_CHAN1
	<D>	cla	WIM_CMD_CLA8_CHAN1
	<E>	cla	WIM_CMD_CLA8_CHAN1
	<A>	ins_code	WIM_CMD_INS_OPEN_CHAN
	<B>	ins_code	WIM_CMD_INS_SELECT
	<C>	ins_code	WIM_CMD_INS_READ_BINARY
	<D>	ins_code	WIM_CMD_INS_MSE_RESTORE
	<E>	ins_code	WIM_CMD_INS_READ_BINARY
	<A>	p1	ZERO
	<B>	p1	WIM_CMD_SELECT_P1_AID
	<C>	p1	ZERO
	<D>	p1	WIM_CMD_MSE_RESTORE_P1
	<E>	p1	ZERO
	<A>	p2	ZERO
	<B>	p2	ZERO
	<C>	p2	ZERO
	<D>	p2	WIM_CMD_MSE_RESTORE_P2
	<E>	p2	ZERO
	<A>	le	WIM_LEN_OPEN_CHANNEL
	<B>	le	WIM_LEN_SELECT_AID
	<C>	le	WIM_LEN_READ_BINARY_odf
	<D>	le	ZERO
	<E>	le	ZERO
	<A>	stk_cmd	EMPTY_STK_CMD
	<B>	stk_cmd	WIM_TST_SELECT_AID
	<C>	stk_cmd	EMPTY_STK_CMD
	<D>	stk_cmd	EMPTY_STK_CMD
	<E>	stk_cmd	EMPTY_STK_CMD
(3)	SIM_TEST_CNF		
	<A>	sw1	SW1_SUCCESS
	<B>	sw1	SW1_SUCCESS
	<C>	sw1	SW1_SUCCESS
	<D>	sw1	SW1_SUCCESS
	<E>	sw1	SW1_ERR_INCORRECT_P3
		sw2	ZERO
	<A>	stk_cmd	WIM_TST_OPEN_CHANNEL
	<B>	stk_cmd	EMPTY_STK_CMD
	<C>	stk_cmd	WIM_TST_READ_BINARY_odf
	<D>	stk_cmd	EMPTY_STK_CMD
	<E>	stk_cmd	EMPTY_STK_CMD
(4)	SIM_ACCESS_CNF		
		cause	SIM_NO_ERROR
	<A>	sw1	SW1_SUCCESS
	<B>	sw1	SW1_SUCCESS
	<C>	sw1	SW1_SUCCESS
	<D>	sw1	SW1_SUCCESS
	<E>	sw1	SW1_ERR_INCORRECT_P3
		sw2	SW2_NORMAL
	<A>	trans_data	WIM_RSP_OPEN_CHANNEL
	<B>	trans_data	EMPTY_ARRAY
	<C>	trans_data	WIM_RSP_READ_BINARY_odf
	<D>	trans_data	EMPTY_ARRAY
	<E>	trans_data	EMPTY_ARRAY

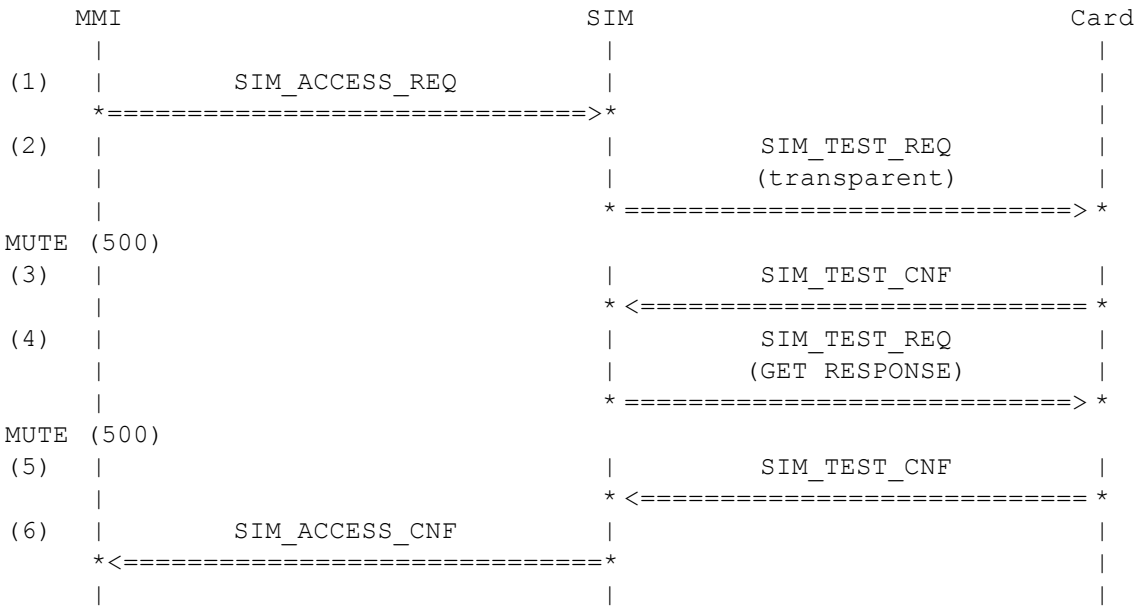
History: 12-Aug-2003 FK Initial

2.8.2 SIM152: Conversion APDU to TPDU with Additional GET RESPONSE

Description: Transparent APDU access with a read-after-write command.

Variants: <A>...<B>

Preamble: <A> SIM151B
<B> SIM151C



Parametrization

Primitive	Parameter	Value
(1) SIM_ACCESS_REQ		
	source	SRC_MMI
	datafield	ZERO
	sim_command	SIM_TRANSP_CMD
	p1	ZERO
	p2	ZERO
	p3	ZERO
<A>	trans_data	WIM_CMD_SELECT_FILE_odf
<B>	trans_data	WIM_CMD_SELECT_FILE_cdf
(2) SIM_TEST_REQ		
<A>	cla	WIM_CMD_CLA8_CHAN1
<B>	cla	WIM_CMD_CLA8_CHAN1
<A>	ins_code	WIM_CMD_INS_SELECT
<B>	ins_code	WIM_CMD_INS_SELECT
	p1	ZERO
	p2	ZERO
	le	WIM_LEN_SELECT_FILE
<A>	stk_cmd	WIM_TST_SELECT_FILE_odf
<B>	stk_cmd	WIM_TST_SELECT_FILE_cdf
(3) SIM_TEST_CNF		
	sw1	WIM_STAT_SW1_GET_RESP
	sw2	WIM_STAT_SW2_SELECT_FILE
<A>	stk_cmd	EMPTY_STK_CMD
<B>	stk_cmd	EMPTY_STK_CMD

(4)	SIM_TEST_REQ		
	<A>	cla	WIM_CMD_CLA8_CHAN1
	<B>	cla	WIM_CMD_CLA8_CHAN1
		ins_code	WIM_CMD_INS_GET_RESP
		p1	ZERO
		p2	ZERO
		le	WIM_STAT_SW2_SELECT_FILE
		stk_cmd	EMPTY_STK_CMD
(5)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS
		sw2	SW2_NORMAL
	<A>	stk_cmd	WIM_TST_GET_RESPONSE_odf
	<B>	stk_cmd	WIM_TST_GET_RESPONSE_cdf
(6)	SIM_ACCESS_CNF		
		cause	SIM_NO_ERROR
		sw1	SW1_SUCCESS
		sw2	SW2_NORMAL
	<A>	trans_data	WIM_RSP_GET_RESPONSE_odf
	<B>	trans_data	WIM_RSP_GET_RESPONSE_cdf

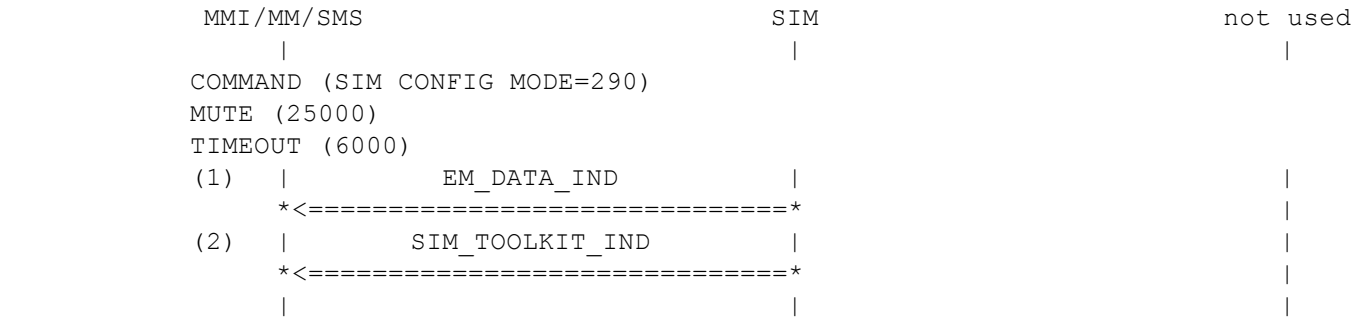
History:	12-Aug-2003	FK	Initial

2.9 Engineering Mode

2.9.1 SIM180: Engineering mode

Description: The SIM toolkit requests an input key. The total length of the command is less than 128 characters. So the length is coded in one byte. The command itself is forwarded to MMI.

Preamble: SIM060



Parametrization

Primitive	Parameter	Value
(1) EM_DATA_IND		
	entity	ENTITY
(2) SIM_TOOLKIT_IND		
	stk_cmd	STK_GET_INKEY

History:	23-Oct-2001	OT	Initial
	28-May-2002	FK	TC number changed
	06-Mar-2003	FK	Timing made independent from TAP settings

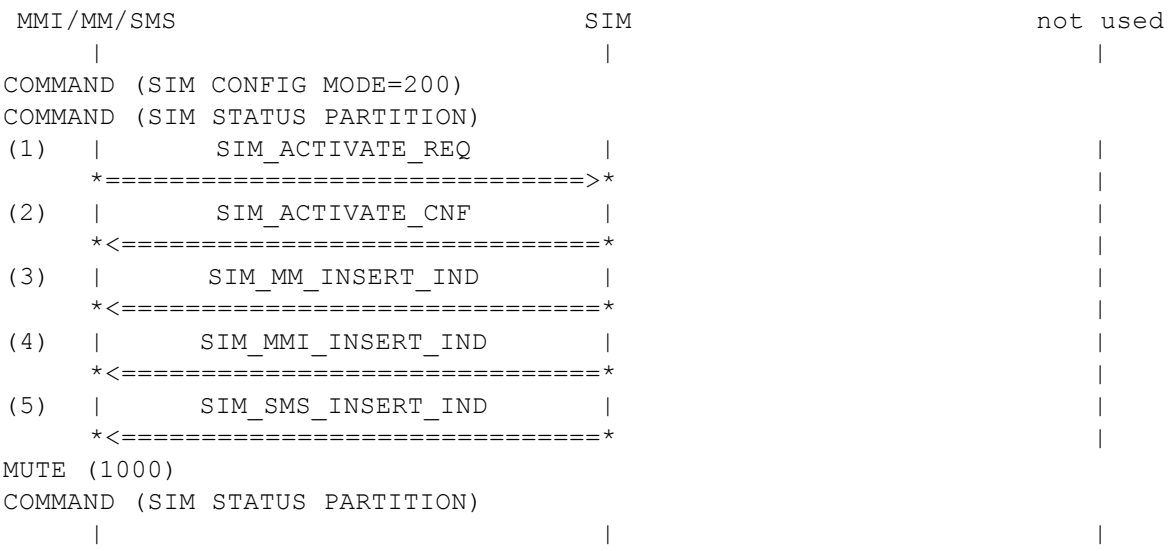
2.10 SIM Toolkit — Additional Test Cases

2.10.1 SIM200: Phase 2+ SIM, no PIN Entering, Various Terminal Profiles

Description: The SIM application is activated. The inserted SIM card is a phase 2+ SIM without PIN entering. MM, MMI and SMS are informed with the important parameters for the components. The mobile has SIM Toolkit capabilities. The SIM sets the Poll Intervall to 5 seconds speeding up subsequent tests.

Variants: <A>...<F>

Preamble: SIM000



Parametrization

Primitive	Parameter	Value
(1) SIM_ACTIVATE_REQ		
	proc	SIM_INITIALISATION
	mmi_pro_file	MMI_PROFILE
<A>	stk_pro_file	STK_NOT_SUPPORTED
<B>	stk_pro_file	STK_SUPPORTED
<C>	stk_pro_file	STK_FULL_CLASS2
<D>	stk_pro_file	STK_FULL_CLASS3
<E>	stk_pro_file	STK_FULL_CLASSC
<F>	stk_pro_file	STK_FULL_CLASSE
(2) SIM_ACTIVATE_CNF		
	cause	SIM_NO_ERROR
	pin_cnt	PIN_3_ATTEMPTS
	puk_cnt	PUK_10_ATTEMPTS
	pin2_cnt	PIN_3_ATTEMPTS
	puk2_cnt	PUK_10_ATTEMPTS
	ec_code	EC_CODES
	pref_lang	LP_CODES
	atr	DISPLAY_ONLY
(3) SIM_MM_INSERT_IND		
	op_mode	OP_TA_SPECIAL
	imsi_field	IMSI
	loc_info	LOC_INFO
	acc_ctrl	ACC_CTRL
	bcch_inf	BCCH_INFO
	kc_n	KC_N
	pref_plmn	PREF_PLMN
	forb_plmn	FORB_PLMN
	phase	PHASE_2_PLUS_SIM
	hplmn	HPLMN_1

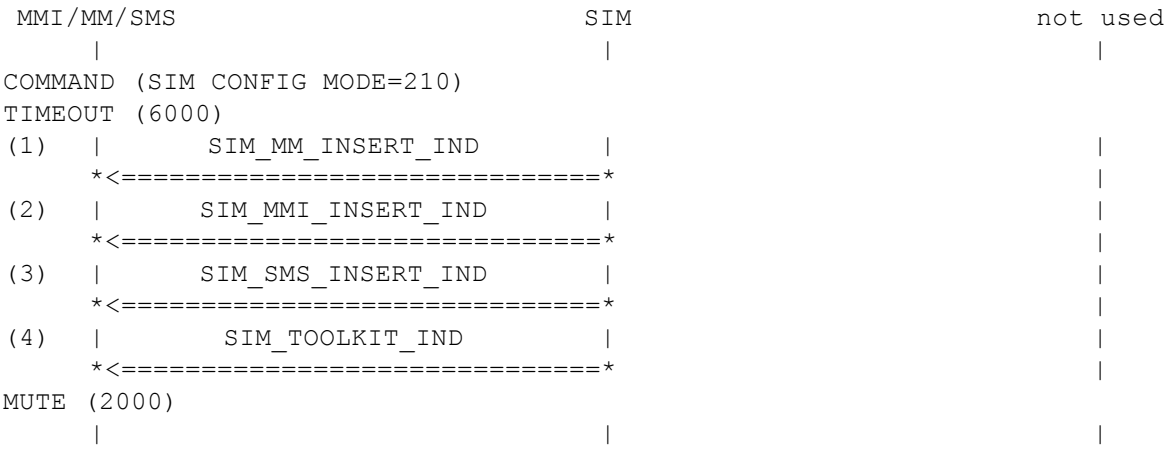
(4)	SIM_MMI_INSERT_IND		
		func	SIM_ADN_ENABLED
		sim_serv	SIM_SERV_PHASE_2_PLUS
		imsi_field	IMSI
		pref_plmn	PREF_PLMN
		phase	PHASE_2_PLUS_SIM
		access_acm	NOT_USED
		access_acmmax	NOT_USED
		access_puct	NOT_USED
(5)	SIM_SMS_INSERT_IND		
		phase	PHASE_2_PLUS_SIM
		tp_mr	TP_MR_1
		mem_cap_avail	MEM_IS_AVAILABLE
		download_sms	DOWNLOAD_SMS_YES
		smsr_mem_cap	SIM_SMSR_DISABLE

History:	10-Mar-2000	FK	Initial
	25-Sep-2002	FK	Adaption to Cause Concept

2.10.2 SIM210: Refresh (Initialization with Full File Change Notification)

Description: The SIM Toolkit requests SIM Initialising with Full File Change Notification. The SIM Entity starts the normal initialization sequence assuming successful CHV1. After the Terminal Response the SIM Toolkit issues a DISPLAY command.

Preamble: SIM200B



Parametrization

Primitive		Parameter	Value
(1)	SIM_MM_INSERT_IND		
		op_mode	OP_TA_SPECIAL
		imsi_field	IMSI
		loc_info	LOC_INFO
		acc_ctrl	ACC_CTRL
		bcch_inf	BCCH_INFO
		kc_n	KC_N
		pref_plmn	PREF_PLMN
		forb_plmn	FORB_PLMN
		phase	PHASE_2_PLUS_SIM
		hplmn	HPLMN_1

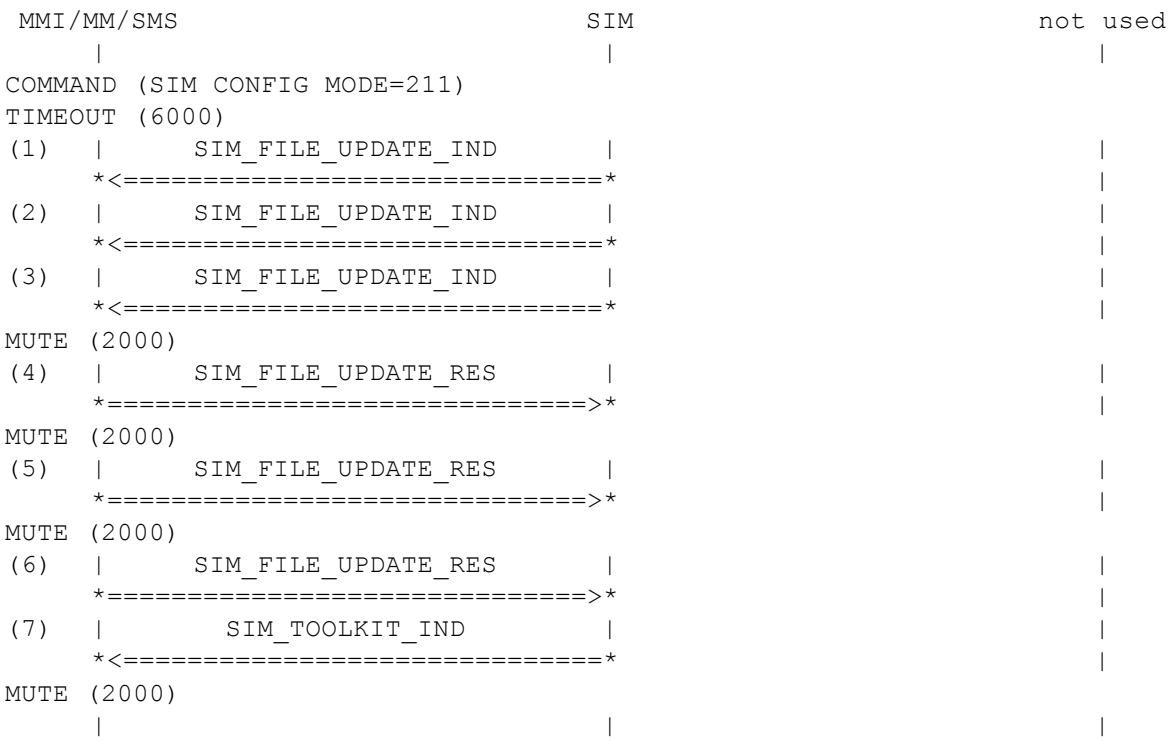
(2)	SIM_MMI_INSERT_IND		
		func	SIM_ADN_ENABLED
		sim_serv	SIM_SERV_PHASE_2_PLUS
		imsi_field	IMSI
		pref_plmn	PREF_PLMN
		phase	PHASE_2_PLUS_SIM
		access_acm	NOT_USED
		access_acmmax	NOT_USED
		access_puct	NOT_USED
(3)	SIM_SMS_INSERT_IND		
		phase	PHASE_2_PLUS_SIM
		tp_mr	TP_MR_1
		mem_cap_avail	MEM_IS_AVAILABLE
		download_sms	DOWNLOAD_SMS_YES
		smsr_mem_cap	SIM_SMSR_DISABLE
(4)	SIM_TOOLKIT_IND		
		stk_cmd	STK_DISPLAY_TEXT_SHORT

History:	13-Mar-2000	FK	Initial
	07-Mar-2003	FK	Timing made independent from TAP settings

2.10.3 SIM211: Refresh (File Change Notification)

Description: The SIM Toolkit issues a File Change Notification. The file list is reduced to the identifiers of the Elementary Files, which are forwarded to MM, SMS and MMI. After getting the response from all 3 Entities the SIM Entity generates a TERMINAL RESPONSE. The SIM card issues a DISPLAY command.

Preamble: SIM200B



Parametrization

Primitive		Parameter	Value
(1)	SIM_FILE_UPDATE_IND		
		val_nr	FL_MODE_211_NR
		file_id	FILE_LIST_MODE_211
(2)	SIM_FILE_UPDATE_IND		
		val_nr	FL_MODE_211_NR
		file_id	FILE_LIST_MODE_211

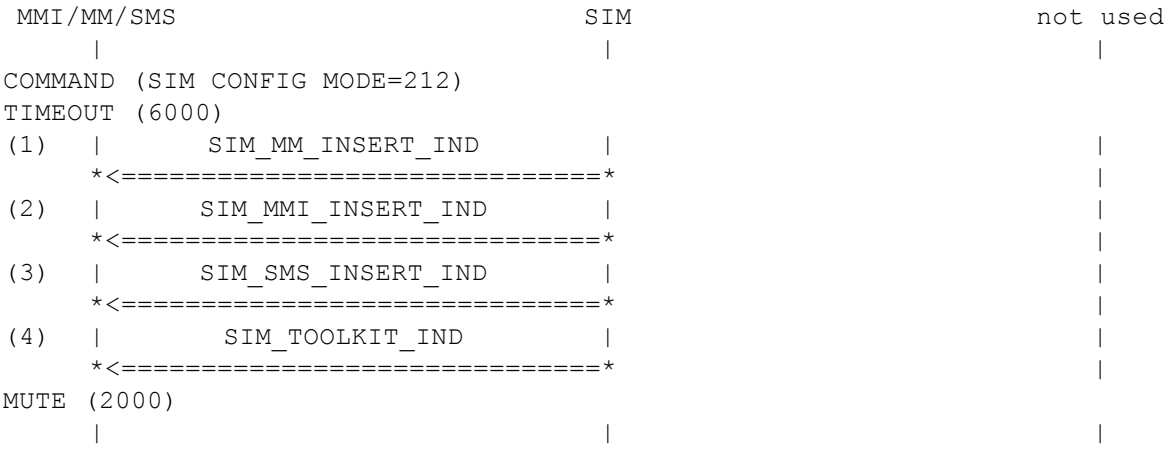
(3)	SIM_FILE_UPDATE_IND		
		val_nr	FL_MODE_211_NR
		file_id	FILE_LIST_MODE_211
(4)	SIM_FILE_UPDATE_RES		
		source	SRC_MMI
		fu_rsc	SIM_FU_SUCCESS
(5)	SIM_FILE_UPDATE_RES		
		source	SRC_SMS
		fu_rsc	SIM_FU_SUCCESS
(6)	SIM_FILE_UPDATE_RES		
		source	SRC_MM
		fu_rsc	SIM_FU_SUCCESS
(7)	SIM_TOOLKIT_IND		
		stk_cmd	STK_DISPLAY_TEXT_SHORT

History:	13-Mar-2000	FK	Initial
	25-Apr-2001	FK	SIM_FILE_UPTDATE_RES, parameter fu_rsc added
	07-Mar-2003	FK	Timing made independent from TAP settings

2.10.4 SIM212: Refresh (Initialization and File Change Notification)

Description: The SIM Toolkit requests SIM Initialising with specific File Change Notification. The SIM Entity starts the normal initialization sequence assuming successful CHV1. After the Terminal Response the SIM Toolkit issues a DISPLAY command.

Preamble: SIM200B



Parametrization

Primitive	Parameter	Value
(1) SIM_MM_INSERT_IND		
	op_mode	OP_TA_SPECIAL
	imsi_field	IMSI
	loc_info	LOC_INFO
	acc_ctrl	ACC_CTRL
	bcch_inf	BCCH_INFO
	kc_n	KC_N
	pref_plmn	PREF_PLMN
	forb_plmn	FORB_PLMN
	phase	PHASE_2_PLUS_SIM
	hplmn	HPLMN_1

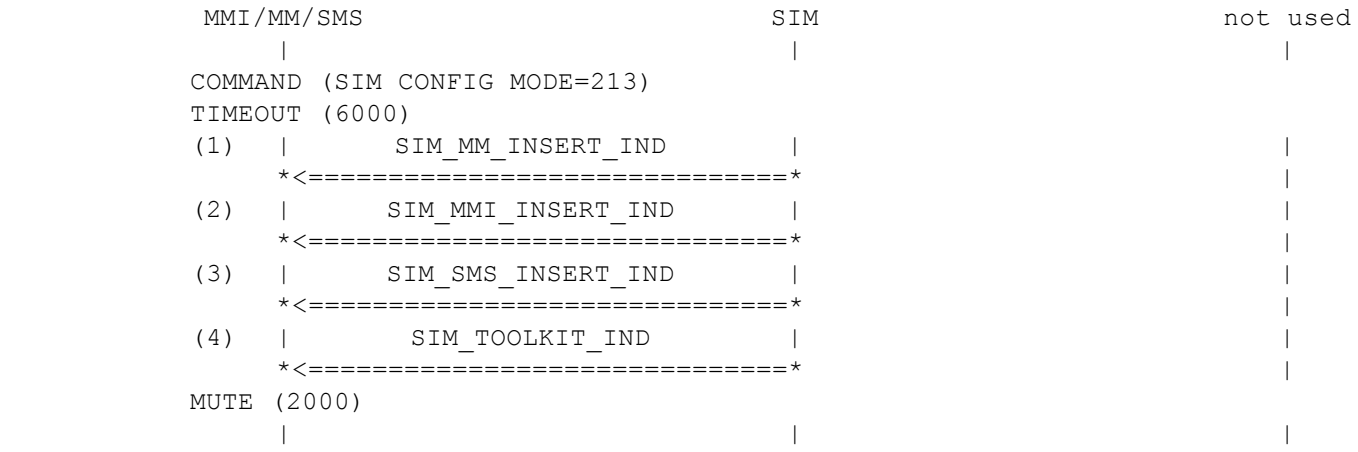
(2)	SIM_MMI_INSERT_IND		
		func	SIM_ADN_ENABLED
		sim_serv	SIM_SERV_PHASE_2_PLUS
		imsi_field	IMSI
		pref_plmn	PREF_PLMN
		phase	PHASE_2_PLUS_SIM
		access_acm	NOT_USED
		access_acmmax	NOT_USED
		access_puct	NOT_USED
(3)	SIM_SMS_INSERT_IND		
		phase	PHASE_2_PLUS_SIM
		tp_mr	TP_MR_1
		mem_cap_avail	MEM_IS_AVAILABLE
		download_sms	DOWNLOAD_SMS_YES
		smsr_mem_cap	SIM_SMSR_DISABLE
(4)	SIM_TOOLKIT_IND		
		stk_cmd	STK_DISPLAY_TEXT_SHORT

History:	13-Mar-2000	FK	Initial
	07-Mar-2003	FK	Timing made independent from TAP settings

2.10.5 SIM213: Refresh (SIM Initialization)

Description: The SIM Toolkit requests SIM Initialising. The SIM Entity starts the normal initialization sequence assuming successful CHV1. After the Terminal Response the SIM Toolkit issues a DISPLAY command.

Preamble: SIM200B



Parametrization

Primitive	Parameter	Value
(1) SIM_MM_INSERT_IND		
	op_mode	OP_TA_SPECIAL
	imsi_field	IMSI
	loc_info	LOC_INFO
	acc_ctrl	ACC_CTRL
	bcch_inf	BCCH_INFO
	kc_n	KC_N
	pref_plmn	PREF_PLMN
	forb_plmn	FORB_PLMN
	phase	PHASE_2_PLUS_SIM
	hplmn	HPLMN_1

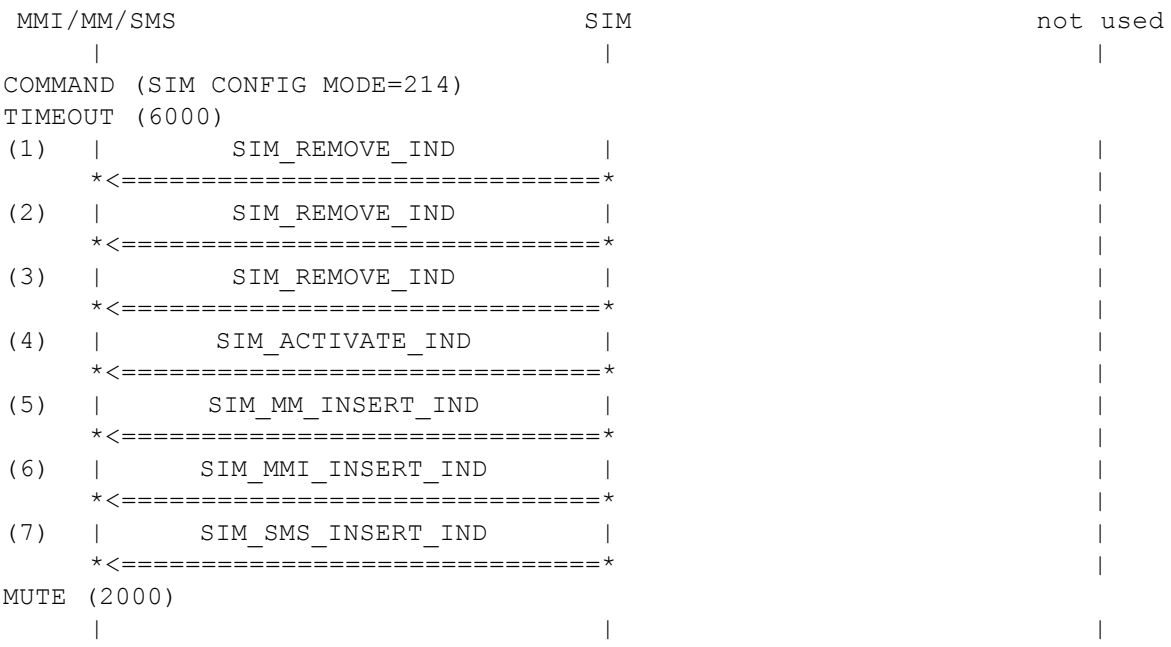
(2)	SIM_MMI_INSERT_IND		
		func	SIM_ADN_ENABLED
		sim_serv	SIM_SERV_PHASE_2_PLUS
		imsi_field	IMSI
		pref_plmn	PREF_PLMN
		phase	PHASE_2_PLUS_SIM
		access_acm	NOT_USED
		access_acmmax	NOT_USED
		access_puct	NOT_USED
(3)	SIM_SMS_INSERT_IND		
		phase	PHASE_2_PLUS_SIM
		tp_mr	TP_MR_1
		mem_cap_avail	MEM_IS_AVAILABLE
		download_sms	DOWNLOAD_SMS_YES
		smsr_mem_cap	SIM_SMSR_DISABLE
(4)	SIM_TOOLKIT_IND		
		stk_cmd	STK_DISPLAY_TEXT_SHORT

History:	13-Mar-2000	FK	Initial
	07-Mar-2003	FK	Timing made independent from TAP settings

2.10.6 SIM214: Refresh (SIM Reset), PIN disabled

Description: The SIM Toolkit requests SIM Reset. The SIM Entity sends a SIM_REMOVE_IND to the MM, SMS and MMI Entity. At the end of the reset an SIM_ACTIVATE_IND is send to MMI. The SIM initialisation is completed, because CHV1 is disabled.

Preamble: SIM200B



Parametrization

Primitive		Parameter	Value
(1)	SIM_REMOVE_IND		
		cause	SIM_NO_ERROR
(2)	SIM_REMOVE_IND		
		cause	SIM_NO_ERROR
(3)	SIM_REMOVE_IND		
		cause	SIM_NO_ERROR

(4) SIM_ACTIVATE_IND

cause	SIM_NO_ERROR
pin_cnt	PIN_3_ATTEMPTS
puk_cnt	PUK_10_ATTEMPTS
pin2_cnt	PIN_3_ATTEMPTS
puk2_cnt	PUK_10_ATTEMPTS
ec_code	EC_CODES
pref_lang	LP_CODES
atr	DISPLAY_ONLY

(5) SIM_MM_INSERT_IND

op_mode	OP_TA_SPECIAL
imsi_field	IMSI
loc_info	LOC_INFO
acc_ctrl	ACC_CTRL
bcch_inf	BCCH_INFO
kc_n	KC_N
pref_plmn	PREF_PLMN
forb_plmn	FORB_PLMN
phase	PHASE_2_PLUS_SIM
hplmn	HPLMN_1

(6) SIM_MMI_INSERT_IND

func	SIM_ADN_ENABLED
sim_serv	SIM_SERV_PHASE_2_PLUS
imsi_field	IMSI
pref_plmn	PREF_PLMN
phase	PHASE_2_PLUS_SIM
access_acm	NOT_USED
access_acmmax	NOT_USED
access_puct	NOT_USED

(7) SIM_SMS_INSERT_IND

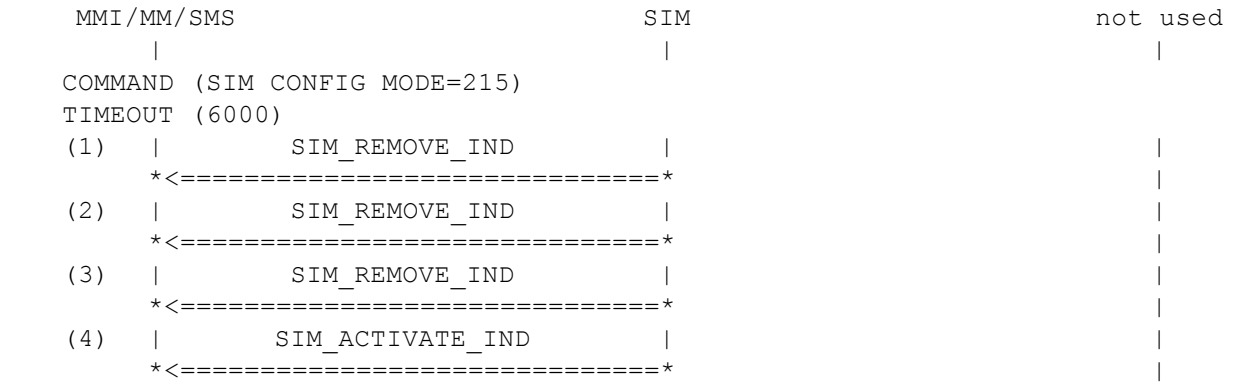
phase	PHASE_2_PLUS_SIM
tp_mr	TP_MR_1
mem_cap_avail	MEM_IS_AVAILABLE
download_sms	DOWNLOAD_SMS_YES
smsr_mem_cap	SIM_SMSR_DISABLE

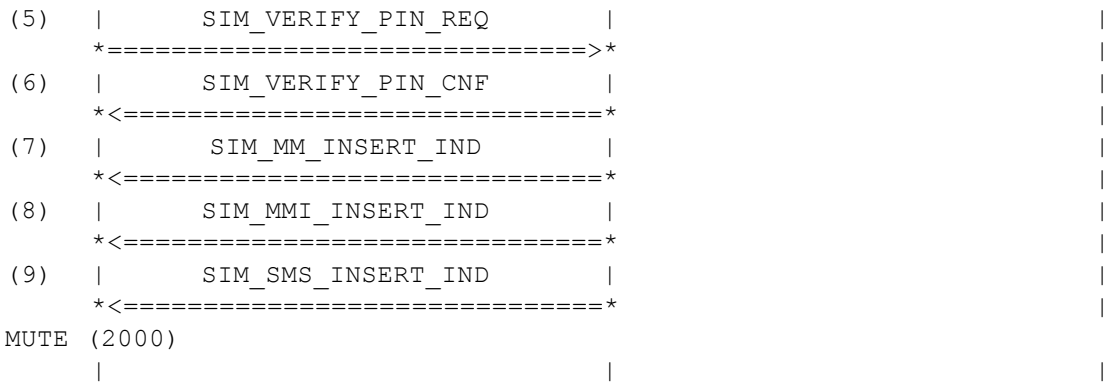
History:	15-Mar-2000	FK	Initial
	25-Sep-2002	FK	Adaption to Cause Concept
	07-Mar-2003	FK	Timing made independent from TAP settings

2.10.7 SIM215: Refresh (SIM Reset), PIN enabled afterwards

Description: The SIM Toolkit requests SIM Reset. The SIM Entity sends a SIM_REMOVE_IND to the MM, SMS and MMI Entity. At the end of the reset an SIM_ACTIVATE_IND is send to MMI. The SIM initialisation is completed, after CHV1 is verified

Preamble: SIM200B





Parametrization

Primitive	Parameter	Value
(1) SIM_REMOVE_IND		
	cause	SIM_NO_ERROR
(2) SIM_REMOVE_IND		
	cause	SIM_NO_ERROR
(3) SIM_REMOVE_IND		
	cause	SIM_NO_ERROR
(4) SIM_ACTIVATE_IND		
	cause	SIM_CAUSE_PIN1_EXPECT
	pin_cnt	PIN_3_ATTEMPTS
	puk_cnt	PUK_10_ATTEMPTS
	pin2_cnt	PIN_3_ATTEMPTS
	puk2_cnt	PUK_10_ATTEMPTS
	ec_code	EC_CODES
	pref_lang	LP_CODES
	atr	DISPLAY_ONLY
(5) SIM_VERIFY_PIN_REQ		
	source	SRC_MMI
	pin	PIN_1_VALUE
	pin_id	PHASE_2_PIN_1
(6) SIM_VERIFY_PIN_CNF		
	cause	SIM_NO_ERROR
	pin_id	PHASE_2_PIN_1
	pin_cnt	PIN_3_ATTEMPTS
	puk_cnt	NOT_USED
	pin2_cnt	NOT_USED
	puk2_cnt	NOT_USED
(7) SIM_MM_INSERT_IND		
	op_mode	OP_TA_SPECIAL
	imsi_field	IMSI
	loc_info	LOC_INFO
	acc_ctrl	ACC_CTRL
	bcch_inf	BCCH_INFO
	kc_n	KC_N
	pref_plmn	PREF_PLMN
	forb_plmn	FORB_PLMN
	phase	PHASE_2_PLUS_SIM
	hplmn	HPLMN_1

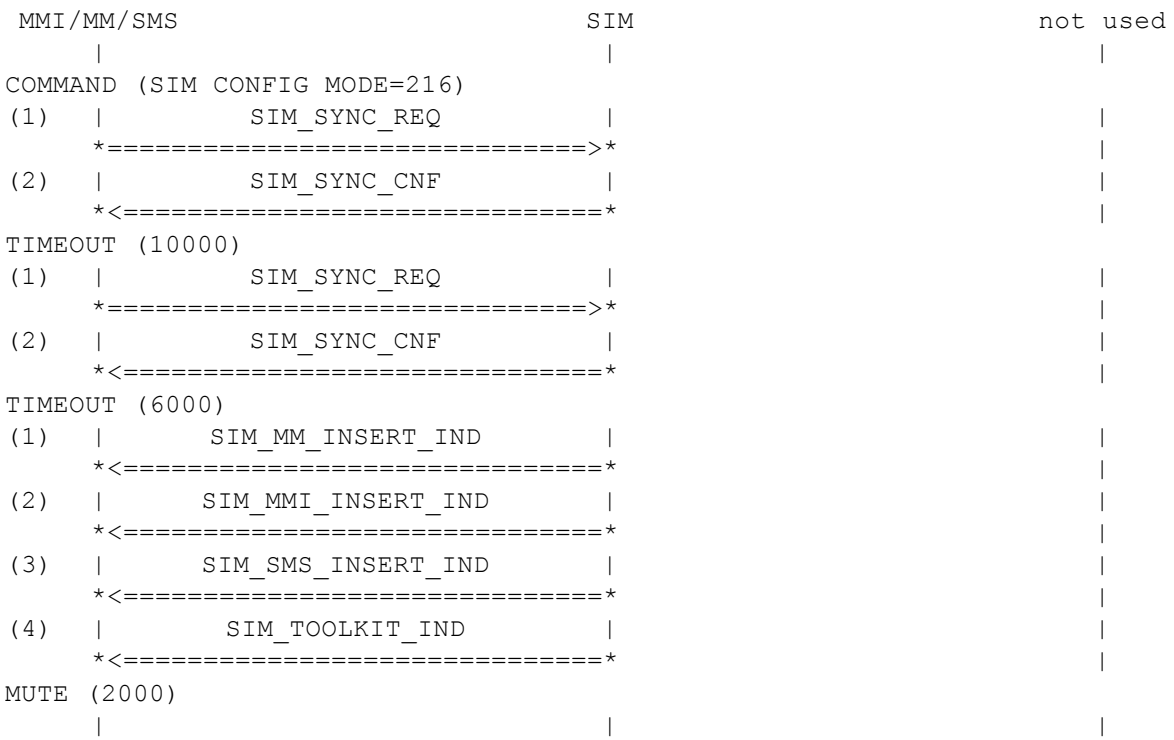
(8)	SIM_MMI_INSERT_IND		
		func	SIM_ADN_ENABLED
		sim_serv	SIM_SERV_PHASE_2_PLUS
		imsi_field	IMSI
		pref_plmn	PREF_PLMN
		phase	PHASE_2_PLUS_SIM
		access_acm	NOT_USED
		access_acmmax	NOT_USED
		access_puct	NOT_USED
(9)	SIM_SMS_INSERT_IND		
		phase	PHASE_2_PLUS_SIM
		tp_mr	TP_MR_1
		mem_cap_avail	MEM_IS_AVAILABLE
		download_sms	DOWNLOAD_SMS_YES
		smsr_mem_cap	SIM_SMSR_DISABLE

History:	15-Mar-2000	FK	Initial
	25-Sep-2002	FK	Adaption to Cause Concept
	07-Mar-2003	FK	Timing made independent from TAP settings

2.10.8 SIM216: Refresh (Initialization), Interworking with Call Control

Description: The SIM Toolkit requests SIM Initialisation. Due to an active call the SIM Entity rejects the command. The SIM card repeats the command with every poll. After releasing the call the SIM Entity responds to the command and starts the normal initialization sequence assuming successful CHV1. After the Terminal Response the SIM Toolkit issues a DISPLAY command.

Preamble: SIM200B



Parametrization

Primitive		Parameter	Value
(1)	SIM_SYNC_REQ		
		synccs	SYNC_START_CALL
(2)	SIM_SYNC_CNF		
		cause	NOT_USED
(3)	SIM_SYNC_REQ		
		synccs	SYNC_STOP_CALL

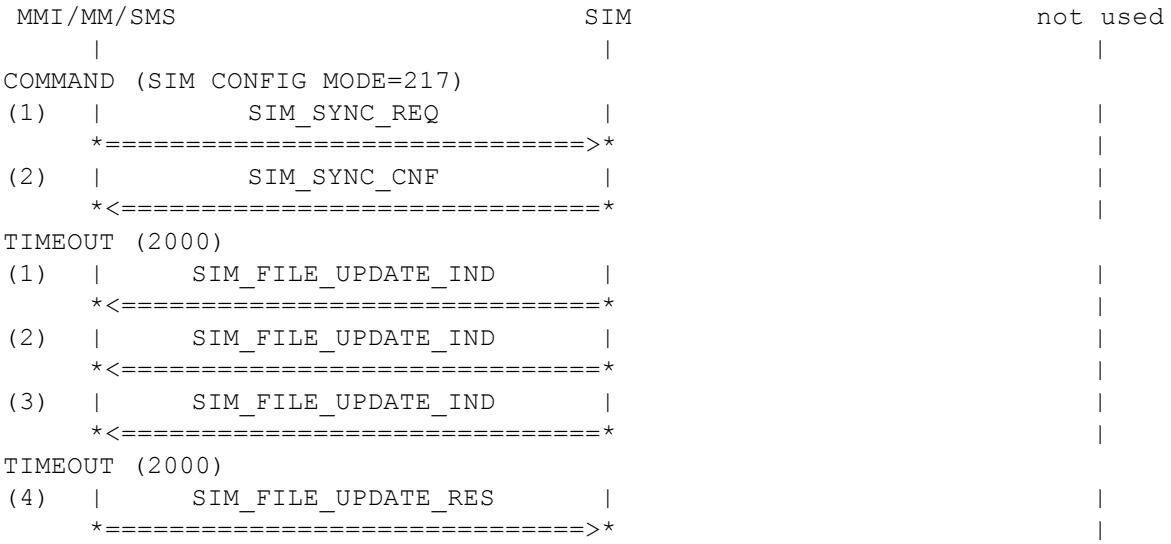
(4) SIM_SYNC_CNF		
	cause	NOT_USED
(5) SIM_MM_INSERT_IND		
	op_mode	OP_TA_SPECIAL
	imsi_field	IMSI
	loc_info	LOC_INFO
	acc_ctrl	ACC_CTRL
	bcch_inf	BCCH_INFO
	kc_n	KC_N
	pref_plmn	PREF_PLMN
	forb_plmn	FORB_PLMN
	phase	PHASE_2_PLUS_SIM
	hplmn	HPLMN_1
(6) SIM_MMI_INSERT_IND		
	func	SIM_ADN_ENABLED
	sim_serv	SIM_SERV_PHASE_2_PLUS
	imsi_field	IMSI
	pref_plmn	PREF_PLMN
	phase	PHASE_2_PLUS_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED
(7) SIM_SMS_INSERT_IND		
	phase	PHASE_2_PLUS_SIM
	tp_mr	TP_MR_1
	mem_cap_avail	MEM_IS_AVAILABLE
	download_sms	DOWNLOAD_SMS_YES
	smsr_mem_cap	SIM_SMSR_DISABLE
(8) SIM_TOOLKIT_IND		
	stk_cmd	STK_DISPLAY_TEXT_SHORT

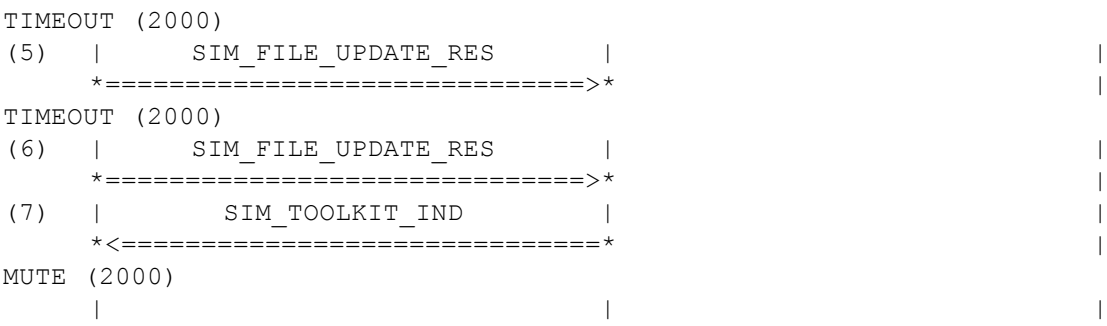
History:	14-Mar-2000	FK	Initial
	25-Sep-2002	FK	Adaption to Cause Concept
	07-Mar-2003	FK	Timing made independent from TAP settings

2.10.9 SIM217: Refresh (File Change Notification), Interworking with Call Control

Description: The SIM Toolkit issues a File Change Notification. An active call does not interfer with this command, therefore the SIM Entity reeacts as in test case 211. After the Terminal Response the SIM Toolkit issues a DISPLAY command.

Preamble: SIM200B





Parametrization

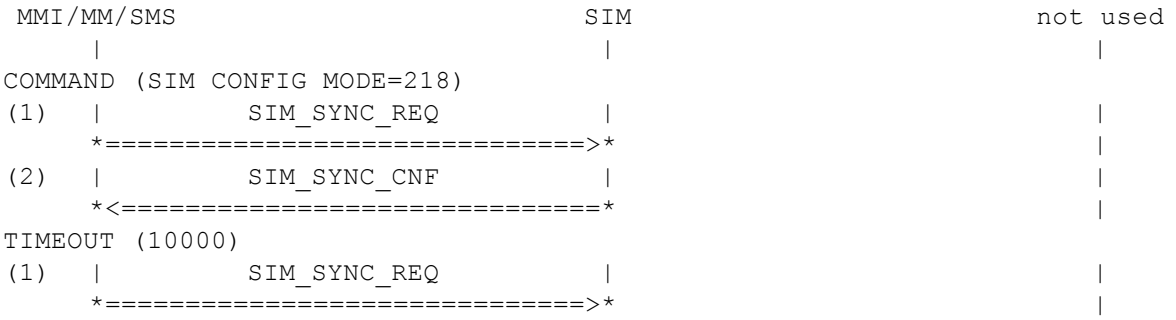
Primitive	Parameter	Value
(1) SIM_SYNC_REQ		
	synccs	SYNC_START_CALL
(2) SIM_SYNC_CNF		
	cause	NOT_USED
(3) SIM_FILE_UPDATE_IND		
	val_nr	FL_MODE_211_NR
	file_id	FILE_LIST_MODE_211
(4) SIM_FILE_UPDATE_IND		
	val_nr	FL_MODE_211_NR
	file_id	FILE_LIST_MODE_211
(5) SIM_FILE_UPDATE_IND		
	val_nr	FL_MODE_211_NR
	file_id	FILE_LIST_MODE_211
(6) SIM_FILE_UPDATE_RES		
	source	SRC_MMI
	fu_rsc	SIM_FU_SUCCESS
(7) SIM_FILE_UPDATE_RES		
	source	SRC_SMS
	fu_rsc	SIM_FU_SUCCESS
(8) SIM_FILE_UPDATE_RES		
	source	SRC_MM
	fu_rsc	SIM_FU_SUCCESS
(9) SIM_TOOLKIT_IND		
	stk_cmd	STK_DISPLAY_TEXT_SHORT

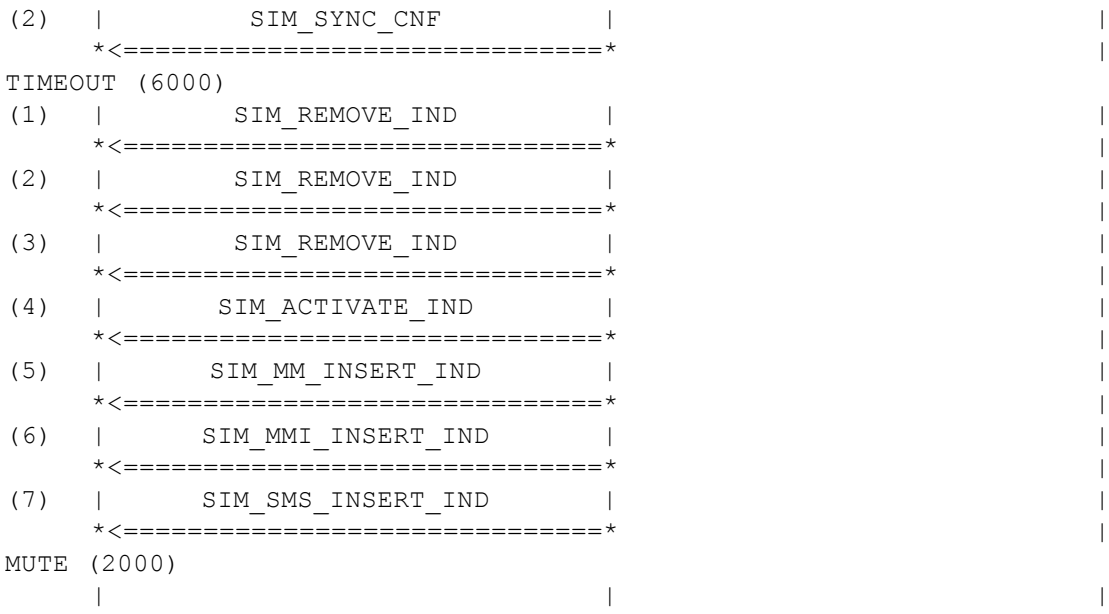
History:	15-Mar-2000	FK	Initial
	25-Apr-2001	FK	SIM_FILE_UPTDATE_RES, parameter fu_rsc added

2.10.10 SIM218: Refresh (Reset), Interworking with Call Control

Description: The SIM Toolkit requests SIM Reset. Due to an active call the SIM Entity rejects the command. The SIM card repeats the command with every poll. After releasing the call the SIM Entity responds to the command and starts the SIM reset procedure as in test case 214.

Preamble: SIM200B





Parametrization

Primitive	Parameter	Value
(1) SIM_SYNC_REQ		
	synccs	SYNC_START_CALL
(2) SIM_SYNC_CNF		
	cause	NOT_USED
(3) SIM_SYNC_REQ		
	synccs	SYNC_STOP_CALL
(4) SIM_SYNC_CNF		
	cause	NOT_USED
(5) SIM_REMOVE_IND		
	cause	SIM_NO_ERROR
(6) SIM_REMOVE_IND		
	cause	SIM_NO_ERROR
(7) SIM_REMOVE_IND		
	cause	SIM_NO_ERROR
(8) SIM_ACTIVATE_IND		
	cause	SIM_NO_ERROR
	pin_cnt	PIN_3_ATTEMPTS
	puk_cnt	PUK_10_ATTEMPTS
	pin2_cnt	PIN_3_ATTEMPTS
	puk2_cnt	PUK_10_ATTEMPTS
	ec_code	EC_CODES
	pref_lang	LP_CODES
	atr	DISPLAY_ONLY
(9) SIM_MM_INSERT_IND		
	op_mode	OP_TA_SPECIAL
	imsi_field	IMSI
	loc_info	LOC_INFO
	acc_ctrl	ACC_CTRL
	bcch_inf	BCCH_INFO
	kc_n	KC_N
	pref_plmn	PREF_PLMN
	forb_plmn	FORB_PLMN
	phase	PHASE_2_PLUS_SIM
	hplmn	HPLMN_1

(10) SIM_MMI_INSERT_IND

func	SIM_ADN_ENABLED
sim_serv	SIM_SERV_PHASE_2_PLUS
imsi_field	IMSI
pref_plmn	PREF_PLMN
phase	PHASE_2_PLUS_SIM
access_acm	NOT_USED
access_acmmax	NOT_USED
access_puct	NOT_USED

(11) SIM_SMS_INSERT_IND

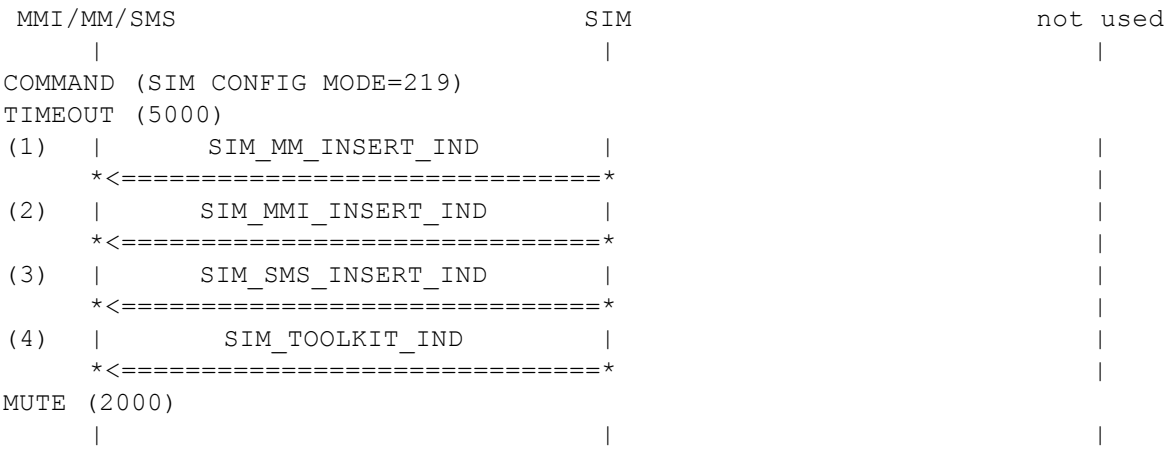
phase	PHASE_2_PLUS_SIM
tp_mr	TP_MR_1
mem_cap_avail	MEM_IS_AVAILABLE
download_sms	DOWNLOAD_SMS_YES
smsr_mem_cap	SIM_SMSR_DISABLE

History:			
	15-Mar-2000	FK	Initial
	25-Sep-2002	FK	Adaption to Cause Concept
	07-Mar-2003	FK	Timing made independent from TAP settings

2.10.11 SIM219: Refresh (File Change Notification with SIM Service Table Update)

Description: The SIM Toolkit issues a File Change Notification including the file EF(SST). The SIM Entity finds EF(SST) in the list which may indicate a Service Change, therefore it starts the full SIM initialisation procedure. On Completion a TERMINAL RESPONSE with result code 3 (Refresh performed with additonal EFs read) is generated. The SIM card issues a DISPLAY command.

Preamble: SIM200B



Parametrization

Primitive	Parameter	Value
(1) SIM_MM_INSERT_IND		
	op_mode	OP_TA_SPECIAL
	imsi_field	IMSI
	loc_info	LOC_INFO
	acc_ctrl	ACC_CTRL
	bcch_inf	BCCH_INFO
	kc_n	KC_N
	pref_plmn	PREF_PLMN
	forb_plmn	FORB_PLMN
	phase	PHASE_2_PLUS_SIM
	hplmn	HPLMN_1

(2) SIM_MMI_INSERT_IND

func	SIM_ADN_ENABLED
sim_serv	SIM_SERV_PHASE_2_PLUS_X
imsi_field	IMSI
pref_plmn	PREF_PLMN
phase	PHASE_2_PLUS_SIM
access_acm	NOT_USED
access_acmmax	NOT_USED
access_puct	NOT_USED

(3) SIM_SMS_INSERT_IND

phase	PHASE_2_PLUS_SIM
tp_mr	TP_MR_1
mem_cap_avail	MEM_IS_AVAILABLE
download_sms	DOWNLOAD_SMS_YES
smsr_mem_cap	SIM_SMSR_DISABLE

(4) SIM_TOOLKIT_IND

stk_cmd	STK_DISPLAY_TEXT_SHORT

History:	28-Mar-2000	FK	Initial
	07-Mar-2003	FK	Timing made independent from TAP settings

2.11 SIM Toolkit – SAT class e

2.11.1 SIM300: Open Channel immediately on transport layer level. Variant B with timer activated.

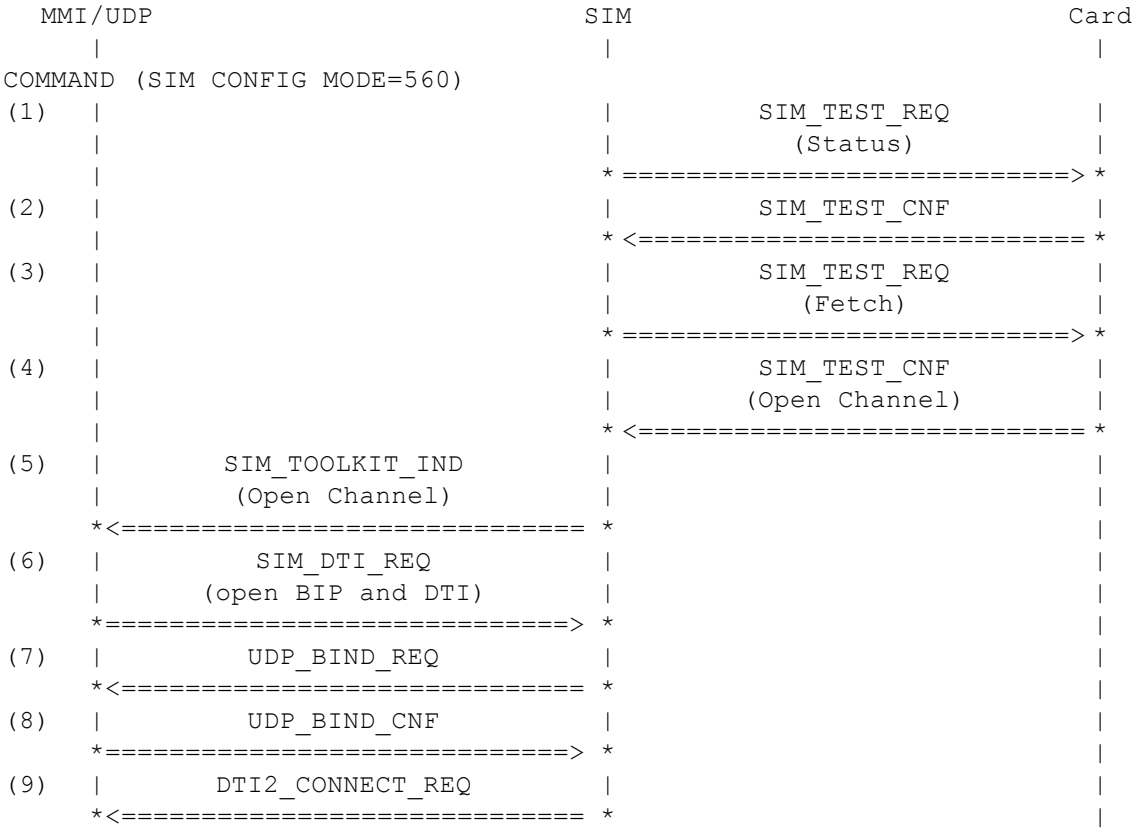
Description:

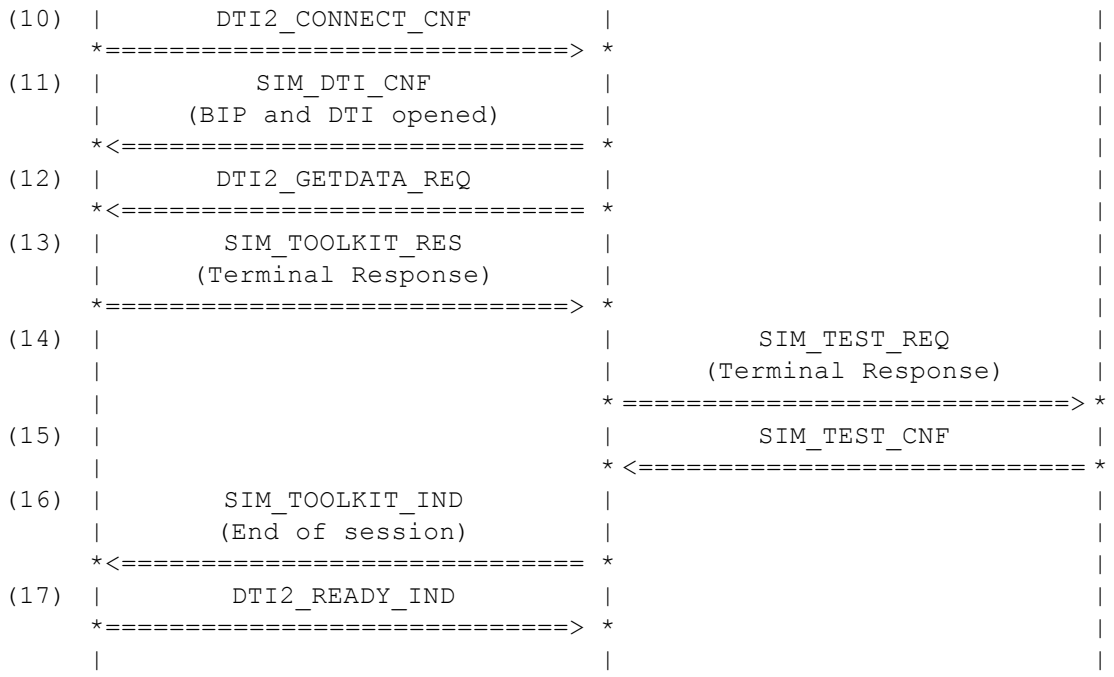
Open bearer independent protocol (BIP) channel to UDP. Immedaite establishment is requested. **NOTE:** In case <B> the timer for the handling of data transmission has been activated.

Variants: <A>...<B>

Preamble:

SIM200F





Parametrization

Primitive	Parameter	Value
(1) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_STATUS
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STATUS
	stk_cmd	EMPTY_STK_CMD
(2) SIM_TEST_CNF		
	sw1	SW1_SUCCESS_EXTRA_INF
	sw2	LE_STK_OPEN_CHANNEL_IM_UDP
	stk_cmd	SIM_STATUS_STK
(3) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_FETCH
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STK_OPEN_CHANNEL_IM_UDP
	stk_cmd	EMPTY_STK_CMD
(4) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
	stk_cmd	STK_OPEN_CHANNEL_IM_UDP
(5) SIM_TOOLKIT_IND		
	stk_cmd	STK_OPEN_CHANNEL_IM_UDP

(6)	SIM_DTI_REQ		
		link_id	LINK_ID_UDP
		dti_conn	SIM_BIP_AND_DTI_OPEN
		bip_ch_id	BIP_CH_ID_UDP
		con_type	SIM_CON_TYPE_UDP
		dti_direction	SEND_REQUESTS
		entity_name	ENTITY_UDP
		local_ip	SIM_IP_LOCAL_DYNAMIC
		destination_ip	DESTINATION_IP
		destination_port	DESTINATION_PORT
		general_result	RSLT_PERF_SUCCESS
		add_info_result	ADD_NO_CAUSE
	<A>	release_time	SIM_NO_AUTO_RELEASE
	<B>	release_time	SIM_AUTO_REL_TIME
(7)	UDP_BIND_REQ		
		port	UDP_AUTOASSIGN_PORT
(8)	UDP_BIND_CNF		
		port	UDP_SRC_PORT
		err	UDP_BIND_NOERROR
(9)	DTI2_CONNECT_REQ		
		link_id	LINK_ID_UDP
		version	DTI_VERSION_10
(10)	DTI2_CONNECT_CNF		
		link_id	LINK_ID_UDP
		version	DTI_VERSION_10
(11)	SIM_DTI_CNF		
		link_id	LINK_ID_UDP
		dti_conn	SIM_BIP_AND_DTI_OPEN_RES
		bip_ch_id	BIP_CH_ID_UDP
(12)	DTI2_GETDATA_REQ		
		link_id	LINK_ID_UDP
(13)	SIM_TOOLKIT_RES		
		stk_cmd	STK_TERM_RESP_IM_UDP
(14)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_TERMINAL_RESPONSE
		p1	P1_DUMMY
		p2	P2_DUMMY
		le	LE_STK_TERM_RESP_IM_UDP
		stk_cmd	STK_TERM_RESP_IM_UDP
(15)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS
		sw2	SW2_NORMAL
		stk_cmd	EMPTY_STK_CMD
(16)	SIM_TOOLKIT_IND		
		stk_cmd	EMPTY_STK_CMD
(17)	DTI2_READY_IND		
		link_id	LINK_ID_UDP

History:			
	24-Apr-2002	STW	Initial
	25-Sept-2002	JK	conversion from DTI to DTI2 interface

2.11.2 SIM301: Open Channel immediately on bearer level. Variant C and D with timer activated.

Description:

Open bearer independent protocol (BIP) channel to
<A> SNDCP and
<B> L2R.

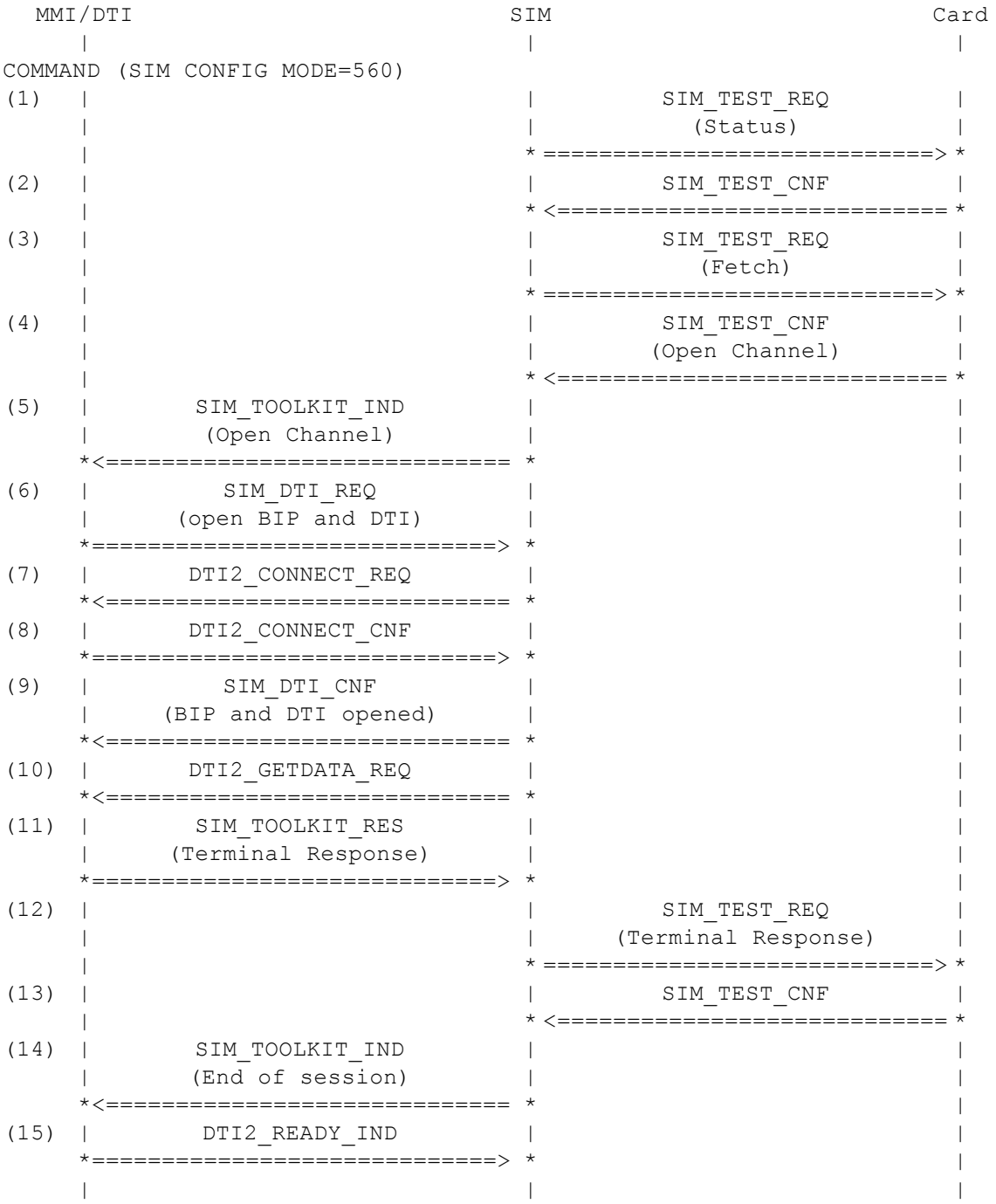
Immediate establishment is requested.

NOTE: In cases <C> and <D> the timer for the handling of data transmission has been activated.

Variants: <A>...<D>

Preamble:

SIM200F



Parametrization

Primitive	Parameter	Value
(18) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_STATUS
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STATUS
	stk_cmd	EMPTY_STK_CMD
(19) SIM_TEST_CNF		
	sw1	SW1_SUCCESS_EXTRA_INF
<A>	sw2	LE_STK_OPEN_CHANNEL_IM_SNDCP
<B>	sw2	LE_STK_OPEN_CHANNEL_IM_L2R
<C>	sw2	LE_STK_OPEN_CHANNEL_IM_SNDCP
<D>	sw2	LE_STK_OPEN_CHANNEL_IM_L2R
	stk_cmd	SIM_STATUS_STK
(20) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_FETCH
	p1	P1_DUMMY
	p2	P2_DUMMY
<A>	le	LE_STK_OPEN_CHANNEL_IM_SNDCP
<B>	le	LE_STK_OPEN_CHANNEL_IM_L2R
<C>	le	LE_STK_OPEN_CHANNEL_IM_SNDCP
<D>	le	LE_STK_OPEN_CHANNEL_IM_L2R
	stk_cmd	EMPTY_STK_CMD
(21) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
<A>	stk_cmd	STK_OPEN_CHANNEL_IM_SNDCP
<B>	stk_cmd	STK_OPEN_CHANNEL_IM_L2R
<C>	stk_cmd	STK_OPEN_CHANNEL_IM_SNDCP
<D>	stk_cmd	STK_OPEN_CHANNEL_IM_L2R
(22) SIM_TOOLKIT_IND		
<A>	stk_cmd	STK_OPEN_CHANNEL_IM_SNDCP
<B>	stk_cmd	STK_OPEN_CHANNEL_IM_L2R
<C>	stk_cmd	STK_OPEN_CHANNEL_IM_SNDCP
<D>	stk_cmd	STK_OPEN_CHANNEL_IM_L2R

(23) SIM_DTI_REQ

<A>	link_id	LINK_ID_SNDCP
<B>	link_id	LINK_ID_L2R
<C>	link_id	LINK_ID_SNDCP
<D>	link_id	LINK_ID_L2R
	dti_conn	SIM_BIP_AND_DTI_OPEN
<A>	bip_ch_id	BIP_CH_ID_SNDCP
<B>	bip_ch_id	BIP_CH_ID_L2R
<C>	bip_ch_id	BIP_CH_ID_SNDCP
<D>	bip_ch_id	BIP_CH_ID_L2R
<A>	con_type	SIM_CON_TYPE_IP
<B>	con_type	SIM_CON_TYPE_SERIAL
<C>	con_type	SIM_CON_TYPE_IP
<D>	con_type	SIM_CON_TYPE_SERIAL
	dti_direction	SEND_REQUESTS
<A>	entity_name	ENTITY_SNDCP
<B>	entity_name	ENTITY_L2R
<C>	entity_name	ENTITY_SNDCP
<D>	entity_name	ENTITY_L2R
	local_ip	SIM_IP_LOCAL_DYNAMIC
	destination_ip	DESTINATION_IP_DUMMY
	destination_port	DESTINATION_PORT_DUMMY
	general_result	RSLT_PERF_SUCCESS
	add_info_result	ADD_NO_CAUSE
<A>	release_time	SIM_NO_AUTO_RELEASE
<B>	release_time	SIM_NO_AUTO_RELEASE
<C>	release_time	SIM_AUTO_REL_TIME
<D>	release_time	SIM_AUTO_REL_TIME

(24) DTI2_CONNECT_REQ

<A>	link_id	LINK_ID_SNDCP
<B>	link_id	LINK_ID_L2R
<C>	link_id	LINK_ID_SNDCP
<D>	link_id	LINK_ID_L2R
	version	DTI_VERSION_10

(25) DTI2_CONNECT_CNF

<A>	link_id	LINK_ID_SNDCP
<B>	link_id	LINK_ID_L2R
<C>	link_id	LINK_ID_SNDCP
<D>	link_id	LINK_ID_L2R
	version	DTI_VERSION_10

(26) SIM_DTI_CNF

<A>	link_id	LINK_ID_SNDCP
<B>	link_id	LINK_ID_L2R
<C>	link_id	LINK_ID_SNDCP
<D>	link_id	LINK_ID_L2R
	dti_conn	SIM_BIP_AND_DTI_OPEN_RES
<A>	bip_ch_id	BIP_CH_ID_SNDCP
<B>	bip_ch_id	BIP_CH_ID_L2R
<C>	bip_ch_id	BIP_CH_ID_SNDCP
<D>	bip_ch_id	BIP_CH_ID_L2R

(27) DTI2_GETDATA_REQ

<A>	link_id	LINK_ID_SNDCP
<B>	link_id	LINK_ID_L2R
<C>	link_id	LINK_ID_SNDCP
<D>	link_id	LINK_ID_L2R

(28) SIM_TOOLKIT_RES		
<A>	stk_cmd	STK_TERM_RESP_IM_SNDCP
<B>	stk_cmd	STK_TERM_RESP_IM_L2R
<C>	stk_cmd	STK_TERM_RESP_IM_SNDCP
<D>	stk_cmd	STK_TERM_RESP_IM_L2R
(29) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_TERMINAL_RESPONSE
	p1	P1_DUMMY
	p2	P2_DUMMY
<A>	le	LE_STK_TERM_RESP_IM_SNDCP
<B>	le	LE_STK_TERM_RESP_IM_L2R
<C>	le	LE_STK_TERM_RESP_IM_SNDCP
<D>	le	LE_STK_TERM_RESP_IM_L2R
<A>	stk_cmd	STK_TERM_RESP_IM_SNDCP
<B>	stk_cmd	STK_TERM_RESP_IM_L2R
<C>	stk_cmd	STK_TERM_RESP_IM_SNDCP
<D>	stk_cmd	STK_TERM_RESP_IM_L2R
(30) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
	stk_cmd	EMPTY_STK_CMD
(31) SIM_TOOLKIT_IND		
	stk_cmd	EMPTY_STK_CMD
(32) DTI2_READY_IND		
<A>	link_id	LINK_ID_SNDCP
<B>	link_id	LINK_ID_L2R
<C>	link_id	LINK_ID_SNDCP
<D>	link_id	LINK_ID_L2R

History:	25-Apr-2002	STW	Initial
	25-Sept-2002	JK	conversion from DTI to DTI2 interface

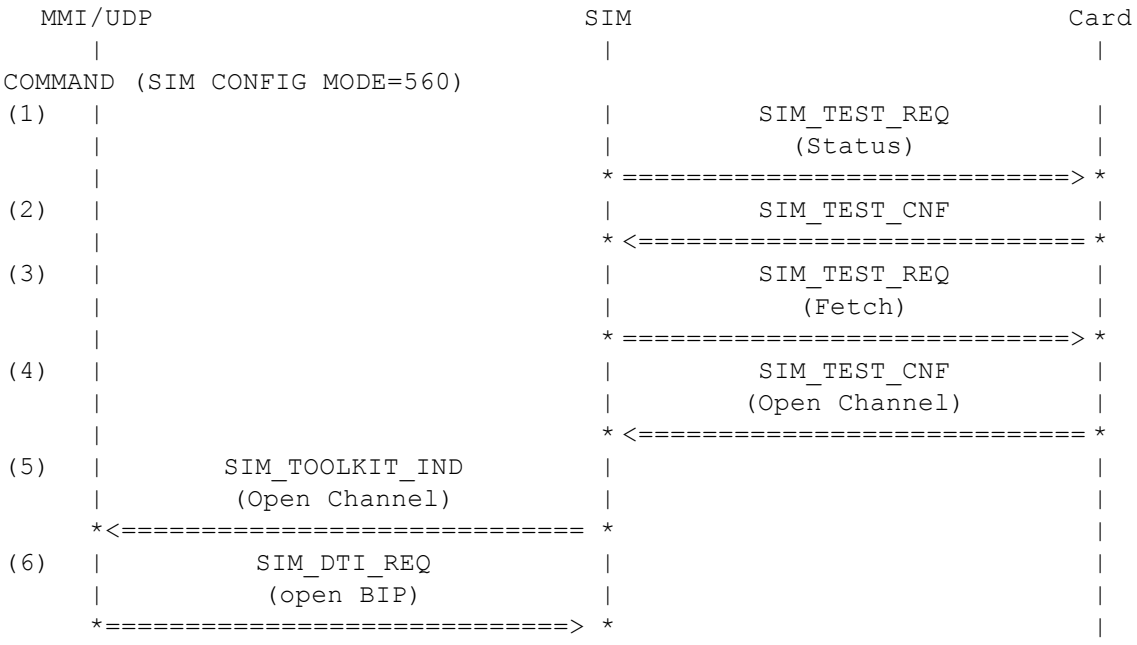
2.11.3 SIM302: Open Channel on demand on transport layer level

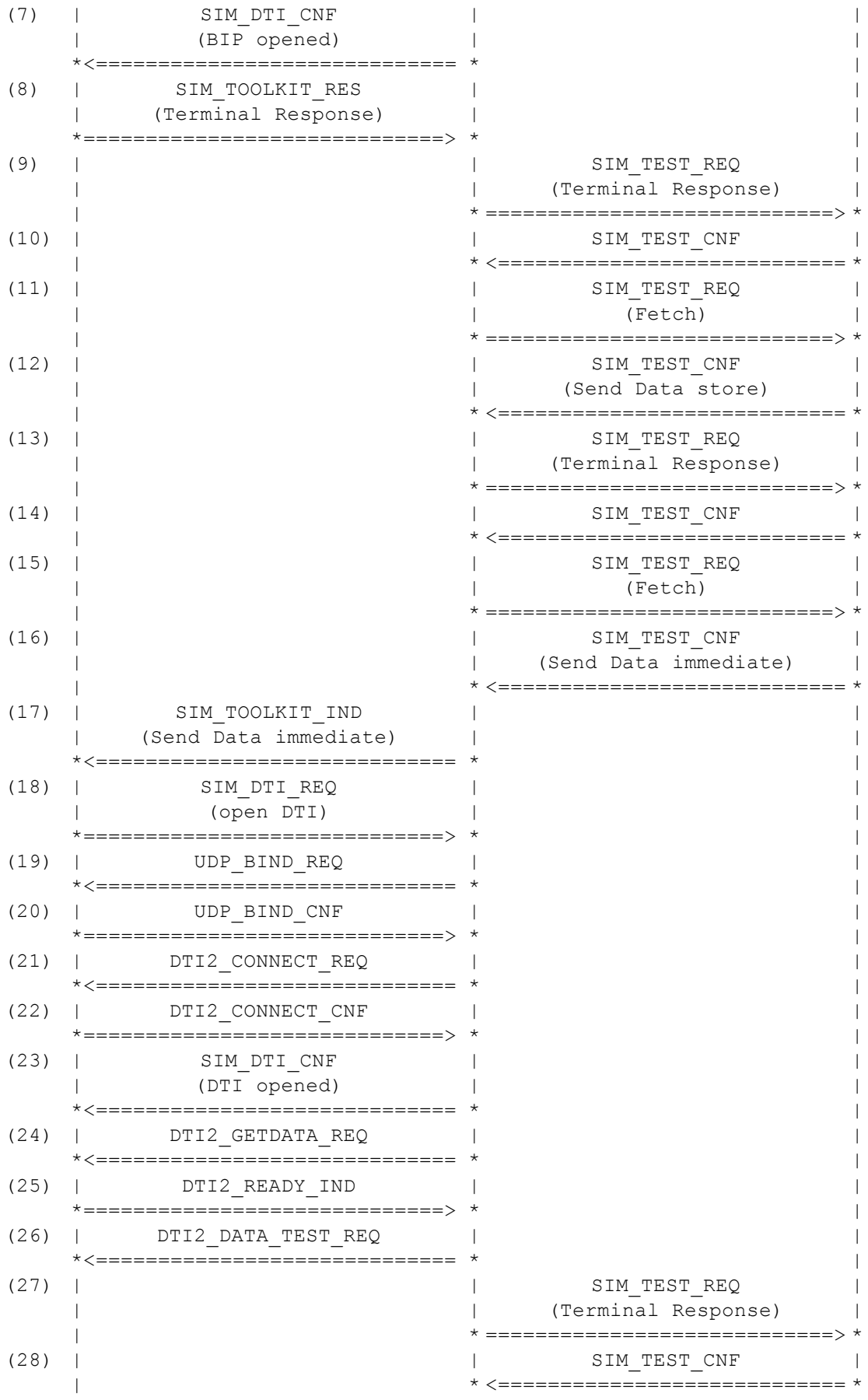
Description:

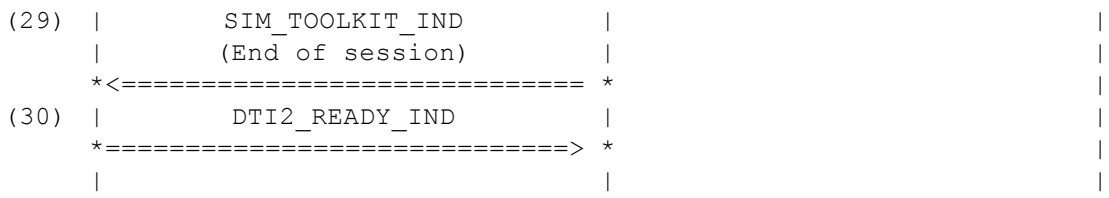
Open bearer independent protocol (BIP) channel to UDP. On demand establishment is requested.

Preamble:

SIM200F




(7)
SIM_DTI_CNF
(BIP opened)
(8)
SIM_TOOLKIT_RES
(Terminal Response)
(9)
SIM_TEST_REQ
(Terminal Response)
(10)
SIM_TEST_CNF
(11)
SIM_TEST_REQ
(Fetch)
(12)
SIM_TEST_CNF
(Send Data store)
(13)
SIM_TEST_REQ
(Terminal Response)
(14)
SIM_TEST_CNF
(15)
SIM_TEST_REQ
(Fetch)
(16)
SIM_TEST_CNF
(Send Data immediate)
(17)
SIM_TOOLKIT_IND
(Send Data immediate)
(18)
SIM_DTI_REQ
(open DTI)
(19)
UDP_BIND_REQ
(20)
UDP_BIND_CNF
(21)
DTI2_CONNECT_REQ
(22)
DTI2_CONNECT_CNF
(23)
SIM_DTI_CNF
(DTI opened)
(24)
DTI2_GETDATA_REQ
(25)
DTI2_READY_IND
(26)
DTI2_DATA_TEST_REQ
(27)
SIM_TEST_REQ
(Terminal Response)
(28)
SIM_TEST_CNF



Parametrization

Primitive	Parameter	Value
(1) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_STATUS
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STATUS
	stk_cmd	EMPTY_STK_CMD
(2) SIM_TEST_CNF		
	sw1	SW1_SUCCESS_EXTRA_INF
	sw2	LE_STK_OPEN_CHANNEL_OD_UDP
	stk_cmd	SIM_STATUS_STK
(3) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_FETCH
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STK_OPEN_CHANNEL_OD_UDP
	stk_cmd	EMPTY_STK_CMD
(4) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
	stk_cmd	STK_OPEN_CHANNEL_OD_UDP
(5) SIM_TOOLKIT_IND		
	stk_cmd	STK_OPEN_CHANNEL_OD_UDP
(6) SIM_DTI_REQ		
	link_id	LINK_ID_UDP
	dti_conn	SIM_BIP_OPEN_CHANNEL
	bip_ch_id	BIP_CH_ID_UDP
	con_type	SIM_CON_TYPE_UDP
	dti_direction	SEND_REQUESTS
	entity_name	ENTITY_UDP
	local_ip	SIM_IP_LOCAL_DYNAMIC
	destination_ip	DESTINATION_IP
	destination_port	DESTINATION_PORT
	general_result	RSLT_PERF_SUCCESS
	add_info_result	ADD_NO_CAUSE
	release_time	SIM_NO_AUTO_RELEASE
(7) SIM_DTI_CNF		
	link_id	LINK_ID_UDP
	dti_conn	SIM_BIP_OPEN_DTI_CLOSE_RES
	bip_ch_id	BIP_CH_ID_UDP
(8) SIM_TOOLKIT_RES		
	stk_cmd	STK_TERM_RESP_OD_UDP

(9) SIM_TEST_REQ

cla	GSM_CLASS
ins_code	SIM_INS_TERMINAL_RESPONSE
p1	P1_DUMMY
p2	P2_DUMMY
le	LE_STK_TERM_RESP_OD_UDP
stk_cmd	STK_TERM_RESP_OD_UDP

(10) SIM_TEST_CNF

sw1	SW1_SUCCESS_EXTRA_INF
sw2	LE_STK_SEND_DATA_ST_UDP_127
stk_cmd	EMPTY_STK_CMD

(11) SIM_TEST_REQ

cla	GSM_CLASS
ins_code	SIM_INS_FETCH
p1	P1_DUMMY
p2	P2_DUMMY
le	LE_STK_SEND_DATA_ST_UDP_127
stk_cmd	EMPTY_STK_CMD

(12) SIM_TEST_CNF

sw1	SW1_SUCCESS
sw2	SW2_NORMAL
stk_cmd	STK_SEND_DATA_ST_UDP_127

(13) SIM_TEST_REQ

cla	GSM_CLASS
ins_code	SIM_INS_TERMINAL_RESPONSE
p1	P1_DUMMY
p2	P2_DUMMY
le	LE_STK_TERM_RESP_SD_ST_255
stk_cmd	STK_TERM_RESP_SD_ST_255

(14) SIM_TEST_CNF

sw1	SW1_SUCCESS_EXTRA_INF
sw2	LE_STK_SEND_DATA_IM_UDP_127
stk_cmd	EMPTY_STK_CMD

(15) SIM_TEST_REQ

cla	GSM_CLASS
ins_code	SIM_INS_FETCH
p1	P1_DUMMY
p2	P2_DUMMY
le	LE_STK_SEND_DATA_IM_UDP_127
stk_cmd	EMPTY_STK_CMD

(16) SIM_TEST_CNF

sw1	SW1_SUCCESS
sw2	SW2_NORMAL
stk_cmd	STK_SEND_DATA_IM_UDP_127

(17) SIM_TOOLKIT_IND

stk_cmd	STK_SEND_DATA_IM_UDP_127

(18)	SIM_DTI_REQ		
		link_id	LINK_ID_UDP
		dti_conn	SIM_DTI_CONNECT
		bip_ch_id	BIP_CH_ID_UDP
		con_type	SIM_CON_TYPE_UDP
		dti_direction	SEND_REQUESTS
		entity_name	ENTITY_UDP
		local_ip	SIM_IP_LOCAL_DYNAMIC
		destination_ip	DESTINATION_IP
		destination_port	DESTINATION_PORT
		general_result	RSLT_PERF_SUCCESS
		add_info_result	ADD_NO_CAUSE
		release_time	SIM_NO_AUTO_RELEASE
(19)	UDP_BIND_REQ		
		port	UDP_AUTOASSIGN_PORT
(20)	UDP_BIND_CNF		
		port	UDP_SRC_PORT
		err	UDP_BIND_NOERROR
(21)	DTI2_CONNECT_REQ		
		link_id	LINK_ID_UDP
		version	DTI_VERSION_10
(22)	DTI2_CONNECT_CNF		
		link_id	LINK_ID_UDP
		version	DTI_VERSION_10
(23)	SIM_DTI_CNF		
		link_id	LINK_ID_UDP
		dti_conn	SIM_BIP_AND_DTI_OPEN_RES
		bip_ch_id	BIP_CH_ID_UDP
(24)	DTI2_GETDATA_REQ		
		link_id	LINK_ID_UDP
(25)	DTI2_READY_IND		
		link_id	LINK_ID_UDP
(26)	DTI2_DATA_TEST_REQ		
		link_id	LINK_ID_UDP
		parameters	DTI_PARAMETER_FRAME_UOS
		sdu	SDU_SEND_UDP_254
(27)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_TERMINAL_RESPONSE
		p1	P1_DUMMY
		p2	P2_DUMMY
		le	LE_STK_TERM_RESP_SD_IM_255
		stk_cmd	STK_TERM_RESP_SD_IM_255
(28)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS
		sw2	SW2_NORMAL
		stk_cmd	EMPTY_STK_CMD
(29)	SIM_TOOLKIT_IND		
		stk_cmd	EMPTY_STK_CMD
(30)	DTI2_READY_IND		
		link_id	LINK_ID_UDP

History:	24-Apr-2002	STW	Initial
	25-Sept-2002	JK	conversion from DTI to DTI2 interface

2.11.4 SIM303: Open Channel on demand on bearer level

Description:

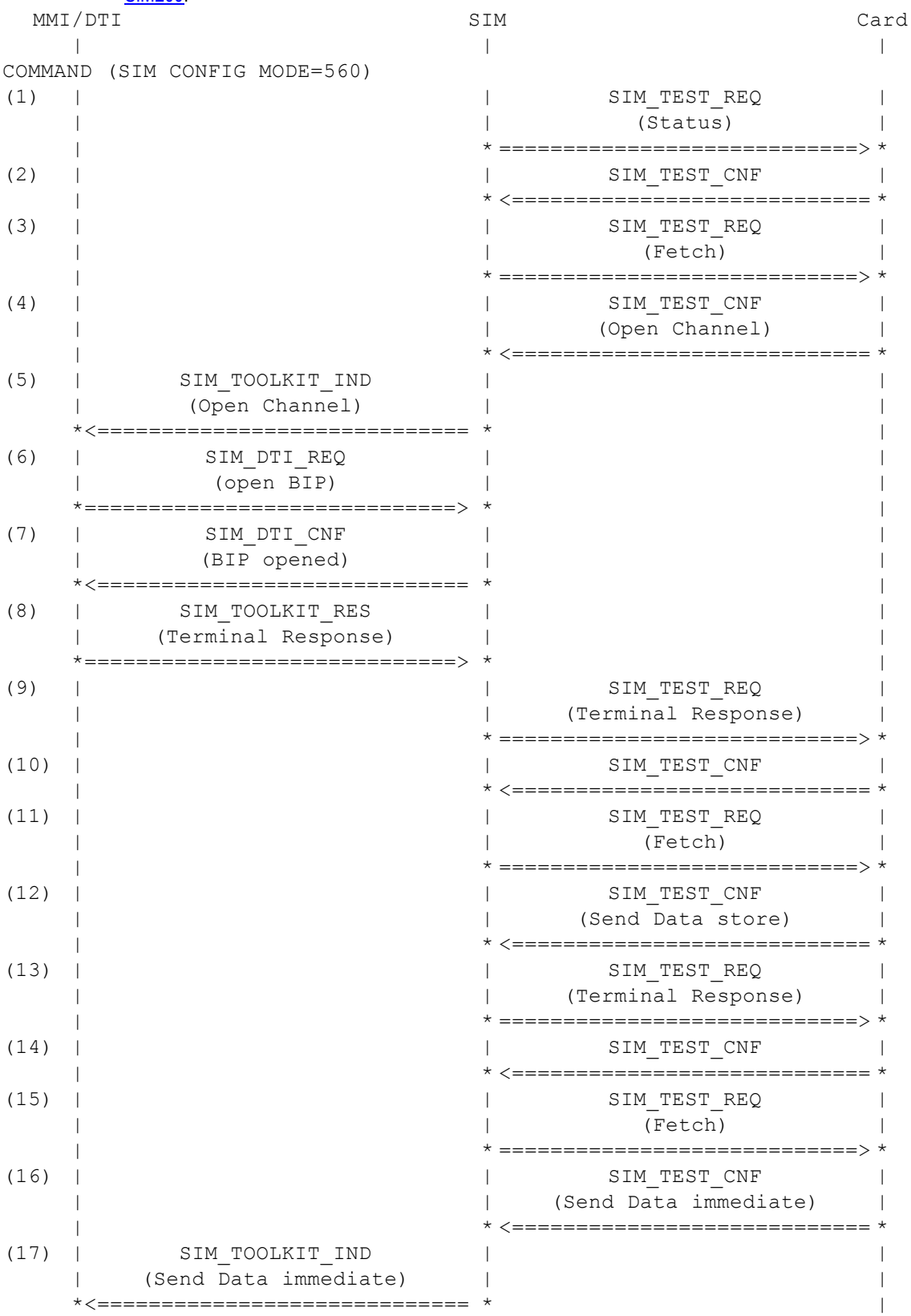
Open bearer independent protocol (BIP) channel to

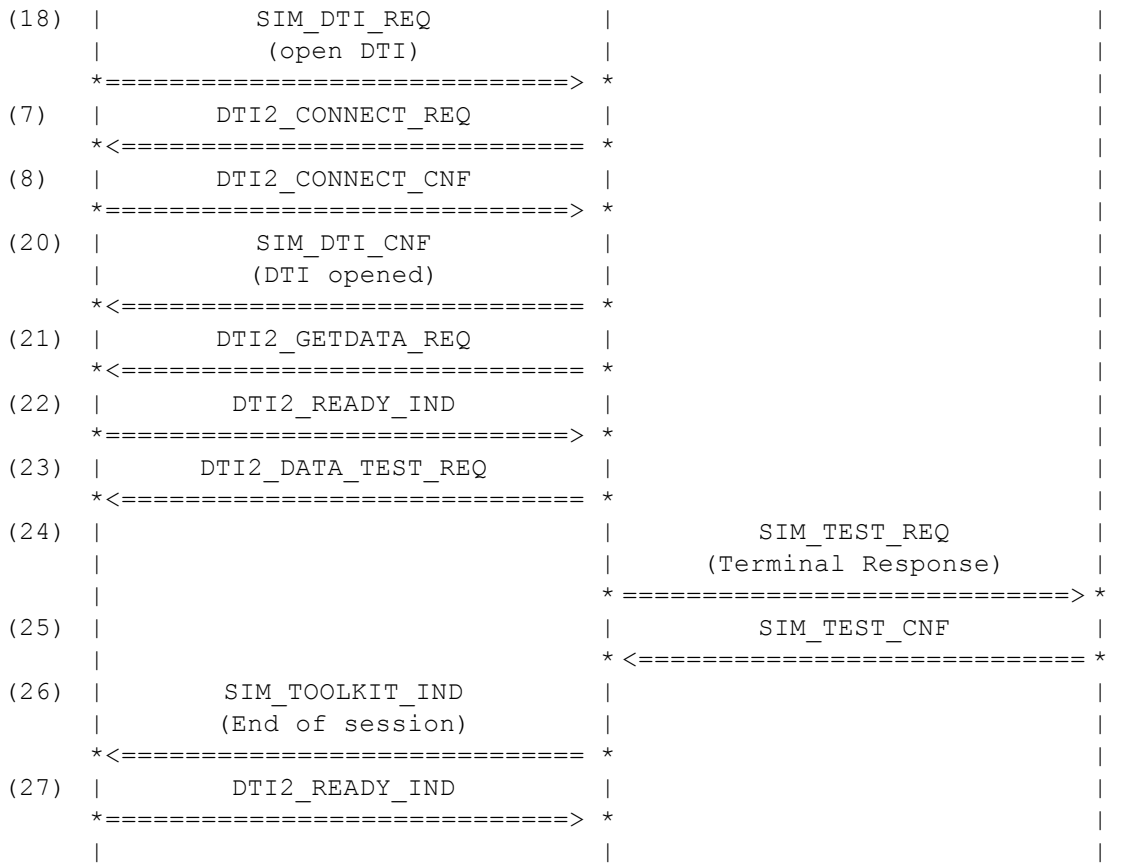
<A> SNDCP and
<B> L2R.
On demand establishment is requested.

Variants: <A>...<B>

Preamble:

SIM200F





Parametrization

Primitive	Parameter	Value
(1) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_STATUS
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STATUS
	stk_cmd	EMPTY_STK_CMD
(2) SIM_TEST_CNF		
	sw1	SW1_SUCCESS_EXTRA_INF
<A>	sw2	LE_STK_OPEN_CHANNEL_OD_SNDCP
<B>	sw2	LE_STK_OPEN_CHANNEL_OD_L2R
	stk_cmd	SIM_STATUS_STK
(3) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_FETCH
	p1	P1_DUMMY
	p2	P2_DUMMY
<A>	le	LE_STK_OPEN_CHANNEL_OD_SNDCP
<B>	le	LE_STK_OPEN_CHANNEL_OD_L2R
	stk_cmd	EMPTY_STK_CMD
(4) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
<A>	stk_cmd	STK_OPEN_CHANNEL_OD_SNDCP
<B>	stk_cmd	STK_OPEN_CHANNEL_OD_L2R
(5) SIM_TOOLKIT_IND		
<A>	stk_cmd	STK_OPEN_CHANNEL_OD_SNDCP
<B>	stk_cmd	STK_OPEN_CHANNEL_OD_L2R

(6)	SIM_DTI_REQ		
		link_id	LINK_ID_UDP
		dti_conn	SIM_BIP_OPEN_CHANNEL
	<A>	bip_ch_id	BIP_CH_ID_SNDCP
	<B>	bip_ch_id	BIP_CH_ID_L2R
		con_type	SIM_CON_TYPE_UDP
		dti_direction	SEND_REQUESTS
		entity_name	ENTITY_UDP
		local_ip	SIM_IP_LOCAL_DYNAMIC
		destination_ip	DESTINATION_IP
		destination_port	DESTINATION_PORT
		general_result	RSLT_PERF_SUCCESS
		add_info_result	ADD_NO_CAUSE
		release_time	SIM_NO_AUTO_RELEASE
(7)	SIM_DTI_CNF		
		link_id	LINK_ID_UDP
		dti_conn	SIM_BIP_OPEN_DTI_CLOSE_RES
	<A>	bip_ch_id	BIP_CH_ID_SNDCP
	<B>	bip_ch_id	BIP_CH_ID_L2R
(8)	SIM_TOOLKIT_RES		
	<A>	stk_cmd	STK_TERM_RESP_OD_SNDCP
	<B>	stk_cmd	STK_TERM_RESP_OD_L2R
(9)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_TERMINAL_RESPONSE
		p1	P1_DUMMY
		p2	P2_DUMMY
	<A>	le	LE_STK_TERM_RESP_OD_SNDCP
	<B>	le	LE_STK_TERM_RESP_OD_L2R
	<A>	stk_cmd	STK_TERM_RESP_OD_SNDCP
	<B>	stk_cmd	STK_TERM_RESP_OD_L2R
(10)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS_EXTRA_INF
	<A>	sw2	LE_STK_SEND_DATA_ST_SNDCP_127
	<B>	sw2	LE_STK_SEND_DATA_ST_L2R_127
		stk_cmd	EMPTY_STK_CMD
(11)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_FETCH
		p1	P1_DUMMY
		p2	P2_DUMMY
	<A>	le	LE_STK_SEND_DATA_ST_SNDCP_127
	<B>	le	LE_STK_SEND_DATA_ST_L2R_127
		stk_cmd	EMPTY_STK_CMD
(12)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS
		sw2	SW2_NORMAL
	<A>	stk_cmd	STK_SEND_DATA_ST_SNDCP_127
	<B>	stk_cmd	STK_SEND_DATA_ST_L2R_127
(13)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_TERMINAL_RESPONSE
		p1	P1_DUMMY
		p2	P2_DUMMY
		le	LE_STK_TERM_RESP_SD_ST_255
		stk_cmd	STK_TERM_RESP_SD_ST_255

(14) SIM_TEST_CNF		
	sw1	SW1_SUCCESS_EXTRA_INF
<A>	sw2	LE_STK_SEND_DATA_IM_SNDCP_127
<B>	sw2	LE_STK_SEND_DATA_IM_L2R_127
	stk_cmd	EMPTY_STK_CMD
(15) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_FETCH
	p1	P1_DUMMY
	p2	P2_DUMMY
<A>	le	LE_STK_SEND_DATA_IM_SNDCP_127
<B>	le	LE_STK_SEND_DATA_IM_L2R_127
	stk_cmd	EMPTY_STK_CMD
(16) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
<A>	stk_cmd	STK_SEND_DATA_IM_SNDCP_127
<B>	stk_cmd	STK_SEND_DATA_IM_L2R_127
(17) SIM_TOOLKIT_IND		
<A>	stk_cmd	STK_SEND_DATA_IM_SNDCP_127
<B>	stk_cmd	STK_SEND_DATA_IM_L2R_127
(18) SIM_DTI_REQ		
<A>	link_id	LINK_ID_SNDCP
<B>	link_id	LINK_ID_L2R
	dti_conn	SIM_DTI_CONNECT
<A>	bip_ch_id	BIP_CH_ID_SNDCP
<B>	bip_ch_id	BIP_CH_ID_L2R
<A>	con_type	SIM_CON_TYPE_IP
<B>	con_type	SIM_CON_TYPE_SERIAL
	dti_direction	SEND_REQUESTS
<A>	entity_name	ENTITY_SNDCP
<B>	entity_name	ENTITY_L2R
	local_ip	SIM_IP_LOCAL_DYNAMIC
	destination_ip	DESTINATION_IP
	destination_port	DESTINATION_PORT
	general_result	RSLT_PERF_SUCCESS
	add_info_result	ADD_NO_CAUSE
	release_time	SIM_NO_AUTO_RELEASE
(19) DTI2_CONNECT_REQ		
<A>	link_id	LINK_ID_SNDCP
<B>	link_id	LINK_ID_L2R
	version	DTI_VERSION_10
(20) DTI2_CONNECT_CNF		
<A>	link_id	LINK_ID_SNDCP
<B>	link_id	LINK_ID_L2R
<C>	link_id	LINK_ID_SNDCP
<D>	link_id	LINK_ID_L2R
	version	DTI_VERSION_10
(21) SIM_DTI_CNF		
<A>	link_id	LINK_ID_SNDCP
<B>	link_id	LINK_ID_L2R
	dti_conn	SIM_BIP_AND_DTI_OPEN_RES
<A>	bip_ch_id	BIP_CH_ID_SNDCP
<B>	bip_ch_id	BIP_CH_ID_L2R
(22) DTI2_GETDATA_REQ		
<A>	link_id	LINK_ID_SNDCP
<B>	link_id	LINK_ID_L2R

(23)	DTI2_READY_IND		
	<A>	link_id	LINK_ID_SNDCP
	<B>	link_id	LINK_ID_L2R
(24)	DTI2_DATA_TEST_REQ		
	<A>	link_id	LINK_ID_SNDCP
	<B>	link_id	LINK_ID_L2R
	<A>	parameters	DTI_PARAMETER_FRAME_IP
	<B>	parameters	DTI_PARAMETER_FRAME_UOS
		sdu	SDU_SEND_254
(25)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_TERMINAL_RESPONSE
		p1	P1_DUMMY
		p2	P2_DUMMY
		le	LE_STK_TERM_RESP_SD_IM_255
		stk_cmd	STK_TERM_RESP_SD_IM_255
(26)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS
		sw2	SW2_NORMAL
		stk_cmd	EMPTY_STK_CMD
(27)	SIM_TOOLKIT_IND		
		stk_cmd	EMPTY_STK_CMD
(28)	DTI2_READY_IND		
	<A>	link_id	LINK_ID_SNDCP
	<B>	link_id	LINK_ID_L2R

History:	03-May-2002	STW	Initial
	25-Sept-2002	JK	conversion from DTI to DTI2 interface

2.11.5 SIM305: Receive Data

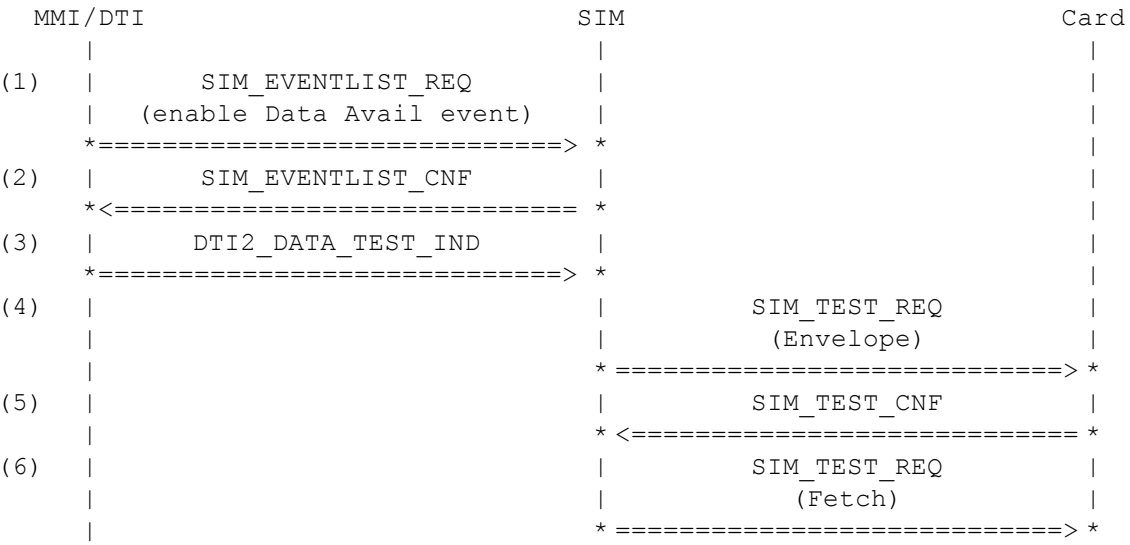
Description:

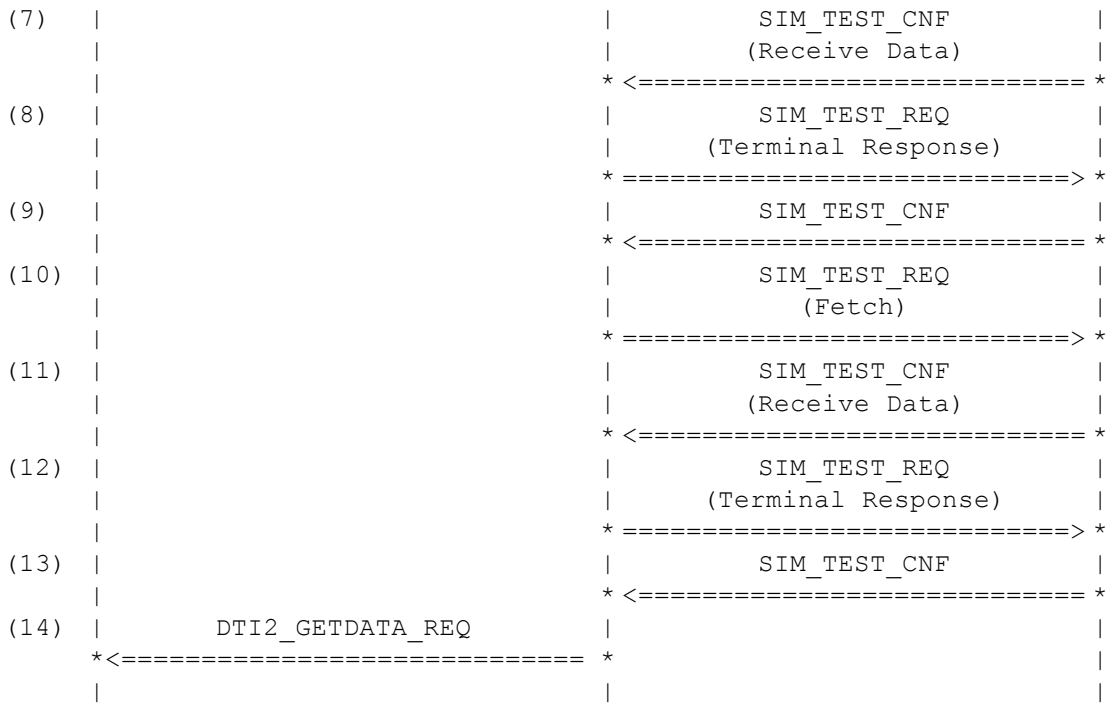
Data reception for a bearer independent protocol (BIP) channel. DTI communication entity is
<A> UDP,
<B> SNDCP and
<C> L2R.

Variants: <A>...<C>

Preamble:

<A> SIM300A
<B> SIM301A
<C> SIM301B





Parametrization

Primitive	Parameter	Value
(1) SIM_EVENTLIST_REQ		
	event_data_avail	SIM_EVENT_ENABLE
(2) SIM_EVENTLIST_CNF		
	event_data_avail	SIM_EVENT_ENABLE
(3) DTI2_DATA_TEST_IND		
<A>	link_id	LINK_ID_UDP
<B>	link_id	LINK_ID_SNDCP
<C>	link_id	LINK_ID_L2R
<A>	parameters	DTI_PARAMETER_FRAME_UOS
<B>	parameters	DTI_PARAMETER_FRAME_IP
<C>	parameters	DTI_PARAMETER_FRAME_UOS
<A>	sdu	SDU_RECEIVE_UDP_470
<B>	sdu	SDU_RECEIVE_470
<C>	sdu	SDU_RECEIVE_470
(4) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_ENVELOPE
	p1	P1_DUMMY
	p2	P2_DUMMY
<A>	le	LE_STK_ENVELOPE_DA_UDP_255
<B>	le	LE_STK_ENVELOPE_DA_SNDCP_255
<C>	le	LE_STK_ENVELOPE_DA_L2R_255
<A>	stk_cmd	STK_ENVELOPE_DA_UDP_255
<B>	stk_cmd	STK_ENVELOPE_DA_SNDCP_255
<C>	stk_cmd	STK_ENVELOPE_DA_L2R_255
(5) SIM_TEST_CNF		
	sw1	SW1_SUCCESS_EXTRA_INF
<A>	sw2	LE_STK_RCV_DATA_UDP_235
<B>	sw2	LE_STK_RCV_DATA_SNDCP_235
<C>	sw2	LE_STK_RCV_DATA_L2R_235
	stk_cmd	EMPTY_STK_CMD

(6) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_FETCH
	p1	P1_DUMMY
	p2	P2_DUMMY
<A>	le	LE_STK_RCV_DATA_UDP_235
<B>	le	LE_STK_RCV_DATA_SNDCP_235
<C>	le	LE_STK_RCV_DATA_L2R_235
	stk_cmd	EMPTY_STK_CMD
(7) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
<A>	stk_cmd	STK_RCV_DATA_UDP_235
<B>	stk_cmd	STK_RCV_DATA_SNDCP_235
<C>	stk_cmd	STK_RCV_DATA_L2R_235
(8) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_TERMINAL_RESPONSE
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STK_TERM_RESP_RD_235_235
	stk_cmd	STK_TERM_RESP_RD_235_235
(9) SIM_TEST_CNF		
	sw1	SW1_SUCCESS_EXTRA_INF
<A>	sw2	LE_STK_RCV_DATA_UDP_235
<B>	sw2	LE_STK_RCV_DATA_SNDCP_235
<C>	sw2	LE_STK_RCV_DATA_L2R_235
	stk_cmd	EMPTY_STK_CMD
(10) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_FETCH
	p1	P1_DUMMY
	p2	P2_DUMMY
<A>	le	LE_STK_RCV_DATA_UDP_235
<B>	le	LE_STK_RCV_DATA_SNDCP_235
<C>	le	LE_STK_RCV_DATA_L2R_235
	stk_cmd	EMPTY_STK_CMD
(11) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
<A>	stk_cmd	STK_RCV_DATA_UDP_235
<B>	stk_cmd	STK_RCV_DATA_SNDCP_235
<C>	stk_cmd	STK_RCV_DATA_L2R_235
(12) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_TERMINAL_RESPONSE
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STK_TERM_RESP_RD_235_0
	stk_cmd	STK_TERM_RESP_RD_235_0
(13) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
	stk_cmd	EMPTY_STK_CMD

(14) DTI2_GETDATA_REQ

<A>	link_id	LINK_ID_UDP
<B>	link_id	LINK_ID_SNDCP
<C>	link_id	LINK_ID_L2R

History:	06-May-2002	STW	Initial
	25-Sept-2002	JK	conversion from DTI to DTI2 interface

2.11.6 SIM306: Receive Data Data - icon identifier in one data carrying message

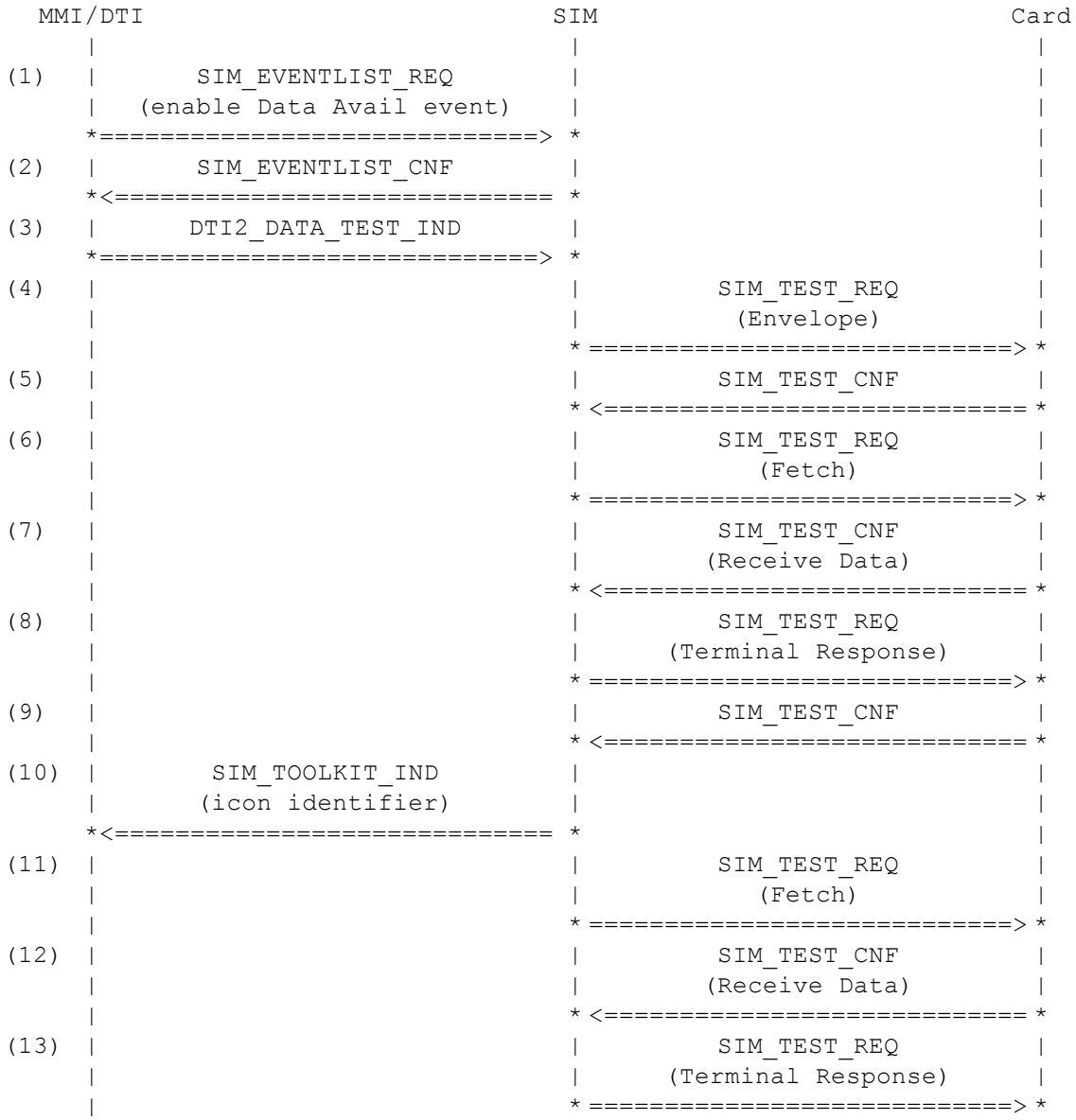
Description:

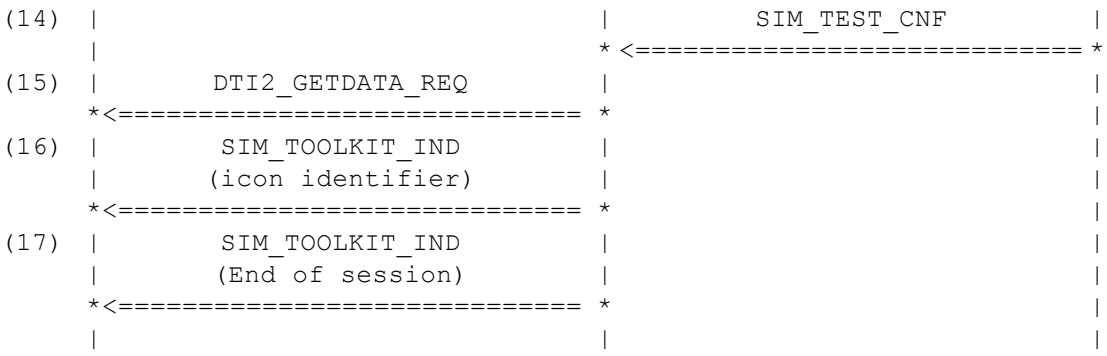
Data reception for a bearer independent protocol (BIP) channel. One data package contains one optional TLV element 'icon identifier'. Icon qualifier is set to 'icon is self-explanatory'. DTI communication entity is
<A> UDP,
<B> SNDCP and
<C> L2R.

Variants: <A>...<C>

Preamble:

<A> SIM300A
<B> SIM301A
<C> SIM301B





Parametrization

Primitive		Parameter	Value
(1)	SIM_EVENTLIST_REQ		
		event_data_avail	SIM_EVENT_ENABLE
(2)	SIM_EVENTLIST_CNF		
		event_data_avail	SIM_EVENT_ENABLE
(3)	DTI2_DATA_TEST_IND		
	<A>	link_id	LINK_ID_UDP
	<B>	link_id	LINK_ID_SNDCP
	<C>	link_id	LINK_ID_L2R
	<A>	parameters	DTI_PARAMETER_FRAME_UOS
	<B>	parameters	DTI_PARAMETER_FRAME_IP
	<C>	parameters	DTI_PARAMETER_FRAME_UOS
	<A>	sdu	SDU_RECEIVE_UDP_470
	<B>	sdu	SDU_RECEIVE_470
	<C>	sdu	SDU_RECEIVE_470
(4)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_ENVELOPE
		p1	P1_DUMMY
		p2	P2_DUMMY
	<A>	le	LE_STK_ENVELOPE_DA_UDP_255
	<B>	le	LE_STK_ENVELOPE_DA_SNDCP_255
	<C>	le	LE_STK_ENVELOPE_DA_L2R_255
	<A>	stk_cmd	STK_ENVELOPE_DA_UDP_255
	<B>	stk_cmd	STK_ENVELOPE_DA_SNDCP_255
	<C>	stk_cmd	STK_ENVELOPE_DA_L2R_255
(5)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS_EXTRA_INF
	<A>	sw2	LE_STK_RCV_DATA_UDP_I_235
	<B>	sw2	LE_STK_RCV_DATA_SNDCP_I_235
	<C>	sw2	LE_STK_RCV_DATA_L2R_I_235
		stk_cmd	EMPTY_STK_CMD
(6)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_FETCH
		p1	P1_DUMMY
		p2	P2_DUMMY
	<A>	le	LE_STK_RCV_DATA_UDP_I_235
	<B>	le	LE_STK_RCV_DATA_SNDCP_I_235
	<C>	le	LE_STK_RCV_DATA_L2R_I_235
		stk_cmd	EMPTY_STK_CMD

(7) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
<A>	stk_cmd	STK_RCV_DATA_UDP_I_235
<B>	stk_cmd	STK_RCV_DATA_SNDCP_I_235
<C>	stk_cmd	STK_RCV_DATA_L2R_I_235
(8) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_TERMINAL_RESPONSE
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STK_TERM_RESP_RD_235_235
	stk_cmd	STK_TERM_RESP_RD_235_235
(9) SIM_TEST_CNF		
	sw1	SW1_SUCCESS_EXTRA_INF
<A>	sw2	LE_STK_RCV_DATA_UDP_I_235
<B>	sw2	LE_STK_RCV_DATA_SNDCP_I_235
<C>	sw2	LE_STK_RCV_DATA_L2R_I_235
	stk_cmd	EMPTY_STK_CMD
(10) SIM_TOOLKIT_IND		
<A>	stk_cmd	STK_RCV_DATA_UDP_I_235
<B>	stk_cmd	STK_RCV_DATA_SNDCP_I_235
<C>	stk_cmd	STK_RCV_DATA_L2R_I_235
(11) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_FETCH
	p1	P1_DUMMY
	p2	P2_DUMMY
<A>	le	LE_STK_RCV_DATA_UDP_I_235
<B>	le	LE_STK_RCV_DATA_SNDCP_I_235
<C>	le	LE_STK_RCV_DATA_L2R_I_235
	stk_cmd	EMPTY_STK_CMD
(12) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
<A>	stk_cmd	STK_RCV_DATA_UDP_I_235
<B>	stk_cmd	STK_RCV_DATA_SNDCP_I_235
<C>	stk_cmd	STK_RCV_DATA_L2R_I_235
(13) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_TERMINAL_RESPONSE
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STK_TERM_RESP_RD_235_0
	stk_cmd	STK_TERM_RESP_RD_235_0
(14) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
	stk_cmd	EMPTY_STK_CMD
(15) DTI2_GETDATA_REQ		
<A>	link_id	LINK_ID_UDP
<B>	link_id	LINK_ID_SNDCP
<C>	link_id	LINK_ID_L2R
(16) SIM_TOOLKIT_IND		
<A>	stk_cmd	STK_RCV_DATA_UDP_I_235
<B>	stk_cmd	STK_RCV_DATA_SNDCP_I_235
<C>	stk_cmd	STK_RCV_DATA_L2R_I_235

(17) SIM_TOOLKIT_IND

stk_cmd EMPTY_STK_CMD

History:			
	17-June-2002	JK	Initial
	25-Sept-2002	JK	conversion from DTI to DTI2 interface

2.11.7 SIM307: Receive Data Data - icon and alpha identifier in one data carrying message. Versions D, E, F use timer-activated preambles.

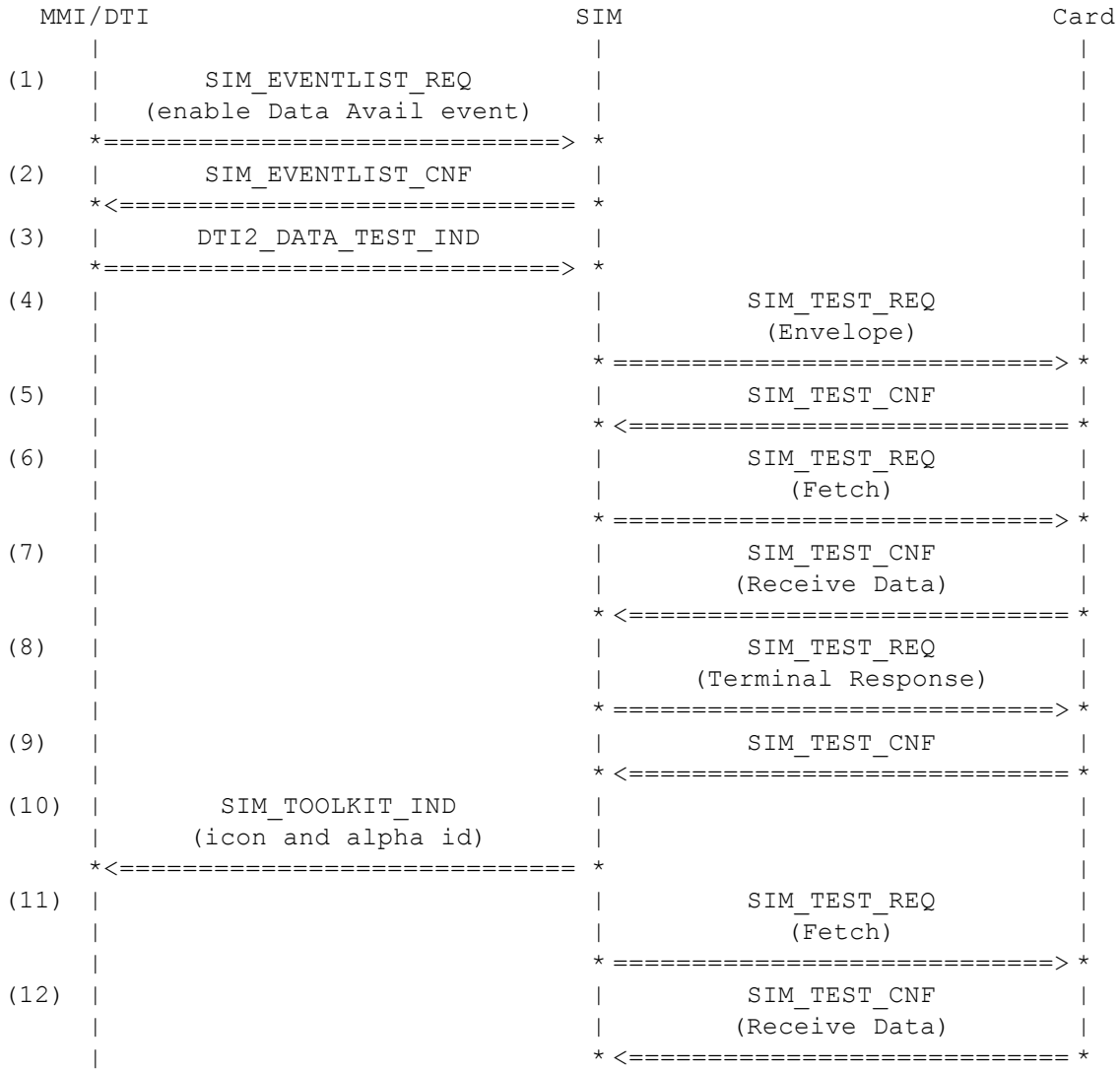
Description:

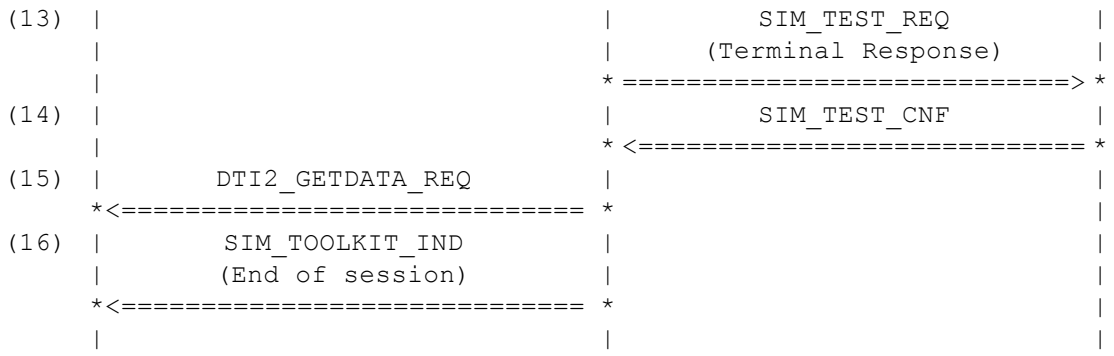
Data reception for a bearer independent protocol (BIP) channel. One data package contains two optional TLV elements 'icon identifier' and 'alpha identifier. Icon qualifier is set to 'icon is not self-explanatory'. DTI communication entity is.
<A, D> UDP,
<B, E> SNDCP and
<C, F> L2R.
NOTE: Versions <D> to <F> use the timer preamble test cases versions.

Variants: <A>...<F>

Preamble:

<A> SIM300A
<B> SIM301A
<C> SIM301B
<D> SIM300B
<E> SIM301C
<F> SIM301D





Parametrization

Primitive		Parameter	Value
(1)	SIM_EVENTLIST_REQ		
		event_data_avail	SIM_EVENT_ENABLE
(2)	SIM_EVENTLIST_CNF		
		event_data_avail	SIM_EVENT_ENABLE
(3)	DTI2_DATA_TEST_IND		
	<A>	link_id	LINK_ID_UDP
	<B>	link_id	LINK_ID_SNDCP
	<C>	link_id	LINK_ID_L2R
	<D>	link_id	LINK_ID_UDP
	<E>	link_id	LINK_ID_SNDCP
	<F>	link_id	LINK_ID_L2R
	<A>	parameters	DTI_PARAMETER_FRAME_UOS
	<B>	parameters	DTI_PARAMETER_FRAME_IP
	<C>	parameters	DTI_PARAMETER_FRAME_UOS
	<D>	parameters	DTI_PARAMETER_FRAME_UOS
	<E>	parameters	DTI_PARAMETER_FRAME_IP
	<F>	parameters	DTI_PARAMETER_FRAME_UOS
	<A>	sdu	SDU_RECEIVE_UDP_470
	<B>	sdu	SDU_RECEIVE_470
	<C>	sdu	SDU_RECEIVE_470
	<D>	sdu	SDU_RECEIVE_UDP_470
	<E>	sdu	SDU_RECEIVE_470
	<F>	sdu	SDU_RECEIVE_470
(4)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_ENVELOPE
		p1	P1_DUMMY
		p2	P2_DUMMY
	<A>	le	LE_STK_ENVELOPE_DA_UDP_255
	<B>	le	LE_STK_ENVELOPE_DA_SNDCP_255
	<C>	le	LE_STK_ENVELOPE_DA_L2R_255
	<D>	le	LE_STK_ENVELOPE_DA_UDP_255
	<E>	le	LE_STK_ENVELOPE_DA_SNDCP_255
	<F>	le	LE_STK_ENVELOPE_DA_L2R_255
	<A>	stk_cmd	STK_ENVELOPE_DA_UDP_255
	<B>	stk_cmd	STK_ENVELOPE_DA_SNDCP_255
	<C>	stk_cmd	STK_ENVELOPE_DA_L2R_255
	<D>	stk_cmd	STK_ENVELOPE_DA_UDP_255
	<E>	stk_cmd	STK_ENVELOPE_DA_SNDCP_255
	<F>	stk_cmd	STK_ENVELOPE_DA_L2R_255

(5) SIM_TEST_CNF		
	sw1	SW1_SUCCESS_EXTRA_INF
<A>	sw2	LE_STK_RCV_DATA_UDP_IA_235
<B>	sw2	LE_STK_RCV_DATA_SNDCP_IA_235
<C>	sw2	LE_STK_RCV_DATA_L2R_IA_235
<D>	sw2	LE_STK_RCV_DATA_UDP_IA_235
<E>	sw2	LE_STK_RCV_DATA_SNDCP_IA_235
<F>	sw2	LE_STK_RCV_DATA_L2R_IA_235
	stk_cmd	EMPTY_STK_CMD
(6) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_FETCH
	p1	P1_DUMMY
	p2	P2_DUMMY
<A>	le	LE_STK_RCV_DATA_UDP_IA_235
<B>	le	LE_STK_RCV_DATA_SNDCP_IA_235
<C>	le	LE_STK_RCV_DATA_L2R_IA_235
<D>	le	LE_STK_RCV_DATA_UDP_IA_235
<E>	le	LE_STK_RCV_DATA_SNDCP_IA_235
<F>	le	LE_STK_RCV_DATA_L2R_IA_235
	stk_cmd	EMPTY_STK_CMD
(7) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
<A>	stk_cmd	STK_RCV_DATA_UDP_IA_235
<B>	stk_cmd	STK_RCV_DATA_SNDCP_IA_235
<C>	stk_cmd	STK_RCV_DATA_L2R_IA_235
<D>	stk_cmd	STK_RCV_DATA_UDP_IA_235
<E>	stk_cmd	STK_RCV_DATA_SNDCP_IA_235
<F>	stk_cmd	STK_RCV_DATA_L2R_IA_235
(8) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_TERMINAL_RESPONSE
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STK_TERM_RESP_RD_235_235
	stk_cmd	STK_TERM_RESP_RD_235_235
(9) SIM_TEST_CNF		
	sw1	SW1_SUCCESS_EXTRA_INF
<A>	sw2	LE_STK_RCV_DATA_UDP_235
<B>	sw2	LE_STK_RCV_DATA_SNDCP_235
<C>	sw2	LE_STK_RCV_DATA_L2R_235
<D>	sw2	LE_STK_RCV_DATA_UDP_235
<E>	sw2	LE_STK_RCV_DATA_SNDCP_235
<F>	sw2	LE_STK_RCV_DATA_L2R_235
	stk_cmd	EMPTY_STK_CMD
(10) SIM_TOOLKIT_IND		
<A>	stk_cmd	STK_RCV_DATA_UDP_IA_235
<B>	stk_cmd	STK_RCV_DATA_SNDCP_IA_235
<C>	stk_cmd	STK_RCV_DATA_L2R_IA_235
<D>	stk_cmd	STK_RCV_DATA_UDP_IA_235
<E>	stk_cmd	STK_RCV_DATA_SNDCP_IA_235
<F>	stk_cmd	STK_RCV_DATA_L2R_IA_235

(11)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_FETCH
		p1	P1_DUMMY
		p2	P2_DUMMY
	<A>	le	LE_STK_RCV_DATA_UDP_235
	<B>	le	LE_STK_RCV_DATA_SNDCP_235
	<C>	le	LE_STK_RCV_DATA_L2R_235
	<D>	le	LE_STK_RCV_DATA_UDP_235
	<E>	le	LE_STK_RCV_DATA_SNDCP_235
	<F>	le	LE_STK_RCV_DATA_L2R_235
		stk_cmd	EMPTY_STK_CMD
(12)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS
		sw2	SW2_NORMAL
	<A>	stk_cmd	STK_RCV_DATA_UDP_235
	<B>	stk_cmd	STK_RCV_DATA_SNDCP_235
	<C>	stk_cmd	STK_RCV_DATA_L2R_235
	<D>	stk_cmd	STK_RCV_DATA_UDP_235
	<E>	stk_cmd	STK_RCV_DATA_SNDCP_235
	<F>	stk_cmd	STK_RCV_DATA_L2R_235
(13)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_TERMINAL_RESPONSE
		p1	P1_DUMMY
		p2	P2_DUMMY
		le	LE_STK_TERM_RESP_RD_235_0
		stk_cmd	STK_TERM_RESP_RD_235_0
(14)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS
		sw2	SW2_NORMAL
		stk_cmd	EMPTY_STK_CMD
(15)	DTI2_GETDATA_REQ		
	<A>	link_id	LINK_ID_UDP
	<B>	link_id	LINK_ID_SNDCP
	<C>	link_id	LINK_ID_L2R
	<D>	link_id	LINK_ID_UDP
	<E>	link_id	LINK_ID_SNDCP
	<F>	link_id	LINK_ID_L2R
(16)	SIM_TOOLKIT_IND		
		stk_cmd	EMPTY_STK_CMD

History:	17-June-2002	JK	Initial
	25-Sept-2002	JK	conversion from DTI to DTI2 interface

2.11.8 SIM311: Send Data

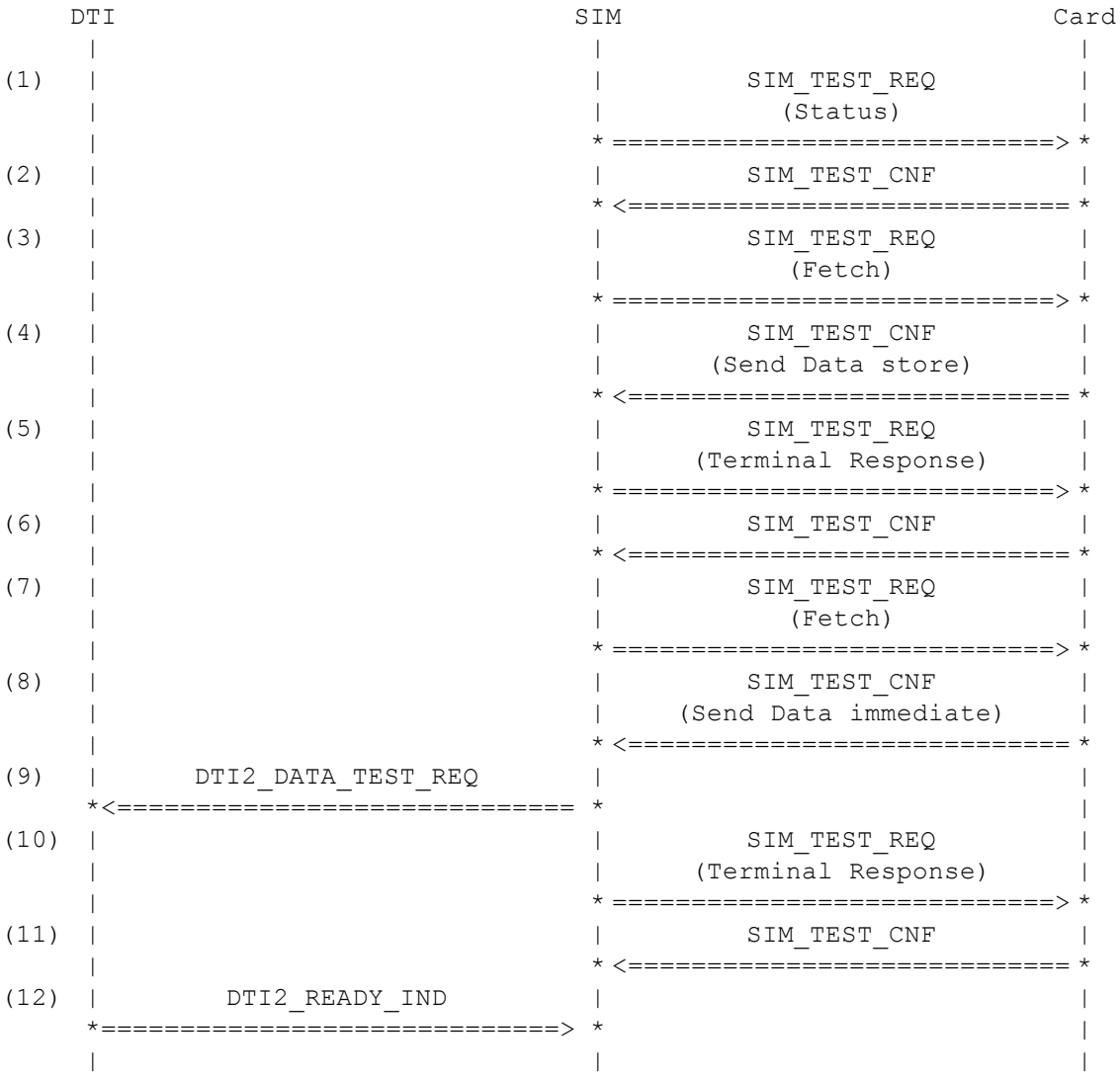
Description:

Data transmission for a bearer independent protocol (BIP) channel. DTI communication entity is
<A> UDP,
<B> SNDCP and
<C> L2R.

Variants: <A>...<C>

Preamble:

<A> SIM305A
<B> SIM305B
<C> SIM305C



Parametrization

Primitive	Parameter	Value
(1) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_STATUS
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STATUS
	stk_cmd	EMPTY_STK_CMD
(2) SIM_TEST_CNF		
	sw1	SW1_SUCCESS_EXTRA_INF
<A>	sw2	LE_STK_SEND_DATA_ST_UDP_241
<B>	sw2	LE_STK_SEND_DATA_ST_SNDCP_241
<C>	sw2	LE_STK_SEND_DATA_ST_L2R_241
	stk_cmd	SIM_STATUS_STK

(3)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_FETCH
		p1	P1_DUMMY
		p2	P2_DUMMY
	<A>	le	LE_STK_SEND_DATA_ST_UDP_241
	<B>	le	LE_STK_SEND_DATA_ST_SNDCP_241
	<C>	le	LE_STK_SEND_DATA_ST_L2R_241
		stk_cmd	EMPTY_STK_CMD
(4)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS
		sw2	SW2_NORMAL
	<A>	stk_cmd	STK_SEND_DATA_ST_UDP_241
	<B>	stk_cmd	STK_SEND_DATA_ST_SNDCP_241
	<C>	stk_cmd	STK_SEND_DATA_ST_L2R_241
(5)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_TERMINAL_RESPONSE
		p1	P1_DUMMY
		p2	P2_DUMMY
		le	LE_STK_TERM_RESP_SD_ST_255
		stk_cmd	STK_TERM_RESP_SD_ST_255
(6)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS_EXTRA_INF
	<A>	sw2	LE_STK_SEND_DATA_IM_UDP_241
	<B>	sw2	LE_STK_SEND_DATA_IM_SNDCP_241
	<C>	sw2	LE_STK_SEND_DATA_IM_L2R_241
		stk_cmd	EMPTY_STK_CMD
(7)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_FETCH
		p1	P1_DUMMY
		p2	P2_DUMMY
	<A>	le	LE_STK_SEND_DATA_IM_UDP_241
	<B>	le	LE_STK_SEND_DATA_IM_SNDCP_241
	<C>	le	LE_STK_SEND_DATA_IM_L2R_241
		stk_cmd	EMPTY_STK_CMD
(8)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS
		sw2	SW2_NORMAL
	<A>	stk_cmd	STK_SEND_DATA_IM_UDP_241
	<B>	stk_cmd	STK_SEND_DATA_IM_SNDCP_241
	<C>	stk_cmd	STK_SEND_DATA_IM_L2R_241
(9)	DTI2_DATA_TEST_REQ		
	<A>	link_id	LINK_ID_UDP
	<B>	link_id	LINK_ID_SNDCP
	<C>	link_id	LINK_ID_L2R
	<A>	parameters	DTI_PARAMETER_FRAME_UOS
	<B>	parameters	DTI_PARAMETER_FRAME_IP
	<C>	parameters	DTI_PARAMETER_FRAME_UOS
	<A>	sdu	SDU_SEND_UDP_482
	<B>	sdu	SDU_SEND_482
	<C>	sdu	SDU_SEND_482

(10) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_TERMINAL_RESPONSE
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STK_TERM_RESP_SD_IM_255
	stk_cmd	STK_TERM_RESP_SD_IM_255
(11) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
	stk_cmd	EMPTY_STK_CMD
(12) DTI2_READY_IND		
<A>	link_id	LINK_ID_UDP
<B>	link_id	LINK_ID_SNDCP
<C>	link_id	LINK_ID_L2R

History:	06-May-2002	STW	Initial
	25-Sept-2002	JK	conversion from DTI to DTI2 interface

2.11.9 SIM312: Send Data - icon identifier in one data carrying message

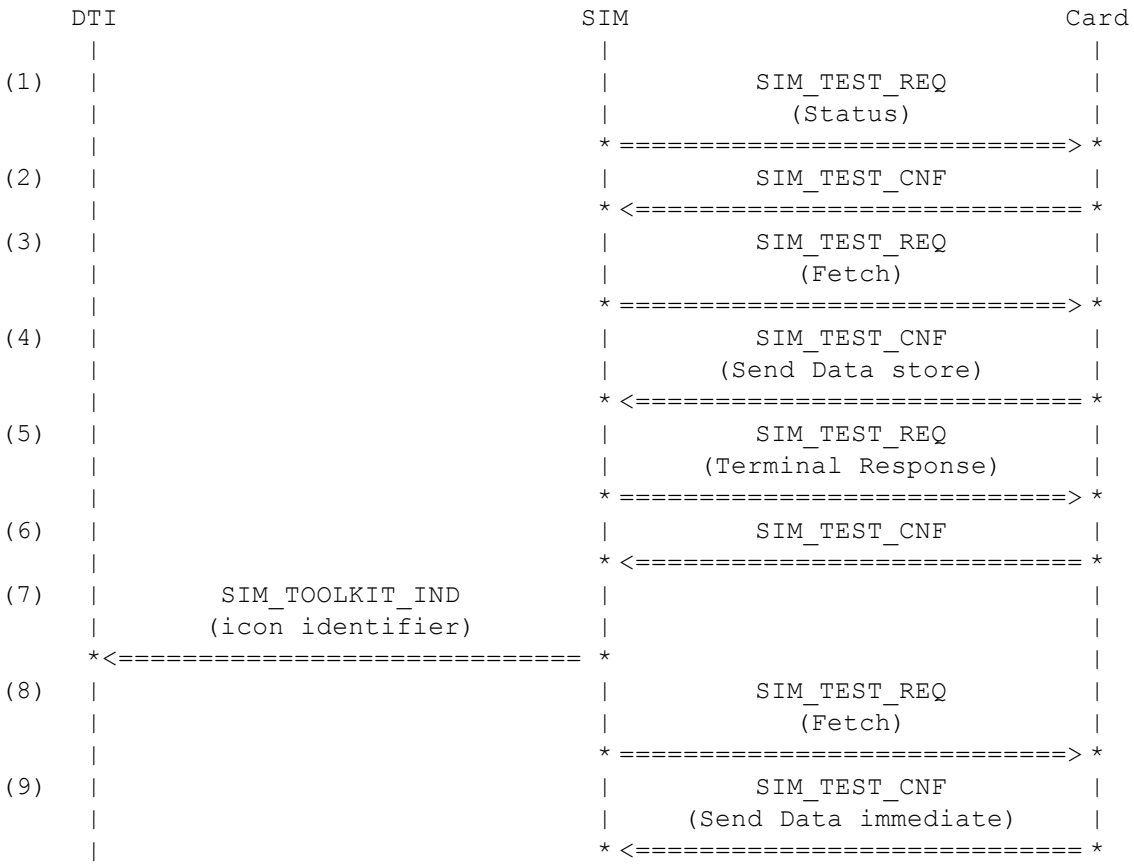
Description:

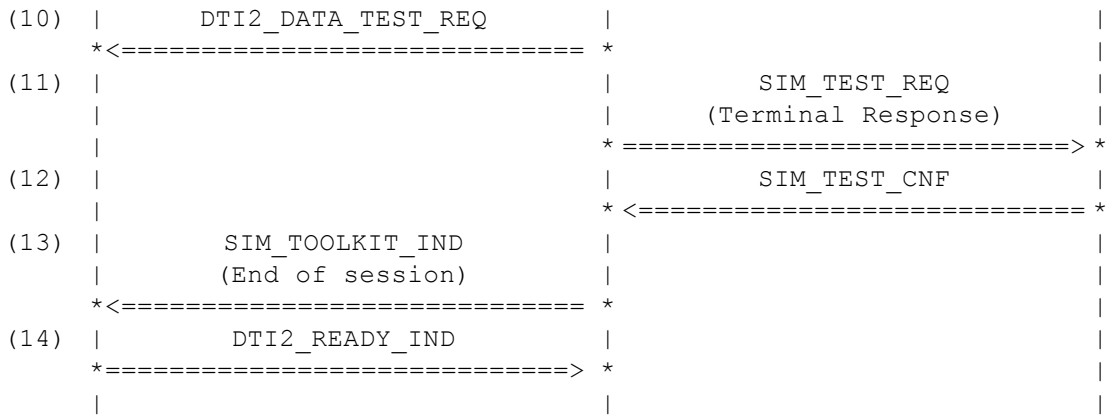
Data transmission for a bearer independent protocol (BIP) channel. One data package contains one optional TLV element 'icon identifier'. Icon qualifier is set to 'icon is self-explanatory'. DTI communication entity is
<A> UDP,
<B> SNDCP and
<C> L2R.

Variants: <A>...<C>

Preamble:

<A> SIM306A
<B> SIM306B
<C> SIM306C





Parametrization

Primitive		Parameter	Value
(1)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_STATUS
		p1	P1_DUMMY
		p2	P2_DUMMY
		le	LE_STATUS
		stk_cmd	EMPTY_STK_CMD
(2)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS_EXTRA_INF
	<A>	sw2	LE_STK_SND_DATA_ST_UDP_I_228
	<B>	sw2	LE_STK_SND_DATA_ST_SNDCP_I_228
	<C>	sw2	LE_STK_SND_DATA_ST_L2R_I_228
		stk_cmd	SIM_STATUS_STK
(3)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_FETCH
		p1	P1_DUMMY
		p2	P2_DUMMY
	<A>	le	LE_STK_SND_DATA_ST_UDP_I_228
	<B>	le	LE_STK_SND_DATA_ST_SNDCP_I_228
	<C>	le	LE_STK_SND_DATA_ST_L2R_I_228
		stk_cmd	EMPTY_STK_CMD
(4)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS
		sw2	SW2_NORMAL
	<A>	stk_cmd	STK_SEND_DATA_ST_UDP_I_228
	<B>	stk_cmd	STK_SEND_DATA_ST_SNDCP_I_228
	<C>	stk_cmd	STK_SEND_DATA_ST_L2R_I_228
(5)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_TERMINAL_RESPONSE
		p1	P1_DUMMY
		p2	P2_DUMMY
		le	LE_STK_TERM_RESP_SD_ST_255
		stk_cmd	STK_TERM_RESP_SD_ST_255
(6)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS_EXTRA_INF
	<A>	sw2	LE_STK_SEND_DATA_IM_UDP_241
	<B>	sw2	LE_STK_SEND_DATA_IM_SNDCP_241
	<C>	sw2	LE_STK_SEND_DATA_IM_L2R_241
		stk_cmd	EMPTY_STK_CMD

(7) SIM_TOOLKIT_IND			
	<A>	stk_cmd	STK_SEND_DATA_ST_UDP_I_228
	<B>	stk_cmd	STK_SEND_DATA_ST_SNDCP_I_228
	<C>	stk_cmd	STK_SEND_DATA_ST_L2R_I_228
(8) SIM_TEST_REQ			
		cla	GSM_CLASS
		ins_code	SIM_INS_FETCH
		p1	P1_DUMMY
		p2	P2_DUMMY
	<A>	le	LE_STK_SEND_DATA_IM_UDP_241
	<B>	le	LE_STK_SEND_DATA_IM_SNDCP_241
	<C>	le	LE_STK_SEND_DATA_IM_L2R_241
		stk_cmd	EMPTY_STK_CMD
(9) SIM_TEST_CNF			
		sw1	SW1_SUCCESS
		sw2	SW2_NORMAL
	<A>	stk_cmd	STK_SEND_DATA_IM_UDP_241
	<B>	stk_cmd	STK_SEND_DATA_IM_SNDCP_241
	<C>	stk_cmd	STK_SEND_DATA_IM_L2R_241
(10) DTI2_DATA_TEST_REQ			
	<A>	link_id	LINK_ID_UDP
	<B>	link_id	LINK_ID_SNDCP
	<C>	link_id	LINK_ID_L2R
	<A>	parameters	DTI_PARAMETER_FRAME_UOS
	<B>	parameters	DTI_PARAMETER_FRAME_IP
	<C>	parameters	DTI_PARAMETER_FRAME_UOS
	<A>	sdu	SDU_SEND_UDP_469
	<B>	sdu	SDU_SEND_469
	<C>	sdu	SDU_SEND_469
(11) SIM_TEST_REQ			
		cla	GSM_CLASS
		ins_code	SIM_INS_TERMINAL_RESPONSE
		p1	P1_DUMMY
		p2	P2_DUMMY
		le	LE_STK_TERM_RESP_SD_IM_255
		stk_cmd	STK_TERM_RESP_SD_IM_255
(12) SIM_TEST_CNF			
		sw1	SW1_SUCCESS
		sw2	SW2_NORMAL
		stk_cmd	EMPTY_STK_CMD
(13) SIM_TOOLKIT_IND			
		stk_cmd	EMPTY_STK_CMD
(14) DTI2_READY_IND			
	<A>	link_id	LINK_ID_UDP
	<B>	link_id	LINK_ID_SNDCP
	<C>	link_id	LINK_ID_L2R

History:	17-June-2002	JK	Initial
	25-Sept-2002	JK	conversion from DTI to DTI2 interface

2.11.10 SIM313: Send Data - icon identifier in two data carrying messages.

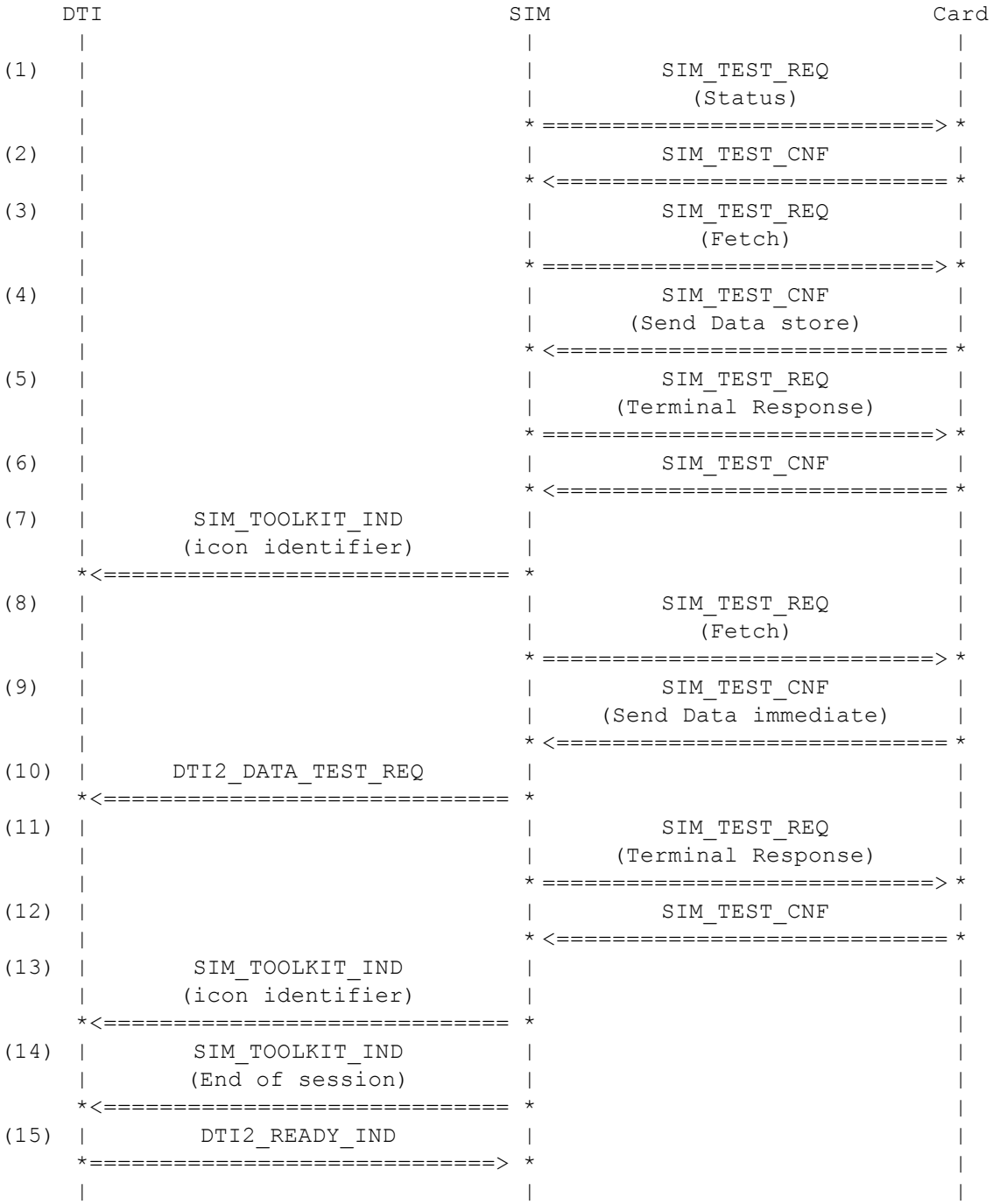
Description:

Data transmission for a bearer independent protocol (BIP) channel. Two data packages contain one optional TLV element 'icon identifier'. In both the icon qualifiers are set to 'icon is self-explanatory'.. DTI communication entity is
<A> UDP,
<B> SNDCP and
<C> L2R.

Variants: <A>...<C>

Preamble:

<A> SIM306A
<B> SIM306B
<C> SIM306C



Parametrization

Primitive	Parameter	Value
(1) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_STATUS
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STATUS
	stk_cmd	EMPTY_STK_CMD

(2)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS_EXTRA_INF
	<A>	sw2	LE_STK_SND_DATA_ST_UDP_I_228
	<B>	sw2	LE_STK_SND_DATA_ST_SNDCP_I_228
	<C>	sw2	LE_STK_SND_DATA_ST_L2R_I_228
		stk_cmd	SIM_STATUS_STK
(3)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_FETCH
		p1	P1_DUMMY
		p2	P2_DUMMY
	<A>	le	LE_STK_SND_DATA_ST_UDP_I_228
	<B>	le	LE_STK_SND_DATA_ST_SNDCP_I_228
	<C>	le	LE_STK_SND_DATA_ST_L2R_I_228
		stk_cmd	EMPTY_STK_CMD
(4)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS
		sw2	SW2_NORMAL
	<A>	stk_cmd	STK_SEND_DATA_ST_UDP_I_228
	<B>	stk_cmd	STK_SEND_DATA_ST_SNDCP_I_228
	<C>	stk_cmd	STK_SEND_DATA_ST_L2R_I_228
(5)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_TERMINAL_RESPONSE
		p1	P1_DUMMY
		p2	P2_DUMMY
		le	LE_STK_TERM_RESP_SD_ST_255
		stk_cmd	STK_TERM_RESP_SD_ST_255
(6)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS_EXTRA_INF
	<A>	sw2	LE_STK_SND_DATA_IM_UDP_I_228
	<B>	sw2	LE_STK_SND_DATA_IM_SNDCP_I_228
	<C>	sw2	LE_STK_SND_DATA_IM_L2R_I_228
		stk_cmd	EMPTY_STK_CMD
(7)	SIM_TOOLKIT_IND		
	<A>	stk_cmd	STK_SEND_DATA_ST_UDP_I_228
	<B>	stk_cmd	STK_SEND_DATA_ST_SNDCP_I_228
	<C>	stk_cmd	STK_SEND_DATA_ST_L2R_I_228
(8)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_FETCH
		p1	P1_DUMMY
		p2	P2_DUMMY
	<A>	le	LE_STK_SND_DATA_IM_UDP_I_228
	<B>	le	LE_STK_SND_DATA_IM_SNDCP_I_228
	<C>	le	LE_STK_SND_DATA_IM_L2R_I_228
		stk_cmd	EMPTY_STK_CMD
(9)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS
		sw2	SW2_NORMAL
	<A>	stk_cmd	STK_SEND_DATA_IM_UDP_I_228
	<B>	stk_cmd	STK_SEND_DATA_IM_SNDCP_I_228
	<C>	stk_cmd	STK_SEND_DATA_IM_L2R_I_228

(10) DTI2_DATA_TEST_REQ		
<A>	link_id	LINK_ID_UDP
<B>	link_id	LINK_ID_SNDCP
<C>	link_id	LINK_ID_L2R
<A>	parameters	DTI_PARAMETER_FRAME_UOS
<B>	parameters	DTI_PARAMETER_FRAME_IP
<C>	parameters	DTI_PARAMETER_FRAME_UOS
<A>	sdu	SDU_SEND_UDP_456
<B>	sdu	SDU_SEND_456
<C>	sdu	SDU_SEND_456
(11) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_TERMINAL_RESPONSE
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STK_TERM_RESP_SD_IM_255
	stk_cmd	STK_TERM_RESP_SD_IM_255
(12) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
	stk_cmd	EMPTY_STK_CMD
(13) SIM_TOOLKIT_IND		
<A>	stk_cmd	STK_SEND_DATA_IM_UDP_I_228
<B>	stk_cmd	STK_SEND_DATA_IM_SNDCP_I_228
<C>	stk_cmd	STK_SEND_DATA_IM_L2R_I_228
(14) SIM_TOOLKIT_IND		
	stk_cmd	EMPTY_STK_CMD
(15) DTI2_READY_IND		
<A>	link_id	LINK_ID_UDP
<B>	link_id	LINK_ID_SNDCP
<C>	link_id	LINK_ID_L2R

History:	27-June-2002	JK	Initial
	25-Sept-2002	JK	conversion from DTI to DTI2 interface

2.11.11 SIM314: Send Data - icon and alpha identifier in one data carrying message

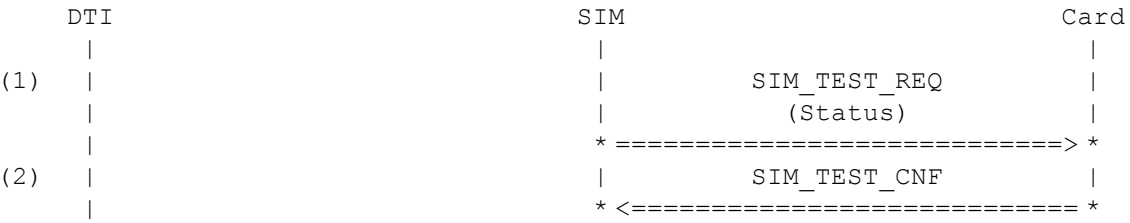
Description:

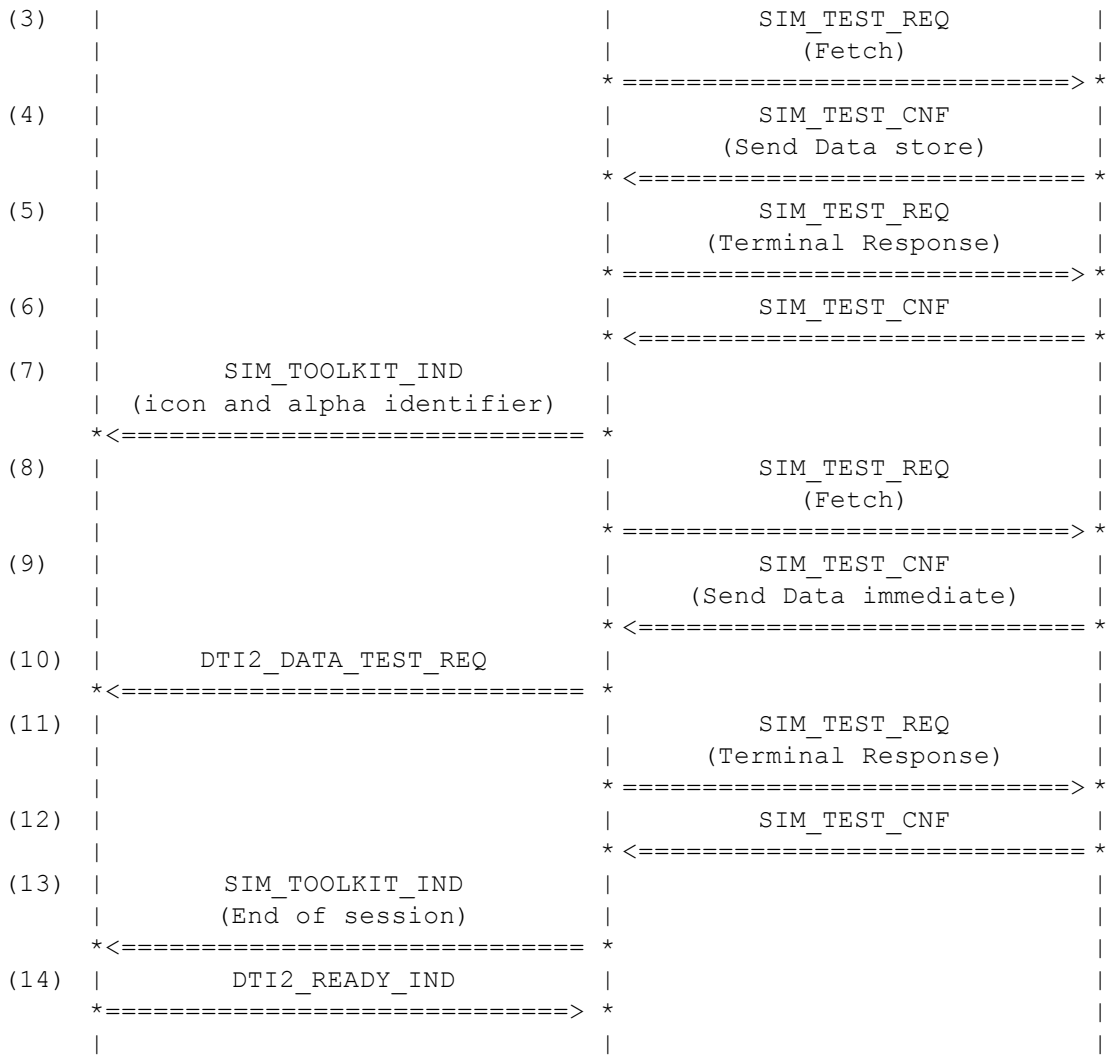
Data transmission for a bearer independent protocol (BIP) channel. One data package contains two optional TLV elements 'icon identifier' and 'alpha identifier'. Icon qualifier is set to 'icon is not self-explanatory'. DTI communication entity is
<A> UDP,
<B> SNDCP and
<C> L2R.

Variants: <A>...<C>

Preamble:

<A> SIM307A
<B> SIM307B
<C> SIM307C





Parametrization

Primitive		Parameter	Value
(1)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_STATUS
		p1	P1_DUMMY
		p2	P2_DUMMY
		le	LE_STATUS
		stk_cmd	EMPTY_STK_CMD
(2)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS_EXTRA_INF
	<A>	sw2	LE_STK_SND_DATA_ST_UDP_IA_228
	<B>	sw2	LE_STK_SND_DATA_ST_SNDCP_IA_228
	<C>	sw2	LE_STK_SND_DATA_ST_L2R_IA_228
		stk_cmd	SIM_STATUS_STK
(3)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_FETCH
		p1	P1_DUMMY
		p2	P2_DUMMY
	<A>	le	LE_STK_SND_DATA_ST_UDP_IA_228
	<B>	le	LE_STK_SND_DATA_ST_SNDCP_IA_228
	<C>	le	LE_STK_SND_DATA_ST_L2R_IA_228
		stk_cmd	EMPTY_STK_CMD

(4)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS
		sw2	SW2_NORMAL
	<A>	stk_cmd	STK_SEND_DATA_ST_UDP_IA_228
	<B>	stk_cmd	STK_SEND_DATA_ST_SNDCP_IA_228
	<C>	stk_cmd	STK_SEND_DATA_ST_L2R_IA_228
(5)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_TERMINAL_RESPONSE
		p1	P1_DUMMY
		p2	P2_DUMMY
		le	LE_STK_TERM_RESP_SD_ST_255
		stk_cmd	STK_TERM_RESP_SD_ST_255
(6)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS_EXTRA_INF
	<A>	sw2	LE_STK_SEND_DATA_IM_UDP_241
	<B>	sw2	LE_STK_SEND_DATA_IM_SNDCP_241
	<C>	sw2	LE_STK_SEND_DATA_IM_L2R_241
		stk_cmd	EMPTY_STK_CMD
(7)	SIM_TOOLKIT_IND		
	<A>	stk_cmd	STK_SEND_DATA_ST_UDP_IA_228
	<B>	stk_cmd	STK_SEND_DATA_ST_SNDCP_IA_228
	<C>	stk_cmd	STK_SEND_DATA_ST_L2R_IA_228
(8)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_FETCH
		p1	P1_DUMMY
		p2	P2_DUMMY
	<A>	le	LE_STK_SEND_DATA_IM_UDP_241
	<B>	le	LE_STK_SEND_DATA_IM_SNDCP_241
	<C>	le	LE_STK_SEND_DATA_IM_L2R_241
		stk_cmd	EMPTY_STK_CMD
(9)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS
		sw2	SW2_NORMAL
	<A>	stk_cmd	STK_SEND_DATA_IM_UDP_241
	<B>	stk_cmd	STK_SEND_DATA_IM_SNDCP_241
	<C>	stk_cmd	STK_SEND_DATA_IM_L2R_241
(10)	DTI2_DATA_TEST_REQ		
	<A>	link_id	LINK_ID_UDP
	<B>	link_id	LINK_ID_SNDCP
	<C>	link_id	LINK_ID_L2R
	<A>	parameters	DTI_PARAMETER_FRAME_UOS
	<B>	parameters	DTI_PARAMETER_FRAME_IP
	<C>	parameters	DTI_PARAMETER_FRAME_UOS
	<A>	sdu	SDU_SEND_UDP_469
	<B>	sdu	SDU_SEND_469
	<C>	sdu	SDU_SEND_469
(11)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_TERMINAL_RESPONSE
		p1	P1_DUMMY
		p2	P2_DUMMY
		le	LE_STK_TERM_RESP_SD_IM_255
		stk_cmd	STK_TERM_RESP_SD_IM_255

(12)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS
		sw2	SW2_NORMAL
		stk_cmd	EMPTY_STK_CMD
(13)	SIM_TOOLKIT_IND		
		stk_cmd	EMPTY_STK_CMD
(14)	DTI2_READY_IND		
	<A>	link_id	LINK_ID_UDP
	<B>	link_id	LINK_ID_SNDCP
	<C>	link_id	LINK_ID_L2R

History:	17-June-2002	JK	Initial
	25-Sept-2002	JK	conversion from DTI to DTI2 interface

2.11.12 SIM315: Send Data - icon and alpha identifier in two data carrying messages

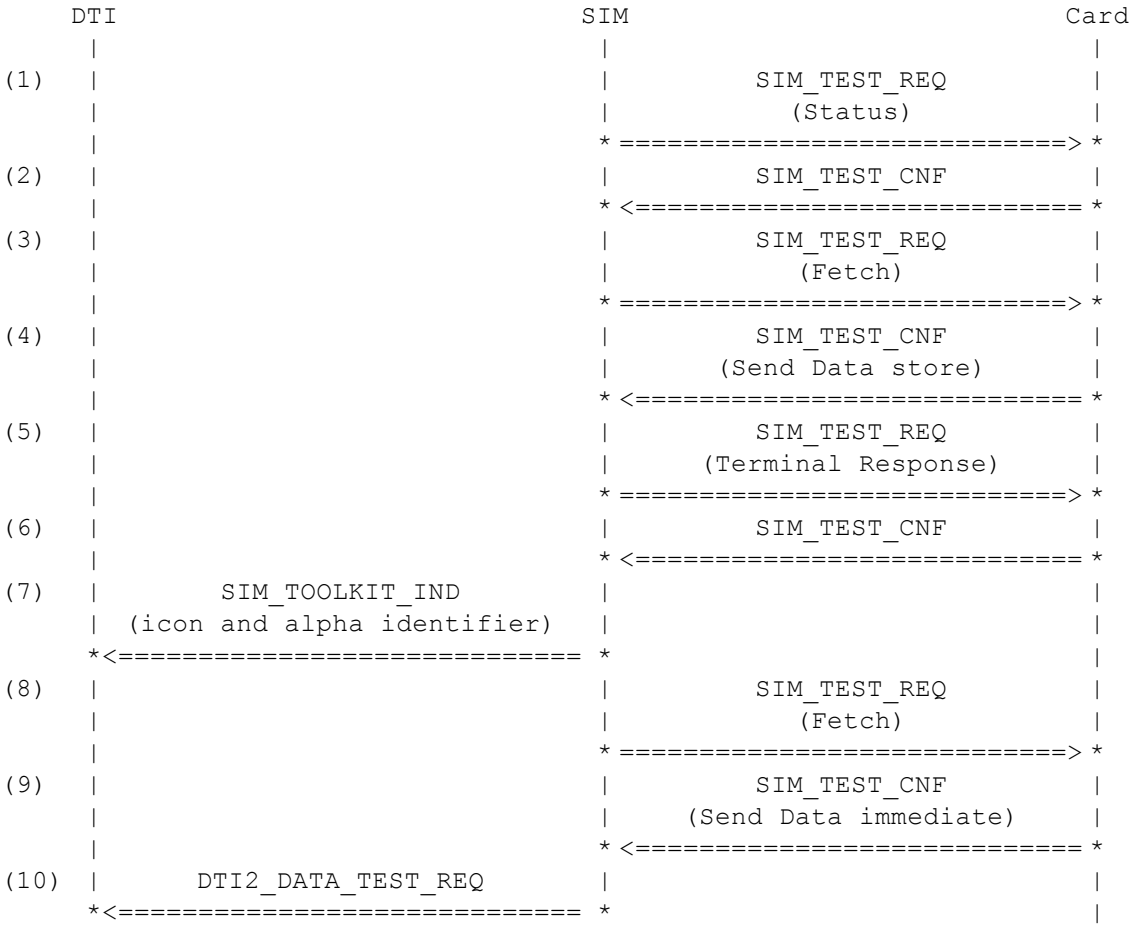
Description:

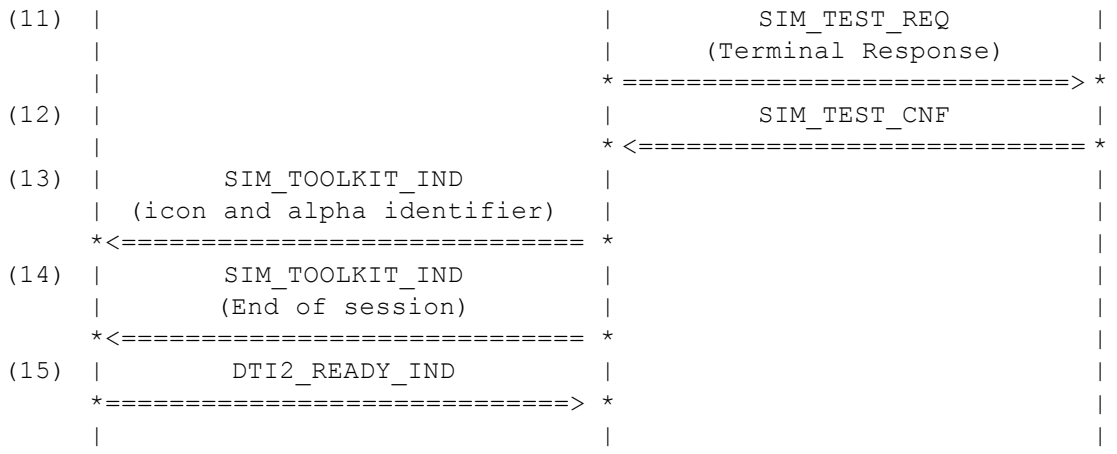
Data transmission for a bearer independent protocol (BIP) channel. Two data packages contain two optional TLV elements 'icon identifier' and 'alpha identifier'. In both the icon qualifiers are set to 'icon is not self-explanatory'. DTI communication entity is
<A> UDP,
<B> SNDCP and
<C> L2R.

Variants: <A>...<C>

Preamble:

<A> SIM307A
<B> SIM307B
<C> SIM307C





Parametrization

Primitive	Parameter	Value
(1) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_STATUS
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STATUS
	stk_cmd	EMPTY_STK_CMD
(2) SIM_TEST_CNF		
	sw1	SW1_SUCCESS_EXTRA_INF
<A>	sw2	LE_STK_SND_DATA_ST_UDP_IA_228
<B>	sw2	LE_STK_SND_DATA_ST_SNDCP_IA_228
<C>	sw2	LE_STK_SND_DATA_ST_L2R_IA_228
	stk_cmd	SIM_STATUS_STK
(3) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_FETCH
	p1	P1_DUMMY
	p2	P2_DUMMY
<A>	le	LE_STK_SND_DATA_ST_UDP_IA_228
<B>	le	LE_STK_SND_DATA_ST_SNDCP_IA_228
<C>	le	LE_STK_SND_DATA_ST_L2R_IA_228
	stk_cmd	EMPTY_STK_CMD
(4) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
<A>	stk_cmd	STK_SEND_DATA_ST_UDP_IA_228
<B>	stk_cmd	STK_SEND_DATA_ST_SNDCP_IA_228
<C>	stk_cmd	STK_SEND_DATA_ST_L2R_IA_228
(5) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_TERMINAL_RESPONSE
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STK_TERM_RESP_SD_ST_255
	stk_cmd	STK_TERM_RESP_SD_ST_255

(6) SIM_TEST_CNF		
	sw1	SW1_SUCCESS_EXTRA_INF
<A>	sw2	LE_STK_SND_DATA_ST_UDP_IA_228
<B>	sw2	LE_STK_SND_DATA_ST_SNDCP_IA_228
<C>	sw2	LE_STK_SND_DATA_ST_L2R_IA_228
	stk_cmd	EMPTY_STK_CMD
(7) SIM_TOOLKIT_IND		
<A>	stk_cmd	STK_SEND_DATA_ST_UDP_IA_228
<B>	stk_cmd	STK_SEND_DATA_ST_SNDCP_IA_228
<C>	stk_cmd	STK_SEND_DATA_ST_L2R_IA_228
(8) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_FETCH
	p1	P1_DUMMY
	p2	P2_DUMMY
<A>	le	LE_STK_SND_DATA_IM_UDP_IA_228
<B>	le	LE_STK_SND_DATA_IM_SNDCP_IA_228
<C>	le	LE_STK_SND_DATA_IM_L2R_IA_228
	stk_cmd	EMPTY_STK_CMD
(9) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
<A>	stk_cmd	STK_SEND_DATA_IM_UDP_IA_228
<B>	stk_cmd	STK_SEND_DATA_IM_SNDCP_IA_228
<C>	stk_cmd	STK_SEND_DATA_IM_L2R_IA_228
(10) DTI2_DATA_TEST_REQ		
<A>	link_id	LINK_ID_UDP
<B>	link_id	LINK_ID_SNDCP
<C>	link_id	LINK_ID_L2R
<A>	parameters	DTI_PARAMETER_FRAME_UOS
<B>	parameters	DTI_PARAMETER_FRAME_IP
<C>	parameters	DTI_PARAMETER_FRAME_UOS
<A>	sdu	SDU_SEND_UDP_456
<B>	sdu	SDU_SEND_456
<C>	sdu	SDU_SEND_456
(11) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_TERMINAL_RESPONSE
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STK_TERM_RESP_SD_IM_255
	stk_cmd	STK_TERM_RESP_SD_IM_255
(12) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
	stk_cmd	EMPTY_STK_CMD
(13) SIM_TOOLKIT_IND		
<A>	stk_cmd	STK_SEND_DATA_IM_UDP_IA_228
<B>	stk_cmd	STK_SEND_DATA_IM_SNDCP_IA_228
<C>	stk_cmd	STK_SEND_DATA_IM_L2R_IA_228
(14) SIM_TOOLKIT_IND		
	stk_cmd	EMPTY_STK_CMD
(15) DTI2_READY_IND		
<A>	link_id	LINK_ID_UDP
<B>	link_id	LINK_ID_SNDCP
<C>	link_id	LINK_ID_L2R

History:	28-June-2002	JK	Initial
	25-Sept-2002	JK	conversion from DTI to DTI2 interface

2.11.13 SIM316: Send Data – the timer in the BPI channel activated.

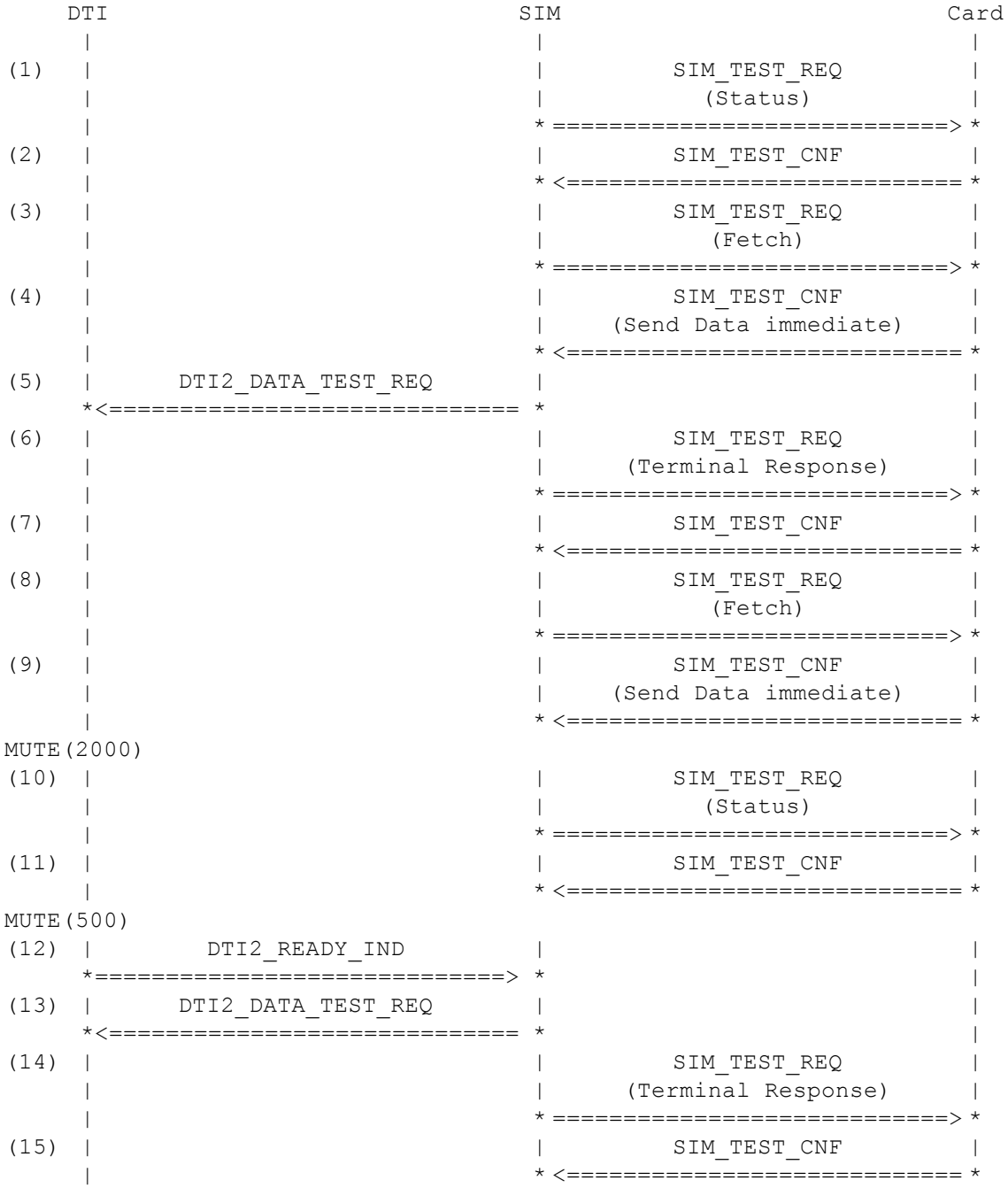
Description:

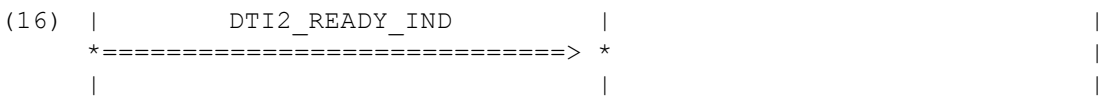
Data transmission for a bearer independent protocol (BIP) channel. DTI communication entity is
<A> UDP,
<B> SNDCP and
<C> L2R.
Two mute times are included who nevertheless do not let the BIP-channel timer to run out.

Variants: <A>...<C>

Preamble:

<A> SIM307D
<B> SIM307E
<C> SIM307F





Parametrization

Primitive	Parameter	Value
(1) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_STATUS
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STATUS
	stk_cmd	EMPTY_STK_CMD
(2) SIM_TEST_CNF		
	sw1	SW1_SUCCESS_EXTRA_INF
<A>	sw2	LE_STK_SEND_DATA_IM_UDP_241
<B>	sw2	LE_STK_SEND_DATA_IM_SNDCP_241
<C>	sw2	LE_STK_SEND_DATA_IM_L2R_241
	stk_cmd	SIM_STATUS_STK
(3) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_FETCH
	p1	P1_DUMMY
	p2	P2_DUMMY
<A>	le	LE_STK_SEND_DATA_IM_UDP_241
<B>	le	LE_STK_SEND_DATA_IM_SNDCP_241
<C>	le	LE_STK_SEND_DATA_IM_L2R_241
	stk_cmd	EMPTY_STK_CMD
(4) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
<A>	stk_cmd	STK_SEND_DATA_IM_UDP_241
<B>	stk_cmd	STK_SEND_DATA_IM_SNDCP_241
<C>	stk_cmd	STK_SEND_DATA_IM_L2R_241
(5) DTI2_DATA_TEST_REQ		
<A>	link_id	LINK_ID_UDP
<B>	link_id	LINK_ID_SNDCP
<C>	link_id	LINK_ID_L2R
<A>	parameters	DTI_PARAMETER_FRAME_UOS
<B>	parameters	DTI_PARAMETER_FRAME_IP
<C>	parameters	DTI_PARAMETER_FRAME_UOS
<A>	sdu	SDU_SEND_UDP_241
<B>	sdu	SDU_SEND_241
<C>	sdu	SDU_SEND_241
(6) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_TERMINAL_RESPONSE
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STK_TERM_RESP_SD_IM_255
	stk_cmd	STK_TERM_RESP_SD_IM_255
(7) SIM_TEST_CNF		
	sw1	SW1_SUCCESS_EXTRA_INF
<A>	sw2	LE_STK_SEND_DATA_IM_UDP_241
<B>	sw2	LE_STK_SEND_DATA_IM_SNDCP_241
<C>	sw2	LE_STK_SEND_DATA_IM_L2R_241
	stk_cmd	EMPTY_STK_CMD

(8)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_FETCH
		p1	P1_DUMMY
		p2	P2_DUMMY
	<A>	le	LE_STK_SEND_DATA_IM_UDP_241
	<B>	le	LE_STK_SEND_DATA_IM_SNDCP_241
	<C>	le	LE_STK_SEND_DATA_IM_L2R_241
		stk_cmd	EMPTY_STK_CMD
(9)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS
		sw2	SW2_NORMAL
	<A>	stk_cmd	STK_SEND_DATA_IM_UDP_241
	<B>	stk_cmd	STK_SEND_DATA_IM_SNDCP_241
	<C>	stk_cmd	STK_SEND_DATA_IM_L2R_241
(10)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_STATUS
		p1	P1_DUMMY
		p2	P2_DUMMY
		le	LE_STATUS
		stk_cmd	EMPTY_STK_CMD
(11)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS
		sw2	SW2_NORMAL
		stk_cmd	SIM_STATUS_STK
(12)	DTI2_READY_IND		
	<A>	link_id	LINK_ID_UDP
	<B>	link_id	LINK_ID_SNDCP
	<C>	link_id	LINK_ID_L2R
(13)	DTI2_DATA_TEST_REQ		
	<A>	link_id	LINK_ID_UDP
	<B>	link_id	LINK_ID_SNDCP
	<C>	link_id	LINK_ID_L2R
	<A>	parameters	DTI_PARAMETER_FRAME_UOS
	<B>	parameters	DTI_PARAMETER_FRAME_IP
	<C>	parameters	DTI_PARAMETER_FRAME_UOS
	<A>	sdu	SDU_SEND_UDP_241
	<B>	sdu	SDU_SEND_241
	<C>	sdu	SDU_SEND_241
(14)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_TERMINAL_RESPONSE
		p1	P1_DUMMY
		p2	P2_DUMMY
		le	LE_STK_TERM_RESP_SD_IM_255
		stk_cmd	STK_TERM_RESP_SD_IM_255
(15)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS
		sw2	SW2_NORMAL
		stk_cmd	EMPTY_STK_CMD
(16)	DTI2_READY_IND		
	<A>	link_id	LINK_ID_UDP
	<B>	link_id	LINK_ID_SNDCP
	<C>	link_id	LINK_ID_L2R

History:	4-July-2002	JK	Initial
	25-Sept-2002	JK	conversion from DTI to DTI2 interface

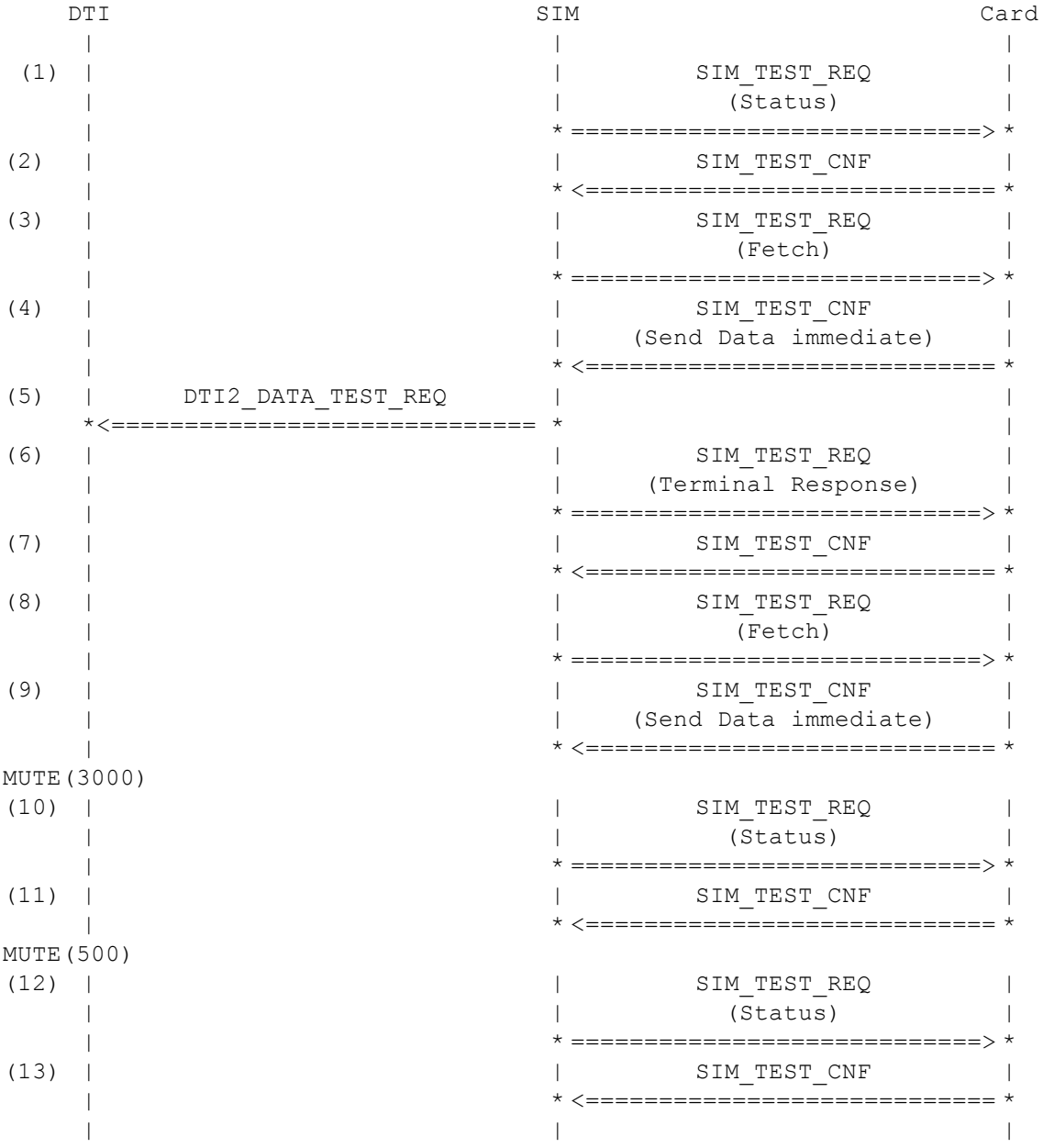
2.11.14 SIM317: Send Data over UDP protocol – the timer in the BPI channel activated.

Description:

Data transmission for a bearer independent protocol (BIP) channel. DTI communication entity is UDP. Two mute times are included in order to let the BIP-channel timer to run out. No timer run-out reaction is expected during data transmision although the release timer is being set in the preamble test case.

Preamble:

SIM307D



Parametrization

Primitive	Parameter	Value
(1) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_STATUS
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STATUS
	stk_cmd	EMPTY_STK_CMD

(2) SIM_TEST_CNF		
	sw1	SW1_SUCCESS_EXTRA_INF
	sw2	LE_STK_SEND_DATA_IM_UDP_241
	stk_cmd	SIM_STATUS_STK
(3) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_FETCH
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STK_SEND_DATA_IM_UDP_241
	stk_cmd	EMPTY_STK_CMD
(4) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
	stk_cmd	STK_SEND_DATA_IM_UDP_241
(5) DTI2_DATA_TEST_REQ		
	link_id	LINK_ID_UDP
	parameters	DTI_PARAMETER_FRAME_UOS
	sdu	SDU_SEND_UDP_241
(6) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_TERMINAL_RESPONSE
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STK_TERM_RESP_SD_IM_255
	stk_cmd	STK_TERM_RESP_SD_IM_255
(7) SIM_TEST_CNF		
	sw1	SW1_SUCCESS_EXTRA_INF
	sw2	LE_STK_SEND_DATA_IM_UDP_241
	stk_cmd	EMPTY_STK_CMD
(8) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_FETCH
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STK_SEND_DATA_IM_UDP_241
	stk_cmd	EMPTY_STK_CMD
(9) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
	stk_cmd	STK_SEND_DATA_IM_UDP_241
(10) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_STATUS
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STATUS
	stk_cmd	EMPTY_STK_CMD
(11) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
	stk_cmd	SIM_STATUS_STK

(12) SIM_TEST_REQ

cla	GSM_CLASS
ins_code	SIM_INS_STATUS
p1	P1_DUMMY
p2	P2_DUMMY
le	LE_STATUS
stk_cmd	EMPTY_STK_CMD

(13) SIM_TEST_CNF

sw1	SW1_SUCCESS
sw2	SW2_NORMAL
stk_cmd	EMPTY_STK_CMD

History:			
	4-July-2002	JK	Initial
	25-Sept-2002	JK	conversion from DTI to DTI2 interface
	17-March-2003	JK	new BIP-timer behaviour: no timer start in Rx/Tx IDLE state for UDP connection.

2.11.15 SIM318: Send Data over SNDCP and L2R protocol – the timer in the BPI channel activated.

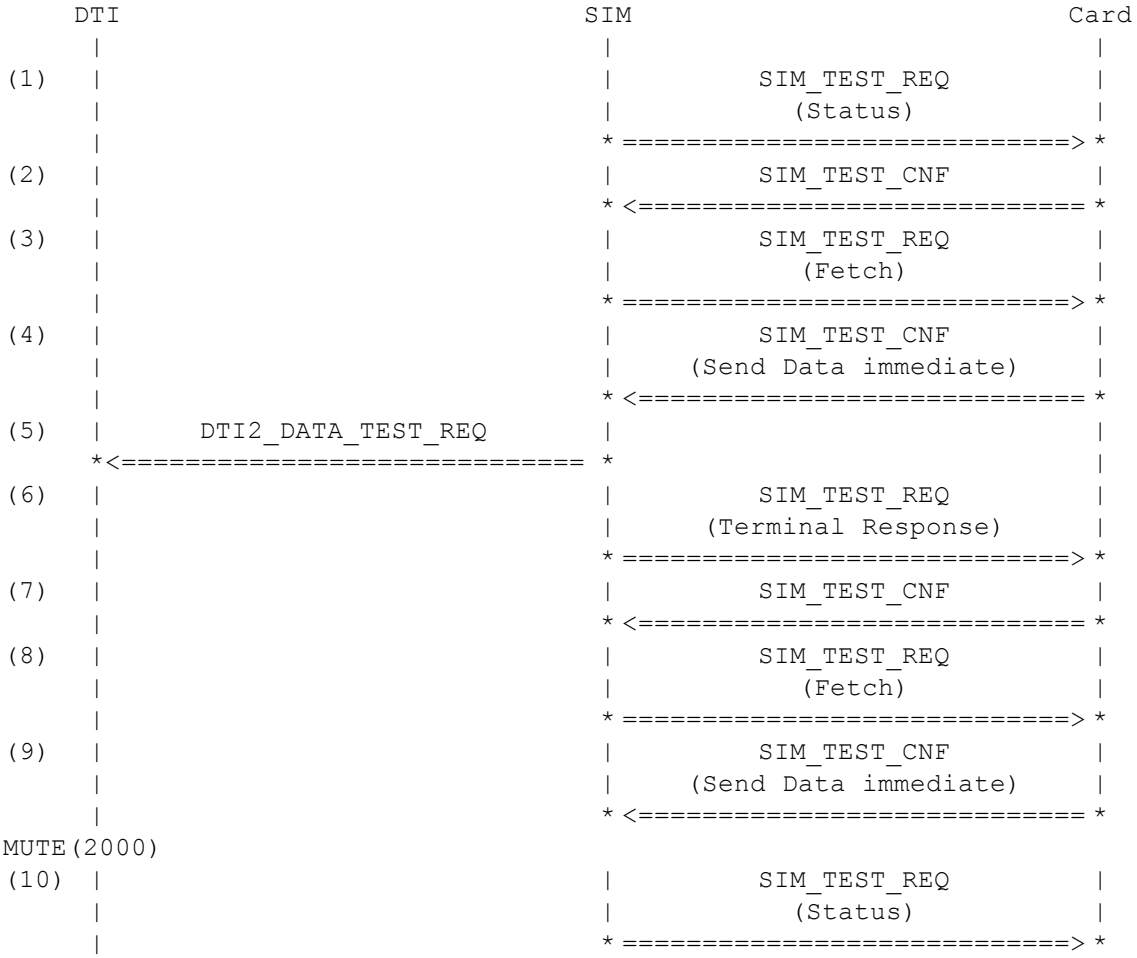
Description:

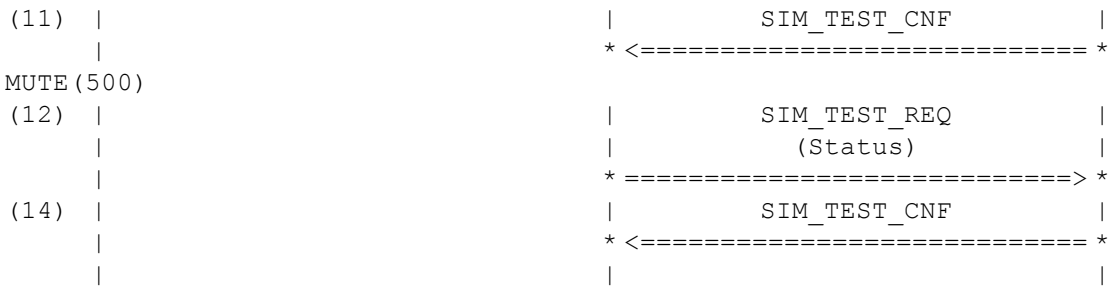
Data transmission for a bearer independent protocol (BIP) channel. DTI communication entity is
<A> SNDCP and
<B> L2R.
Two mute times are included in order to let the BIP-channel timer to run out. No timer run-out reaction is expected during data transmision although the release timer is being set in the preamble test case.

Variants: <A>...<B>

Preamble:

<A> SIM307E
<B> SIM307F





Parametrization

Primitive	Parameter	Value
(1) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_STATUS
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STATUS
	stk_cmd	EMPTY_STK_CMD
(2) SIM_TEST_CNF		
	sw1	SW1_SUCCESS_EXTRA_INF
<A>	sw2	LE_STK_SEND_DATA_IM_SNDCP_241
<B>	sw2	LE_STK_SEND_DATA_IM_L2R_241
	stk_cmd	SIM_STATUS_STK
(3) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_FETCH
	p1	P1_DUMMY
	p2	P2_DUMMY
<A>	le	LE_STK_SEND_DATA_IM_SNDCP_241
<B>	le	LE_STK_SEND_DATA_IM_L2R_241
	stk_cmd	EMPTY_STK_CMD
(4) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
<A>	stk_cmd	STK_SEND_DATA_IM_SNDCP_241
<B>	stk_cmd	STK_SEND_DATA_IM_L2R_241
(5) DTI2_DATA_TEST_REQ		
<A>	link_id	LINK_ID_SNDCP
<B>	link_id	LINK_ID_L2R
<A>	parameters	DTI_PARAMETER_FRAME_IP
<B>	parameters	DTI_PARAMETER_FRAME_UOS
	sdu	SDU_SEND_241
(6) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_TERMINAL_RESPONSE
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STK_TERM_RESP_SD_IM_255
	stk_cmd	STK_TERM_RESP_SD_IM_255
(7) SIM_TEST_CNF		
	sw1	SW1_SUCCESS_EXTRA_INF
<A>	sw2	LE_STK_SEND_DATA_IM_SNDCP_241
<B>	sw2	LE_STK_SEND_DATA_IM_L2R_241
	stk_cmd	EMPTY_STK_CMD

(8)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_FETCH
		p1	P1_DUMMY
		p2	P2_DUMMY
	<A>	le	LE_STK_SEND_DATA_IM_SNDCP_241
	<B>	le	LE_STK_SEND_DATA_IM_L2R_241
		stk_cmd	EMPTY_STK_CMD
(9)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS
		sw2	SW2_NORMAL
	<A>	stk_cmd	STK_SEND_DATA_IM_SNDCP_241
	<B>	stk_cmd	STK_SEND_DATA_IM_L2R_241
(10)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_STATUS
		p1	P1_DUMMY
		p2	P2_DUMMY
		le	LE_STATUS
		stk_cmd	EMPTY_STK_CMD
(11)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS
		sw2	SW2_NORMAL
		stk_cmd	SIM_STATUS_STK
(12)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_STATUS
		p1	P1_DUMMY
		p2	P2_DUMMY
		le	LE_STATUS
		stk_cmd	EMPTY_STK_CMD
(13)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS
		sw2	SW2_NORMAL
		stk_cmd	EMPTY_STK_CMD

History:	4-July-2002	JK	Initial
	25-Sept-2002	JK	conversion from DTI to DTI2 interface
	17-March-2003	JK	new BIP-timer behaviour: no timer start in Rx/Tx IDLE state for SNDCP and L2R connection.

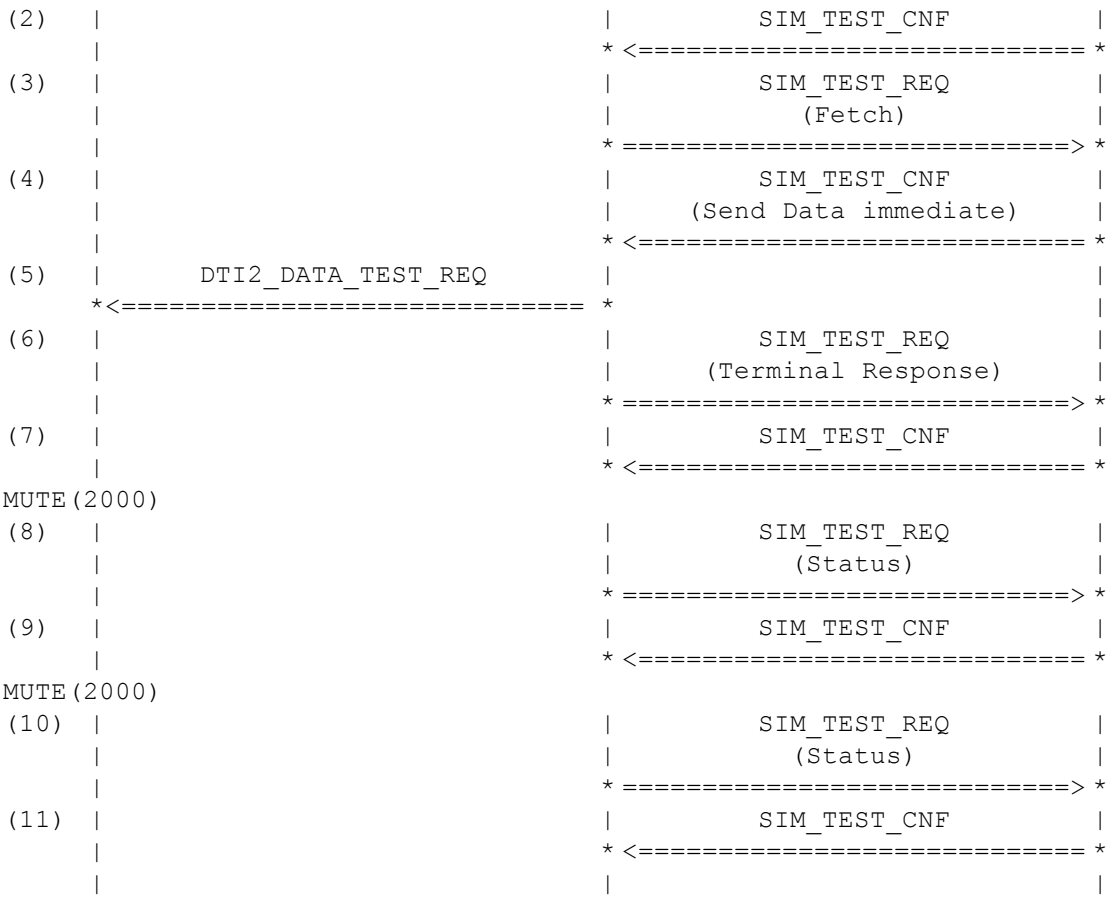
2.11.16 SIM319: Send Data over UDP protocol: BPI timer expired due to inactivity.

Description:

Data transmission for a bearer independent protocol (BIP) channel. DTI communication entity is UDP.
Two mute times are included in order to let the BIP-channel timer to run out (if this timer were started, which could be the case if ACI had set the value of release timer grater then zero during BIP connection process). In case of timer run out SIM entity cannot inform the Card immediately about closing of th data channel. This might be take place (if the BIP timer were used) at the next Send Data trial. . Accidental start and following run out of the timer would cause this test case to fail (disconnect request primitive would be sent).

Preamble:

SIM307A



Parametrization

Primitive	Parameter	Value
(1) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_STATUS
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STATUS
	stk_cmd	EMPTY_STK_CMD
(2) SIM_TEST_CNF		
	sw1	SW1_SUCCESS_EXTRA_INF
	sw2	LE_STK_SEND_DATA_IM_UDP_241
	stk_cmd	SIM_STATUS_STK
(3) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_FETCH
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STK_SEND_DATA_IM_UDP_241
	stk_cmd	EMPTY_STK_CMD
(4) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
	stk_cmd	STK_SEND_DATA_IM_UDP_241
(5) DTI2_DATA_TEST_REQ		
	link_id	LINK_ID_UDP
	parameters	DTI_PARAMETER_FRAME_UOS
	sdu	SDU_SEND_UDP_241

(6) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_TERMINAL_RESPONSE
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STK_TERM_RESP_SD_IM_255
	stk_cmd	STK_TERM_RESP_SD_IM_255
(7) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
	stk_cmd	EMPTY_STK_CMD
(8) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_STATUS
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STATUS
	stk_cmd	EMPTY_STK_CMD
(9) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
	stk_cmd	SIM_STATUS_STK
(10) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_STATUS
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STATUS
	stk_cmd	EMPTY_STK_CMD
(11) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
	stk_cmd	SIM_STATUS_STK

History:	4-July-2002	JK	Initial
	25-Sept-2002	JK	conversion from DTI to DTI2 interface
	21-March-2003	JK	new BIP-timer behaviour: no timer start in Rx/Tx IDLE state for UDP connection

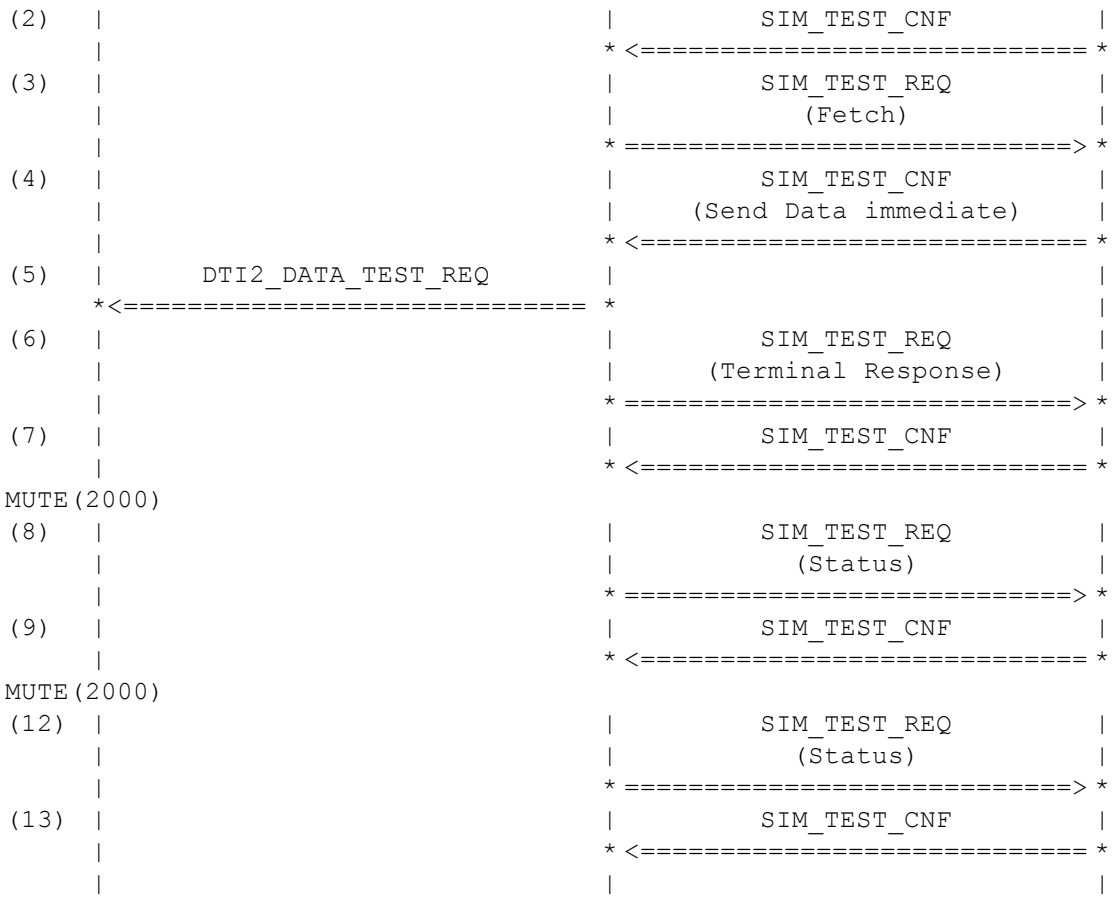
2.11.17 SIM320: Send Data over SNDCP protocol: BPI timer expired due to inactivity.

Description:

Data transmission for a bearer independent protocol (BIP) channel. DTI communication entity is SNDCP.
Two mute times are included in order to let the BIP-channel timer to run out (if this timer were started, which could be the case if ACI had set the value of release timer grater then zero during BIP connection process). In case of timer run out SIM entity cannot inform the Card immediately about closing of th data channel. This might be take place (if the BIP timer were used) at the next Send Data trial. Accidental start and following run out of the timer would cause this test case to fail (disconnect request primitive would be sent).

Preamble:

SIM307B



Parametrization

Primitive	Parameter	Value
(1) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_STATUS
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STATUS
	stk_cmd	EMPTY_STK_CMD
(2) SIM_TEST_CNF		
	sw1	SW1_SUCCESS_EXTRA_INF
	sw2	LE_STK_SEND_DATA_IM_SNDCP_241
	stk_cmd	SIM_STATUS_STK
(3) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_FETCH
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STK_SEND_DATA_IM_SNDCP_241
	stk_cmd	EMPTY_STK_CMD
(4) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
	stk_cmd	STK_SEND_DATA_IM_SNDCP_241
(5) DTI2_DATA_TEST_REQ		
	link_id	LINK_ID_SNDCP
	parameters	DTI_PARAMETER_FRAME_IP
	sdu	SDU_SEND_241

(6) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_TERMINAL_RESPONSE
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STK_TERM_RESP_SD_IM_255
	stk_cmd	STK_TERM_RESP_SD_IM_255
(7) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
	stk_cmd	EMPTY_STK_CMD
(8) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_STATUS
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STATUS
	stk_cmd	EMPTY_STK_CMD
(9) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
	stk_cmd	SIM_STATUS_STK
(10) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_STATUS
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STATUS
	stk_cmd	EMPTY_STK_CMD
(11) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
	stk_cmd	EMPTY_STK_CMD

History:	8-July-2002	JK	Initial
	25-Sept-2002	JK	conversion from DTI to DTI2 interfac
	21-March-2003	JK	new BIP-timer behaviour: no timer start in Rx/Tx IDLE state for SNDCP connection

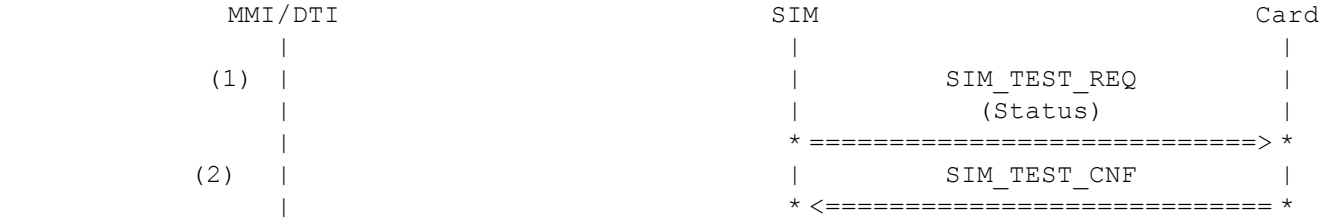
2.11.18 SIM321: Send Data over L2R protocol: BPI timer expired due to inactivity.

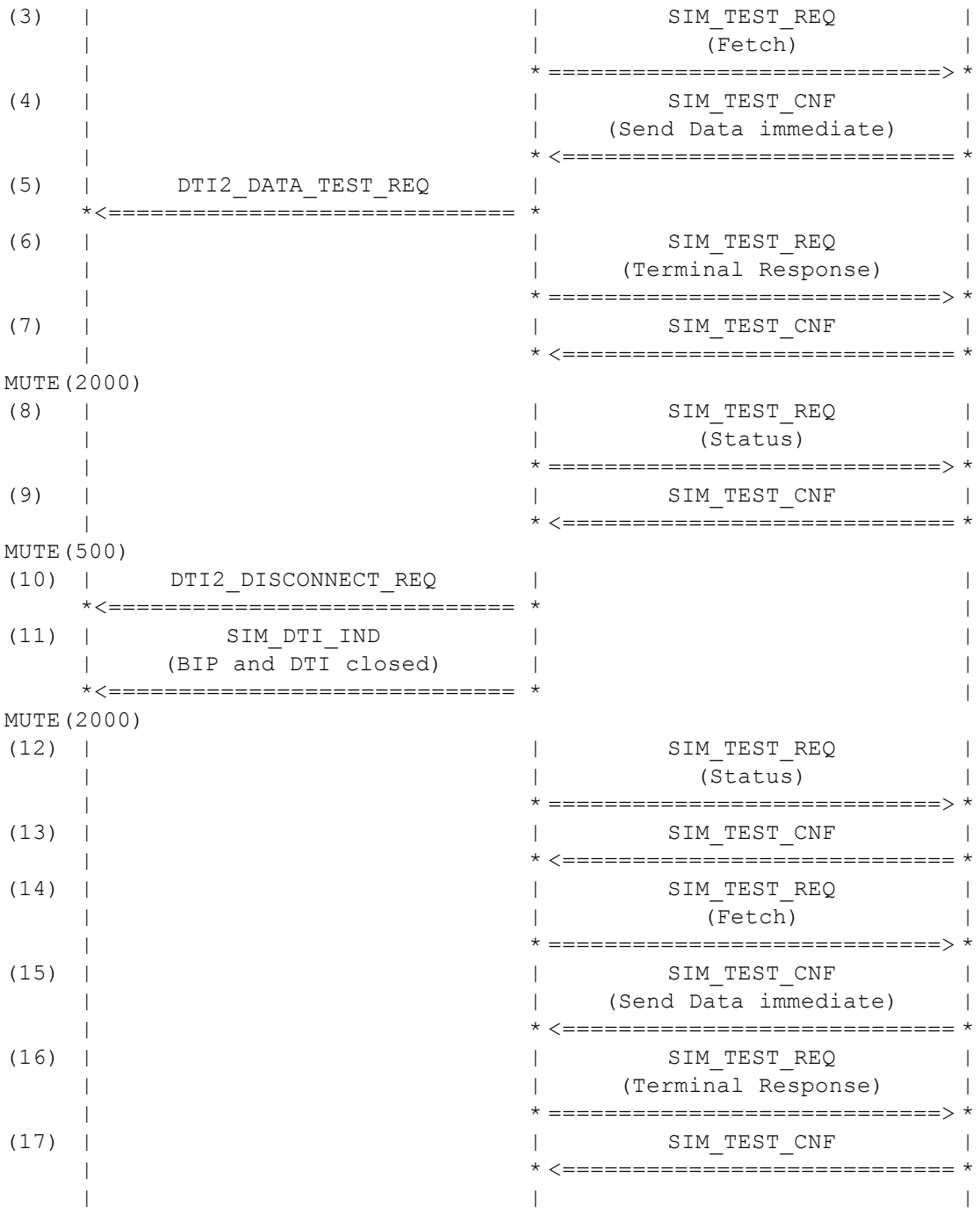
Description:

Data transmission for a bearer independent protocol (BIP) channel. DTI communication entity is L2R.
ACI sets the value of release timer grater then zero during BIP connection process: here simulated by setting this value grater then zero in one of the preambles. Two mute times are included in order to let the BIP-channel timer to run out. SIM entity cannot inform the Card immediately about closing of the data channel. This takes place at the occasion of next Send Data trial

Preamble:

SIM307F





Parametrization

Primitive	Parameter	Value
(12) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_STATUS
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STATUS
	stk_cmd	EMPTY_STK_CMD
(13) SIM_TEST_CNF		
	sw1	SW1_SUCCESS_EXTRA_INF
	sw2	LE_STK_SEND_DATA_IM_L2R_241
	stk_cmd	SIM_STATUS_STK

(14) SIM_TEST_REQ

cla	GSM_CLASS
ins_code	SIM_INS_FETCH
p1	P1_DUMMY
p2	P2_DUMMY
le	LE_STK_SEND_DATA_IM_L2R_241
stk_cmd	EMPTY_STK_CMD

(15) SIM_TEST_CNF

sw1	SW1_SUCCESS
sw2	SW2_NORMAL
stk_cmd	STK_SEND_DATA_IM_L2R_241

(16) DTI2_DATA_TEST_REQ

link_id	LINK_ID_L2R
parameters	DTI_PARAMETER_FRAME_UOS
sdu	SDU_SEND_241

(17) SIM_TEST_REQ

cla	GSM_CLASS
ins_code	SIM_INS_TERMINAL_RESPONSE
p1	P1_DUMMY
p2	P2_DUMMY
le	LE_STK_TERM_RESP_SD_IM_255
stk_cmd	STK_TERM_RESP_SD_IM_255

(18) SIM_TEST_CNF

sw1	SW1_SUCCESS
sw2	SW2_NORMAL
stk_cmd	EMPTY_STK_CMD

(19) SIM_TEST_REQ

cla	GSM_CLASS
ins_code	SIM_INS_STATUS
p1	P1_DUMMY
p2	P2_DUMMY
le	LE_STATUS
stk_cmd	EMPTY_STK_CMD

(20) SIM_TEST_CNF

sw1	SW1_SUCCESS
sw2	SW2_NORMAL
stk_cmd	SIM_STATUS_STK

(21) DTI2_DISCONNECT_REQ

link_id	LINK_ID_L2R
cause	DTI_CAUSE_NORMAL_CLOSE

(22) SIM_DTI_IND

link_id	LINK_ID_L2R
dti_conn	SIM_BIP_AND_DTI_CLOSE_RES
bip_ch_id	BIP_CH_ID_L2R

(23) SIM_TEST_REQ

cla	GSM_CLASS
ins_code	SIM_INS_STATUS
p1	P1_DUMMY
p2	P2_DUMMY
le	LE_STATUS
stk_cmd	EMPTY_STK_CMD

(24) SIM_TEST_CNF

sw1	SW1_SUCCESS_EXTRA_INF
sw2	LE_STK_SEND_DATA_IM_L2R_241
stk_cmd	EMPTY_STK_CMD

(25)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_FETCH
		p1	P1_DUMMY
		p2	P2_DUMMY
		le	LE_STK_SEND_DATA_IM_L2R_241
		stk_cmd	EMPTY_STK_CMD
(26)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS
		sw2	SW2_NORMAL
		stk_cmd	STK_SEND_DATA_IM_L2R_241
(27)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_TERMINAL_RESPONSE
		p1	P1_DUMMY
		p2	P2_DUMMY
		le	LE_STK_TERM_RESP_SD_CLOSED
		stk_cmd	STK_TERM_RESP_SD_INVALID
(28)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS
		sw2	SW2_NORMAL
		stk_cmd	EMPTY_STK_CMD

History:	8-July-2002	JK	Initial
	25-Sept-2002	JK	conversion from DTI to DTI2 interface
	21-Mar-2003	JK	new BIP-timer behaviour: no timer start in Rx/Tx IDLE state for L2R connection – no effect on this test case.

2.11.19 SIM330: Set up Event List - Data available event disabled

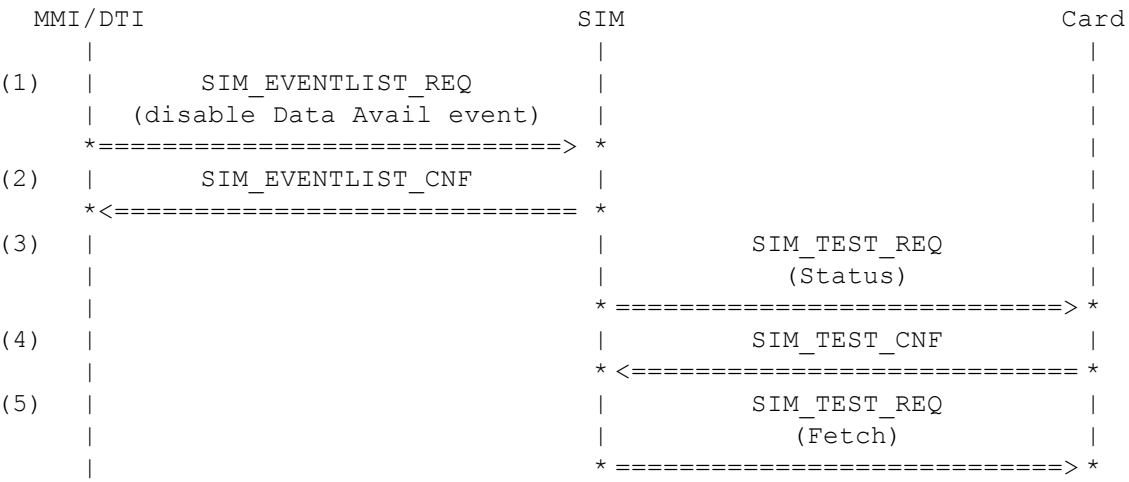
Description:

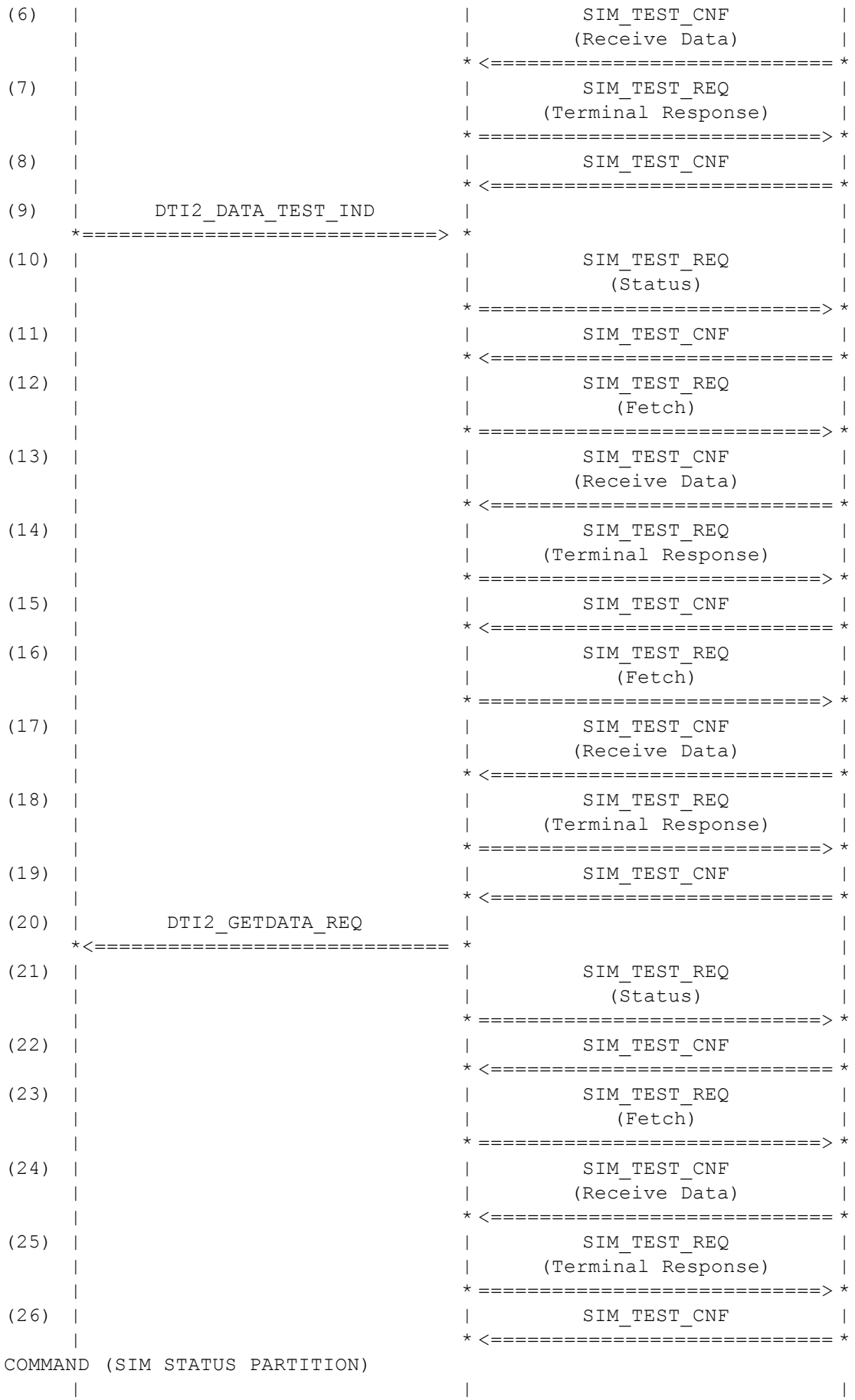
Data reception for a bearer independent protocol (BIP) channel. DTI communication entity is
<A> UDP,
<B> SNDCP and
<C> L2R.
Data available event has been disabled and the SIM card has to poll the SIM entity for received data. In first and third case the data is not available, in the second is there but must be polled by the SIM card.

Variants: <A>...<C>

Preamble:

<A> SIM305A
<B> SIM305B
<C> SIM305C




(6)
SIM_TEST_CNF
(Receive Data)
(7)
SIM_TEST_REQ
(Terminal Response)
(8)
SIM_TEST_CNF
(9)
DTI2_DATA_TEST_IND
(10)
SIM_TEST_REQ
(Status)
(11)
SIM_TEST_CNF
(12)
SIM_TEST_REQ
(Fetch)
(13)
SIM_TEST_CNF
(Receive Data)
(14)
SIM_TEST_REQ
(Terminal Response)
(15)
SIM_TEST_CNF
(16)
SIM_TEST_REQ
(Fetch)
(17)
SIM_TEST_CNF
(Receive Data)
(18)
SIM_TEST_REQ
(Terminal Response)
(19)
SIM_TEST_CNF
(20)
DTI2_GETDATA_REQ
(21)
SIM_TEST_REQ
(Status)
(22)
SIM_TEST_CNF
(23)
SIM_TEST_REQ
(Fetch)
(24)
SIM_TEST_CNF
(Receive Data)
(25)
SIM_TEST_REQ
(Terminal Response)
(26)
SIM_TEST_CNF
COMMAND (SIM STATUS PARTITION)

Parametrization

Primitive	Parameter	Value
(1) SIM_EVENTLIST_REQ		
	event_data_avail	SIM_EVENT_DISABLE
(2) SIM_EVENTLIST_CNF		
	event_data_avail	SIM_EVENT_DISABLE
(3) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_STATUS
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STATUS
	stk_cmd	EMPTY_STK_CMD
(4) SIM_TEST_CNF		
	sw1	SW1_SUCCESS_EXTRA_INF
<A>	sw2	LE_STK_RCV_DATA_UDP_235
<B>	sw2	LE_STK_RCV_DATA_SNDCP_235
<C>	sw2	LE_STK_RCV_DATA_L2R_235
	stk_cmd	SIM_STATUS_STK
(5) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_FETCH
	p1	P1_DUMMY
	p2	P2_DUMMY
<A>	le	LE_STK_RCV_DATA_UDP_235
<B>	le	LE_STK_RCV_DATA_SNDCP_235
<C>	le	LE_STK_RCV_DATA_L2R_235
	stk_cmd	EMPTY_STK_CMD
(6) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
<A>	stk_cmd	STK_RCV_DATA_UDP_235
<B>	stk_cmd	STK_RCV_DATA_SNDCP_235
<C>	stk_cmd	STK_RCV_DATA_L2R_235
(7) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_TERMINAL_RESPONSE
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STK_TERM_RESP_RD_0_0
	stk_cmd	STK_TERM_RESP_RD_0_0
(8) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
	stk_cmd	EMPTY_STK_CMD
(9) DTI2_DATA_TEST_IND		
<A>	link_id	LINK_ID_UDP
<B>	link_id	LINK_ID_SNDCP
<C>	link_id	LINK_ID_L2R
<A>	parameters	DTI_PARAMETER_FRAME_UOS
<B>	parameters	DTI_PARAMETER_FRAME_IP
<C>	parameters	DTI_PARAMETER_FRAME_UOS
<A>	sdu	SDU_RECEIVE_UDP_470
<B>	sdu	SDU_RECEIVE_470
<C>	sdu	SDU_RECEIVE_470

(10) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_STATUS
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STATUS
	stk_cmd	EMPTY_STK_CMD
(11) SIM_TEST_CNF		
	sw1	SW1_SUCCESS_EXTRA_INF
<A>	sw2	LE_STK_RCV_DATA_UDP_235
<B>	sw2	LE_STK_RCV_DATA_SNDCP_235
<C>	sw2	LE_STK_RCV_DATA_L2R_235
	stk_cmd	SIM_STATUS_STK
(12) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_FETCH
	p1	P1_DUMMY
	p2	P2_DUMMY
<A>	le	LE_STK_RCV_DATA_UDP_235
<B>	le	LE_STK_RCV_DATA_SNDCP_235
<C>	le	LE_STK_RCV_DATA_L2R_235
	stk_cmd	EMPTY_STK_CMD
(13) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
<A>	stk_cmd	STK_RCV_DATA_UDP_235
<B>	stk_cmd	STK_RCV_DATA_SNDCP_235
<C>	stk_cmd	STK_RCV_DATA_L2R_235
(14) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_TERMINAL_RESPONSE
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STK_TERM_RESP_RD_235_235
	stk_cmd	STK_TERM_RESP_RD_235_235
(15) SIM_TEST_CNF		
	sw1	SW1_SUCCESS_EXTRA_INF
<A>	sw2	LE_STK_RCV_DATA_UDP_235
<B>	sw2	LE_STK_RCV_DATA_SNDCP_235
<C>	sw2	LE_STK_RCV_DATA_L2R_235
	stk_cmd	EMPTY_STK_CMD
(16) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_FETCH
	p1	P1_DUMMY
	p2	P2_DUMMY
<A>	le	LE_STK_RCV_DATA_UDP_235
<B>	le	LE_STK_RCV_DATA_SNDCP_235
<C>	le	LE_STK_RCV_DATA_L2R_235
	stk_cmd	EMPTY_STK_CMD
(17) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
<A>	stk_cmd	STK_RCV_DATA_UDP_235
<B>	stk_cmd	STK_RCV_DATA_SNDCP_235
<C>	stk_cmd	STK_RCV_DATA_L2R_235

(18) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_TERMINAL_RESPONSE
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STK_TERM_RESP_RD_235_0
	stk_cmd	STK_TERM_RESP_RD_235_0
(19) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
	stk_cmd	EMPTY_STK_CMD
(20) DTI2_GETDATA_REQ		
<A>	link_id	LINK_ID_UDP
<B>	link_id	LINK_ID_SNDCP
<C>	link_id	LINK_ID_L2R
(21) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_STATUS
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STATUS
	stk_cmd	EMPTY_STK_CMD
(22) SIM_TEST_CNF		
	sw1	SW1_SUCCESS_EXTRA_INF
<A>	sw2	LE_STK_RCV_DATA_UDP_235
<B>	sw2	LE_STK_RCV_DATA_SNDCP_235
<C>	sw2	LE_STK_RCV_DATA_L2R_235
	stk_cmd	SIM_STATUS_STK
(23) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_FETCH
	p1	P1_DUMMY
	p2	P2_DUMMY
<A>	le	LE_STK_RCV_DATA_UDP_235
<B>	le	LE_STK_RCV_DATA_SNDCP_235
<C>	le	LE_STK_RCV_DATA_L2R_235
	stk_cmd	EMPTY_STK_CMD
(24) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
<A>	stk_cmd	STK_RCV_DATA_UDP_235
<B>	stk_cmd	STK_RCV_DATA_SNDCP_235
<C>	stk_cmd	STK_RCV_DATA_L2R_235
(25) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_TERMINAL_RESPONSE
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STK_TERM_RESP_RD_0_0
	stk_cmd	STK_TERM_RESP_RD_0_0
(26) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
	stk_cmd	EMPTY_STK_CMD

History:	9-July-2002	JK	Initial
	25-Sept-2002	JK	conversion from DTI to DTI2 interface

2.11.20 SIM340: Send Data – suspend the BPI channel timer.

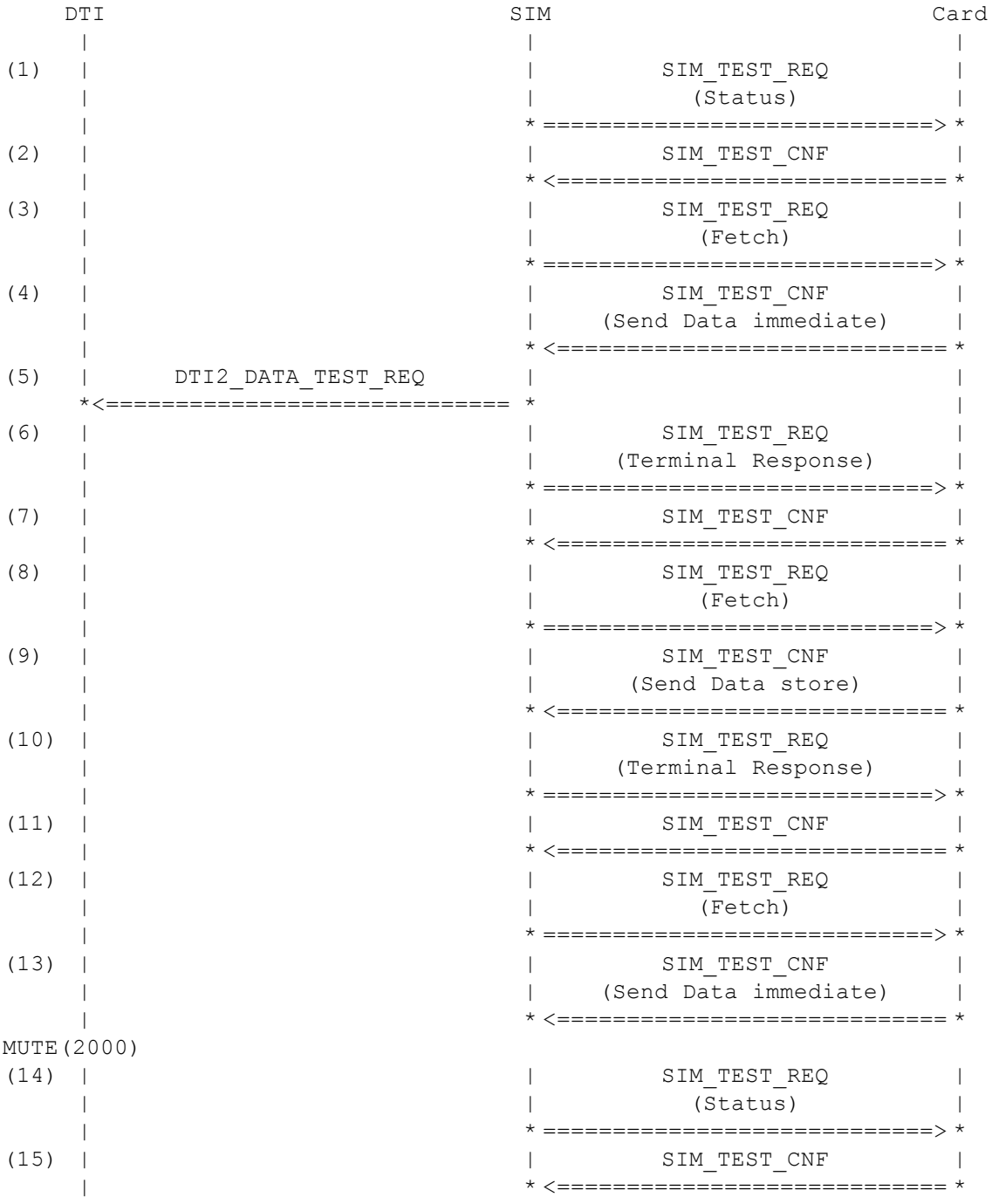
Description:

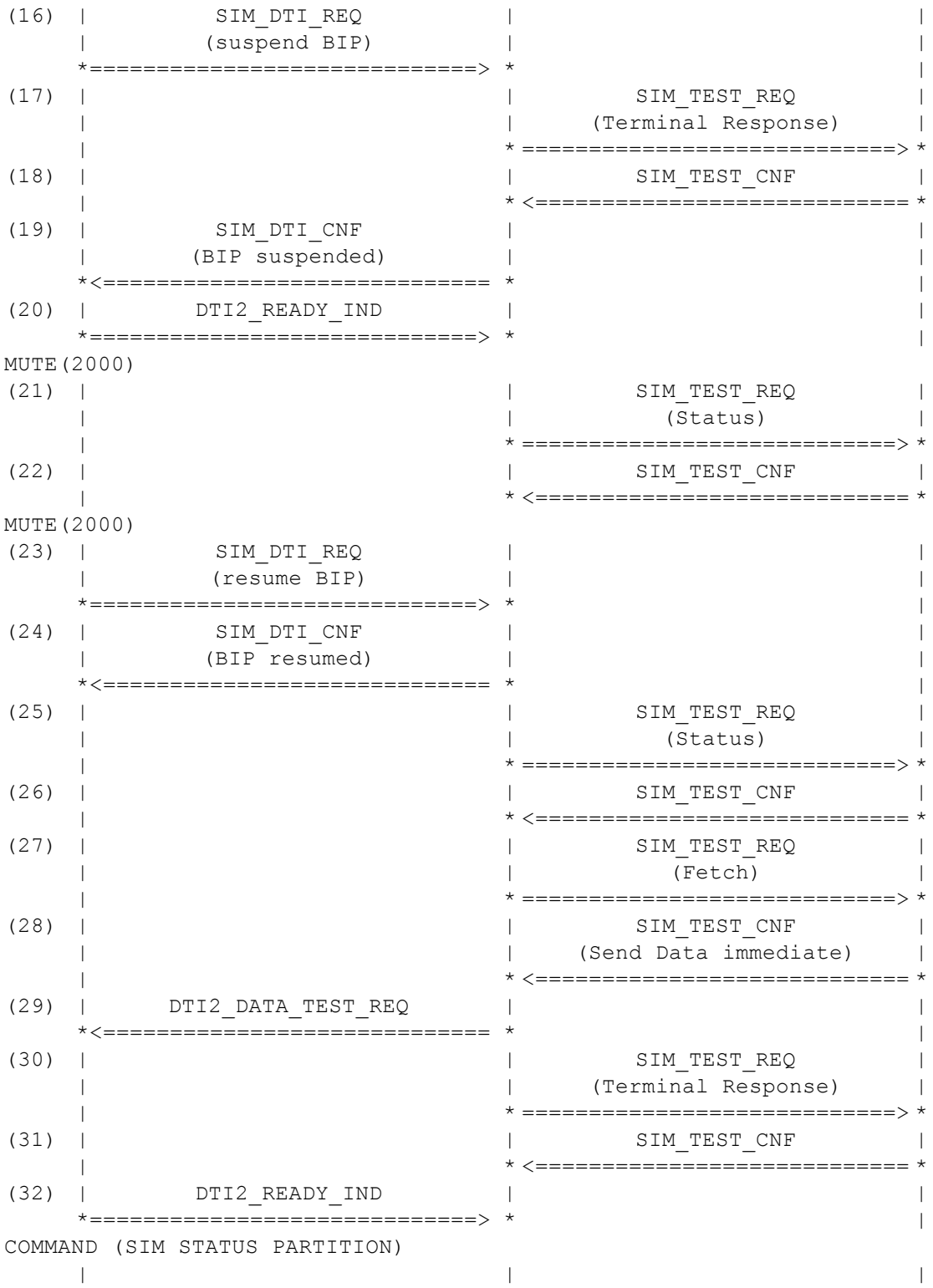
Data transmission for a bearer independent protocol (BIP) channel. DTI communication entity is
<A> UDP,
<B> SNDCP and
<C> L2R.
Two mute times are included who nevertheless do not let the BIP-channel timer to run out.

Variants: <A>...<C>

Preamble:

<A> SIM316A
<B> SIM316B
<C> SIM316C





Parametrization

Primitive	Parameter	Value
(1) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_STATUS
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STATUS
	stk_cmd	EMPTY_STK_CMD

(2)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS_EXTRA_INF
	<A>	sw2	LE_STK_SEND_DATA_IM_UDP_241
	<B>	sw2	LE_STK_SEND_DATA_IM_SNDCP_241
	<C>	sw2	LE_STK_SEND_DATA_IM_L2R_241
		stk_cmd	SIM_STATUS_STK
(3)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_FETCH
		p1	P1_DUMMY
		p2	P2_DUMMY
	<A>	le	LE_STK_SEND_DATA_IM_UDP_241
	<B>	le	LE_STK_SEND_DATA_IM_SNDCP_241
	<C>	le	LE_STK_SEND_DATA_IM_L2R_241
		stk_cmd	EMPTY_STK_CMD
(4)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS
		sw2	SW2_NORMAL
	<A>	stk_cmd	STK_SEND_DATA_IM_UDP_241
	<B>	stk_cmd	STK_SEND_DATA_IM_SNDCP_241
	<C>	stk_cmd	STK_SEND_DATA_IM_L2R_241
(5)	DTI2_DATA_TEST_REQ		
	<A>	link_id	LINK_ID_UDP
	<B>	link_id	LINK_ID_SNDCP
	<C>	link_id	LINK_ID_L2R
	<A>	parameters	DTI_PARAMETER_FRAME_UOS
	<B>	parameters	DTI_PARAMETER_FRAME_IP
	<C>	parameters	DTI_PARAMETER_FRAME_UOS
	<A>	sdu	SDU_SEND_UDP_241
	<B>	sdu	SDU_SEND_241
	<C>	sdu	SDU_SEND_241
(6)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_TERMINAL_RESPONSE
		p1	P1_DUMMY
		p2	P2_DUMMY
		le	LE_STK_TERM_RESP_SD_IM_255
		stk_cmd	STK_TERM_RESP_SD_IM_255
(7)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS_EXTRA_INF
	<A>	sw2	LE_STK_SEND_DATA_ST_UDP_241
	<B>	sw2	LE_STK_SEND_DATA_ST_SNDCP_241
	<C>	sw2	LE_STK_SEND_DATA_ST_L2R_241
		stk_cmd	EMPTY_STK_CMD
(8)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_FETCH
		p1	P1_DUMMY
		p2	P2_DUMMY
	<A>	le	LE_STK_SEND_DATA_ST_UDP_241
	<B>	le	LE_STK_SEND_DATA_ST_SNDCP_241
	<C>	le	LE_STK_SEND_DATA_ST_L2R_241
		stk_cmd	EMPTY_STK_CMD

(9) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
<A>	stk_cmd	STK_SEND_DATA_ST_UDP_241
<B>	stk_cmd	STK_SEND_DATA_ST_SNDCP_241
<C>	stk_cmd	STK_SEND_DATA_ST_L2R_241
(10) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_TERMINAL_RESPONSE
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STK_TERM_RESP_SD_ST_255
	stk_cmd	STK_TERM_RESP_SD_ST_255
(11) SIM_TEST_CNF		
	sw1	SW1_SUCCESS_EXTRA_INF
<A>	sw2	LE_STK_SEND_DATA_IM_UDP_241
<B>	sw2	LE_STK_SEND_DATA_IM_SNDCP_241
<C>	sw2	LE_STK_SEND_DATA_IM_L2R_241
	stk_cmd	EMPTY_STK_CMD
(12) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_FETCH
	p1	P1_DUMMY
	p2	P2_DUMMY
<A>	le	LE_STK_SEND_DATA_IM_UDP_241
<B>	le	LE_STK_SEND_DATA_IM_SNDCP_241
<C>	le	LE_STK_SEND_DATA_IM_L2R_241
	stk_cmd	EMPTY_STK_CMD
(13) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
<A>	stk_cmd	STK_SEND_DATA_IM_UDP_241
<B>	stk_cmd	STK_SEND_DATA_IM_SNDCP_241
<C>	stk_cmd	STK_SEND_DATA_IM_L2R_241
(14) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_STATUS
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STATUS
	stk_cmd	EMPTY_STK_CMD
(15) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
	stk_cmd	SIM_STATUS_STK

(16)	SIM_DTI_REQ		
		link_id	NOT_PRESENT_32BIT
		dti_conn	SIM_BIP_CHANNEL_SUSPENDED
	<A>	bip_ch_id	BIP_CH_ID_UDP
	<B>	bip_ch_id	BIP_CH_ID_SNDCP
	<C>	bip_ch_id	BIP_CH_ID_L2R
		con_type	SIM_CON_TYPE_UDP
		dti_direction	SEND_REQUESTS
		entity_name	NOT_PRESENT_32BIT
		local_ip	SIM_IP_LOCAL_DYNAMIC
		destination_ip	DESTINATION_IP
		destination_port	DESTINATION_PORT
		general_result	RSLT_ME_UNAB_PROC
		add_info_result	ADD_ME_CALL_BUSY
		release_time	SIM_NO_AUTO_RELEASE
(17)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_TERMINAL_RESPONSE
		p1	P1_DUMMY
		p2	P2_DUMMY
		le	LE_STK_TERM_RESP_SD_SUSPEND
		stk_cmd	STK_TERM_RESP_SD_SUSPEND
(18)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS
		sw2	SW2_NORMAL
		stk_cmd	EMPTY_STK_CMD
(19)	SIM_DTI_CNF		
		link_id	NOT_PRESENT_32BIT
		dti_conn	SIM_BIP_AND_DTI_OPEN_SUS
	<A>	bip_ch_id	BIP_CH_ID_UDP
	<B>	bip_ch_id	BIP_CH_ID_SNDCP
	<C>	bip_ch_id	BIP_CH_ID_L2R
(20)	DTI2_READY_IND		
	<A>	link_id	LINK_ID_UDP
	<B>	link_id	LINK_ID_SNDCP
	<C>	link_id	LINK_ID_L2R
(21)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_STATUS
		p1	P1_DUMMY
		p2	P2_DUMMY
		le	LE_STATUS
		stk_cmd	EMPTY_STK_CMD
(22)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS
		sw2	SW2_NORMAL
		stk_cmd	SIM_STATUS_STK

(23)	SIM_DTI_REQ		
		link_id	NOT_PRESENT_32BIT
		dti_conn	SIM_BIP_CHANNEL_RESUMED
	<A>	bip_ch_id	BIP_CH_ID_UDP
	<B>	bip_ch_id	BIP_CH_ID_SNDCP
	<C>	bip_ch_id	BIP_CH_ID_L2R
		con_type	SIM_CON_TYPE_UDP
		dti_direction	SEND_REQUESTS
		entity_name	NOT_PRESENT_32BIT
		local_ip	SIM_IP_LOCAL_DYNAMIC
		destination_ip	DESTINATION_IP
		destination_port	DESTINATION_PORT
		general_result	RSLT_PERF_SUCCESS
		add_info_result	ADD_NO_CAUSE
		release_time	SIM_NO_AUTO_RELEASE
(24)	SIM_DTI_CNF		
		link_id	NOT_PRESENT_32BIT
		dti_conn	SIM_BIP_AND_DTI_OPEN_RES
	<A>	bip_ch_id	BIP_CH_ID_UDP
	<B>	bip_ch_id	BIP_CH_ID_SNDCP
	<C>	bip_ch_id	BIP_CH_ID_L2R
(25)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_STATUS
		p1	P1_DUMMY
		p2	P2_DUMMY
		le	LE_STATUS
		stk_cmd	EMPTY_STK_CMD
(26)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS_EXTRA_INF
	<A>	sw2	LE_STK_SEND_DATA_IM_UDP_241
	<B>	sw2	LE_STK_SEND_DATA_IM_SNDCP_241
	<C>	sw2	LE_STK_SEND_DATA_IM_L2R_241
		stk_cmd	SIM_STATUS_STK
(27)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_FETCH
		p1	P1_DUMMY
		p2	P2_DUMMY
	<A>	le	LE_STK_SEND_DATA_IM_UDP_241
	<B>	le	LE_STK_SEND_DATA_IM_SNDCP_241
	<C>	le	LE_STK_SEND_DATA_IM_L2R_241
		stk_cmd	EMPTY_STK_CMD
(28)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS
		sw2	SW2_NORMAL
	<A>	stk_cmd	STK_SEND_DATA_IM_UDP_241
	<B>	stk_cmd	STK_SEND_DATA_IM_SNDCP_241
	<C>	stk_cmd	STK_SEND_DATA_IM_L2R_241

(29)	DTI2_DATA_TEST_REQ		
	<A>	link_id	LINK_ID_UDP
	<B>	link_id	LINK_ID_SNDCP
	<C>	link_id	LINK_ID_L2R
	<A>	parameters	DTI_PARAMETER_FRAME_UOS
	<B>	parameters	DTI_PARAMETER_FRAME_IP
	<C>	parameters	DTI_PARAMETER_FRAME_UOS
	<A>	sdu	SDU_SEND_UDP_482
	<B>	sdu	SDU_SEND_482
	<C>	sdu	SDU_SEND_482
(30)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_TERMINAL_RESPONSE
		p1	P1_DUMMY
		p2	P2_DUMMY
		le	LE_STK_TERM_RESP_SD_IM_255
		stk_cmd	STK_TERM_RESP_SD_IM_255
(31)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS
		sw2	SW2_NORMAL
		stk_cmd	EMPTY_STK_CMD
(32)	DTI2_READY_IND		
	<A>	link_id	LINK_ID_UDP
	<B>	link_id	LINK_ID_SNDCP
	<C>	link_id	LINK_ID_L2R

History:	11-Jul-2002	JK	Initial
	25-Sept-2002	JK	conversion from DTI to DTI2 interface

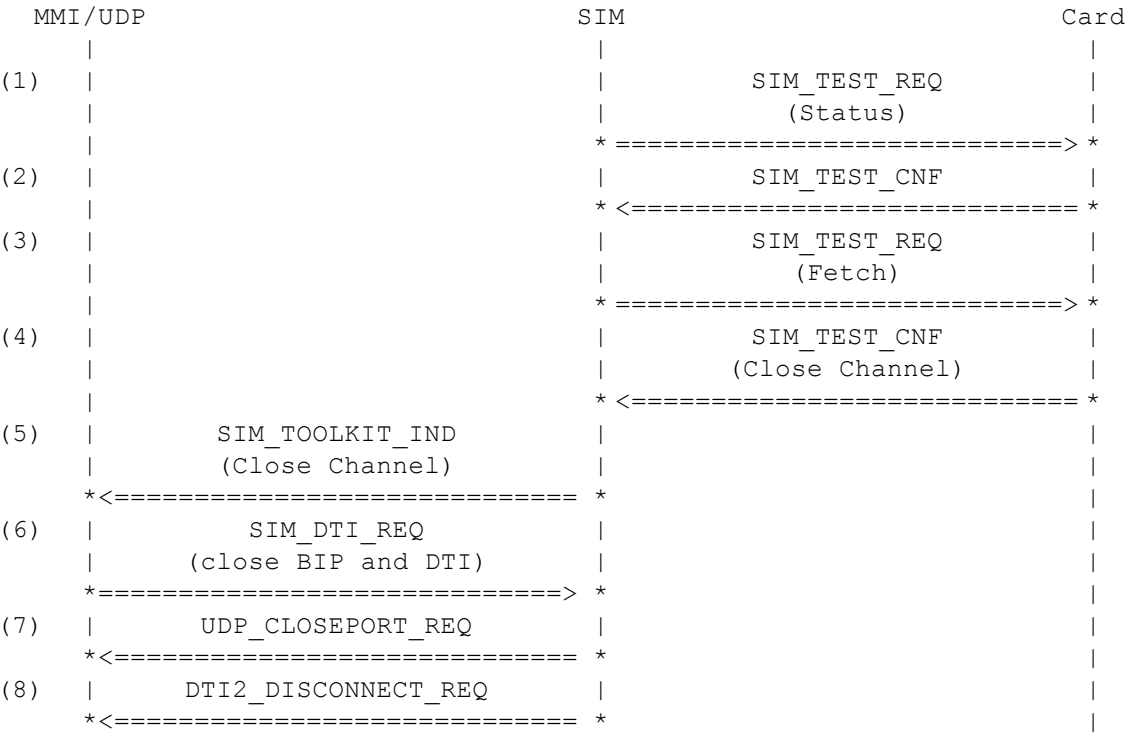
2.11.21 SIM350: Close Channel SIM card initiated on transport layer level

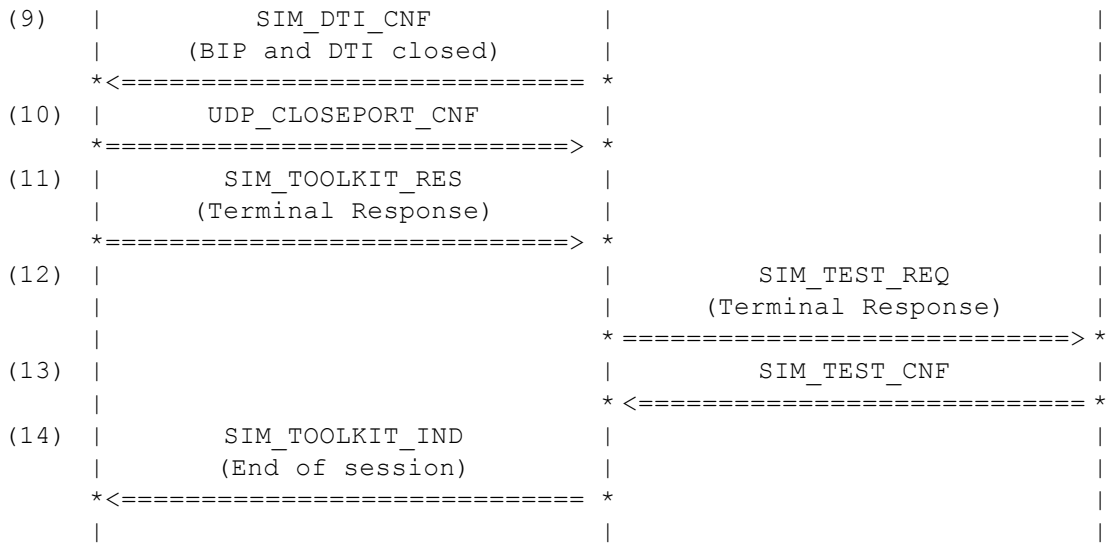
Description:

The SIM card requests a close of a bearer independent protocol (BIP) channel. The channel was connected to UDP.

Preamble:

SIM311A





Parametrization

Primitive	Parameter	Value
(1) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_STATUS
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STATUS
	stk_cmd	EMPTY_STK_CMD
(2) SIM_TEST_CNF		
	sw1	SW1_SUCCESS_EXTRA_INF
	sw2	LE_STK_CLOSE_CHANNEL_UDP
	stk_cmd	SIM_STATUS_STK
(3) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_FETCH
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STK_CLOSE_CHANNEL_UDP
	stk_cmd	EMPTY_STK_CMD
(4) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
	stk_cmd	STK_CLOSE_CHANNEL_UDP
(5) SIM_TOOLKIT_IND		
	stk_cmd	STK_CLOSE_CHANNEL_UDP
(6) SIM_DTI_REQ		
	link_id	NOT_PRESENT_32BIT
	dti_conn	SIM_BIP_AND_DTI_CLOSE
	bip_ch_id	BIP_CH_ID_UDP
	con_type	SIM_CON_TYPE_UDP
	dti_direction	SEND_REQUESTS
	entity_name	NOT_PRESENT_32BIT
	local_ip	SIM_IP_LOCAL_DYNAMIC
	destination_ip	DESTINATION_IP
	destination_port	DESTINATION_PORT
	general_result	RSLT_PERF_SUCCESS
	add_info_result	ADD_NO_CAUSE
	release_time	SIM_NO_AUTO_RELEASE

(7) UDP_CLOSEPORT_REQ		
	port	UDP_SRC_PORT
(8) DTI2_DISCONNECT_REQ		
	link_id	LINK_ID_UDP
	cause	DTI_CAUSE_NORMAL_CLOSE
(9) SIM_DTI_CNF		
	link_id	NOT_PRESENT_32BIT
	dti_conn	SIM_BIP_AND_DTI_CLOSE_RES
	bip_ch_id	BIP_CH_ID_UDP
(10) UDP_CLOSEPORT_CNF		
(11) SIM_TOOLKIT_RES		
	stk_cmd	STK_TERM_RESP_CLCH
(12) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_TERMINAL_RESPONSE
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STK_TERM_RESP_CLCH
	stk_cmd	STK_TERM_RESP_CLCH
(13) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
	stk_cmd	EMPTY_STK_CMD
(14) SIM_TOOLKIT_IND		
	stk_cmd	EMPTY_STK_CMD

History:	08-May-2002	STW	Initial
	07-May-2002	JK	-dp option of tap2.exe satisfied

2.11.22 SIM351: Close Channel SIM card initiated on bearer level

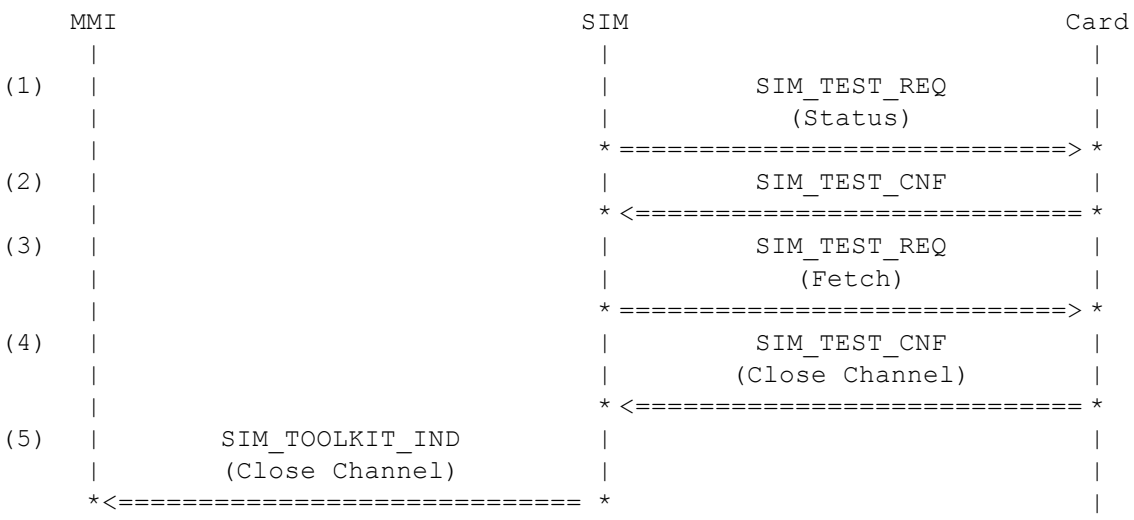
Description:

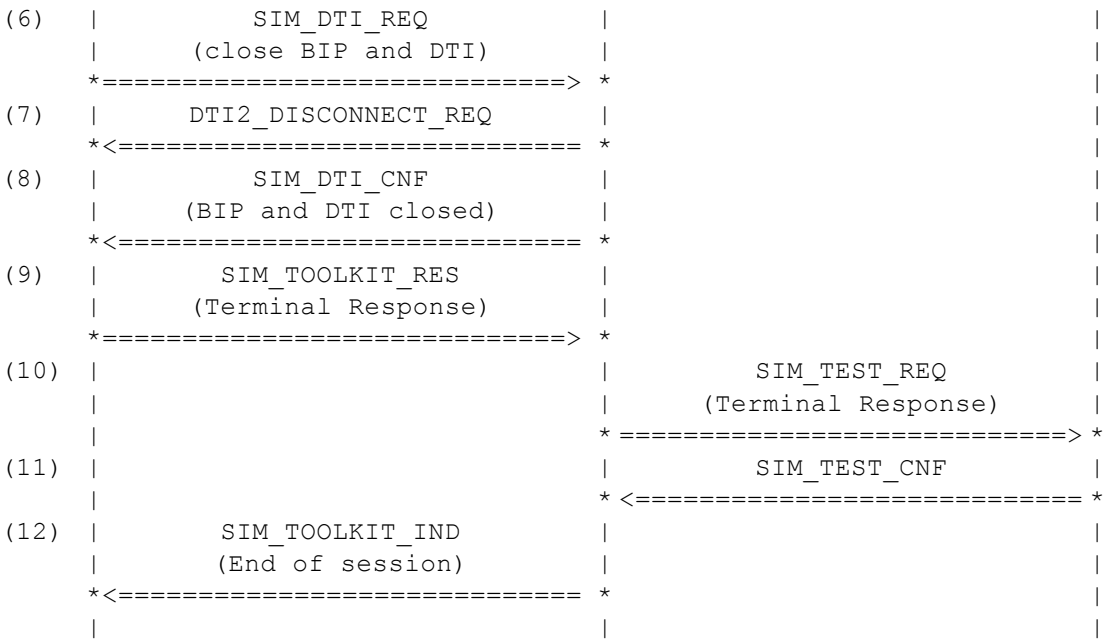
The SIM card requests a close of a bearer independent protocol (BIP) channel. The channel was connected to:
<A> SNDCP and
<B> L2R.

Variants: <A>...<B>

Preamble:

<A> SIM311B
<B> SIM311C





Parametrization

Primitive	Parameter	Value
(1) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_STATUS
	p1	P1_DUMMY
	p2	P2_DUMMY
	le	LE_STATUS
	stk_cmd	EMPTY_STK_CMD
(2) SIM_TEST_CNF		
	sw1	SW1_SUCCESS_EXTRA_INF
<A>	sw2	LE_STK_CLOSE_CHANNEL_SNDCP
<B>	sw2	LE_STK_CLOSE_CHANNEL_L2R
	stk_cmd	SIM_STATUS_STK
(3) SIM_TEST_REQ		
	cla	GSM_CLASS
	ins_code	SIM_INS_FETCH
	p1	P1_DUMMY
	p2	P2_DUMMY
<A>	le	LE_STK_CLOSE_CHANNEL_SNDCP
<B>	le	LE_STK_CLOSE_CHANNEL_L2R
	stk_cmd	EMPTY_STK_CMD
(4) SIM_TEST_CNF		
	sw1	SW1_SUCCESS
	sw2	SW2_NORMAL
<A>	stk_cmd	STK_CLOSE_CHANNEL_SNDCP
<B>	stk_cmd	STK_CLOSE_CHANNEL_L2R
(5) SIM_TOOLKIT_IND		
<A>	stk_cmd	STK_CLOSE_CHANNEL_SNDCP
<B>	stk_cmd	STK_CLOSE_CHANNEL_L2R

(6)	SIM_DTI_REQ		
		link_id	NOT_PRESENT_32BIT
		dti_conn	SIM_BIP_AND_DTI_CLOSE
	<A>	bip_ch_id	BIP_CH_ID_SNDCP
	<B>	bip_ch_id	BIP_CH_ID_L2R
		con_type	SIM_CON_TYPE_UDP
		dti_direction	SEND_REQUESTS
		entity_name	NOT_PRESENT_32BIT
		local_ip	SIM_IP_LOCAL_DYNAMIC
		destination_ip	DESTINATION_IP
		destination_port	DESTINATION_PORT
		general_result	RSLT_PERF_SUCCESS
		add_info_result	ADD_NO_CAUSE
		release_time	SIM_NO_AUTO_RELEASE
(7)	DTI2_DISCONNECT_REQ		
	<A>	link_id	LINK_ID_SNDCP
	<B>	link_id	LINK_ID_L2R
		cause	DTI_CAUSE_NORMAL_CLOSE
(8)	SIM_DTI_CNF		
		link_id	NOT_PRESENT_32BIT
		dti_conn	SIM_BIP_AND_DTI_CLOSE_RES
	<A>	bip_ch_id	BIP_CH_ID_SNDCP
	<B>	bip_ch_id	BIP_CH_ID_L2R
(9)	SIM_TOOLKIT_RES		
		stk_cmd	STK_TERM_RESP_CLCH
(10)	SIM_TEST_REQ		
		cla	GSM_CLASS
		ins_code	SIM_INS_TERMINAL_RESPONSE
		p1	P1_DUMMY
		p2	P2_DUMMY
		le	LE_STK_TERM_RESP_CLCH
		stk_cmd	STK_TERM_RESP_CLCH
(11)	SIM_TEST_CNF		
		sw1	SW1_SUCCESS
		sw2	SW2_NORMAL
		stk_cmd	EMPTY_STK_CMD
(12)	SIM_TOOLKIT_IND		
		stk_cmd	EMPTY_STK_CMD

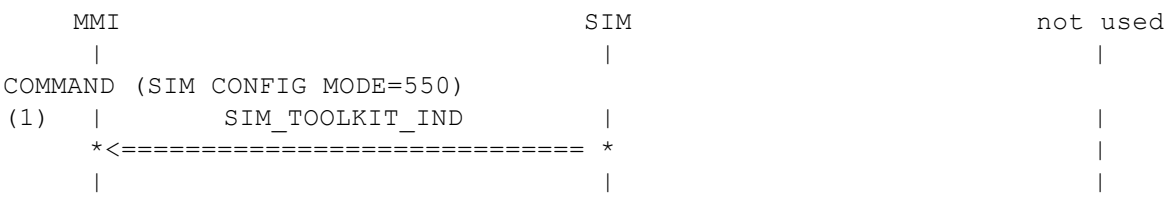
History: 08-May-2002 STW Initial

2.12 SIM Toolkit — SAT class c

2.12.1 SIM360: Launch Browser use default URL

Description: The SIM toolkit requests to launch a browser with an implicit browser open if the browser is not opened. The default URL is used. The total length of the command is less than 128 characters. So the length is coded in one byte. The command itself is forwarded to MMI.

Preamble: SIM200E



Parametrization

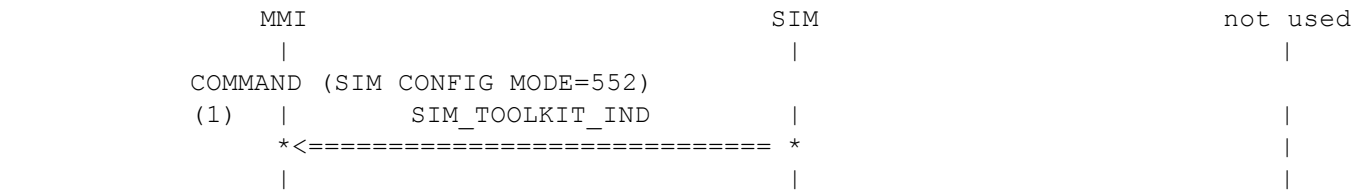
Primitive		Parameter	Value
(1)	SIM_TOOLKIT_IND		
		stk_cmd	STK_LAUNCH_BROWSER_INL_00

History: 17-Apr-2002 STW Initial

2.12.2 SIM361: Launch Browser use fixed URL

Description: The SIM toolkit requests to launch a browser with an implicit browser open if the browser is not opened. A fixed URL is used. The total length of the command is less than 128 characters. So the length is coded in one byte. The command itself is forwarded to MMI.

Preamble: SIM200E



Parametrization

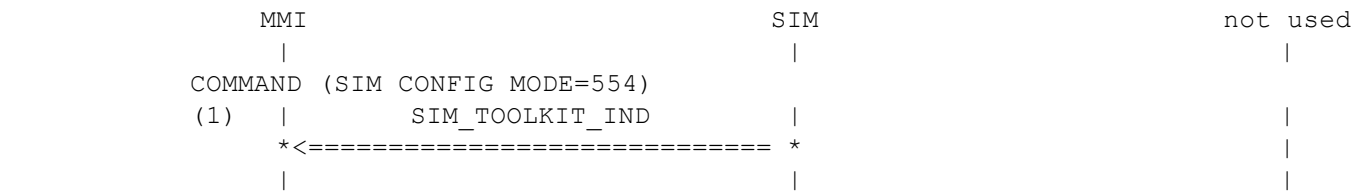
Primitive		Parameter	Value
(1)	SIM_TOOLKIT_IND		
		stk_cmd	STK_LAUNCH_BROWSER_INL

History: 17-Apr-2002 STW Initial

2.12.3 SIM362: Launch Browser use existing browser

Description: The SIM toolkit requests to launch the existing browser. A fixed URL is used. The total length of the command is less than 128 characters. So the length is coded in one byte. The command itself is forwarded to MMI.

Preamble: SIM200E



Parametrization

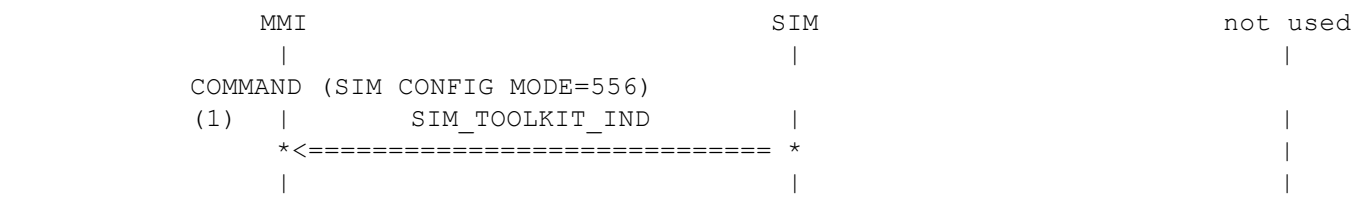
Primitive		Parameter	Value
(1)	SIM_TOOLKIT_IND		
		stk_cmd	STK_LAUNCH_BROWSER_UEB

History: 17-Apr-2002 STW Initial

2.12.4 SIM363: Launch Browser close existing browser

Description: The SIM toolkit requests to terminate the existing browser. The total length of the command is less than 128 characters. So the length is coded in one byte. The command itself is forwarded to MMI.

Preamble: SIM200E



Parametrization

Primitive	Parameter	Value
(1) SIM_TOOLKIT_IND		
	stk_cmd	STK_LAUNCH_BROWSER_CEB

History:	17-Apr-2002	STW	Initial