

WAP

Test Specification ACIWAP

Confidential

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0 Document Control

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8411.101.98.100; Condat GmbH
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- [29] Service Access Point FAD
8411.103.98.100; Condat GmbH
- [30] Service Access Point T30
8411.104.98.100; Condat GmbH
- [31] Service Access Point ACI
8411.105.98.100; Condat GmbH
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8411.201.98.100; Condat GmbH
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0.3 Abbreviations

ACI	AT Command Interpreter
AGCH	Access Grant Channel
AT	Attention sequence "AT" to indicate valid commands of the ACI
BCCH	Broadcast Control Channel
BCS	Binary Coded Signals
BS	Base Station
BSIC	Base Station Identification Code
C/R	Command/Response
C1	Path Loss Criterion
C2	Reselection Criterion
CBCH	Cell Broadcast Channel
CBQ	Cell Bar Qualify
CC	Call Control
CCCH	Common Control Channel
CCD	Condat Coder Decoder
CKSN	Ciphering Key Sequence Number
CRC	Cyclic Redundancy Check
DCCH	Dedicated Control Channel
DISC	Disconnect Frame
DL	Data Link Layer
DM	Disconnected Mode Frame
DTX	Discontinuous Transmission
EA	Extension Bit Address Field
EL	Extension Bit Length Field
EMMI	Electrical Man Machine Interface
EOL	End Of Line
F	Final Bit
F&D	Fax and Data Protocol Stack
FACCH	Fast Associated Control Channel
FHO	Forced Handover
GP	Guard Period
GSM	Global System for Mobile Communication
HDLC	High level Data Link Control
HISR	High level Interrupt Service Routine
HPLMN	Home Public Land Mobile Network
I	Information Frame
IMEI	International Mobile Equipment Identity
IMSI	International Mobile Subscriber Identity
ITU	International Telecommunication Union
IWF	Interworking Function
Kc	Authentication Key
L	Length Indicator
LAI	Location Area Information
LISR	Low level Interrupt Service Routine
LPD	Link Protocol Discriminator
M	More Data Bit
MCC	Mobile Country Code

MM	Mobility Management
MMI	Man Machine Interface
MNC	Mobile Network Code
MS	Mobile Station
MSG	Message phase in the GSM 3.45 protocol
N(R)	Receive Number
N(S)	Send Number
NCC	National Colour Code
NECI	New Establishment Causes included
OTD	Observed Time Difference
P	Poll Bit
P/F	Poll/Final Bit
PCH	Paging Channel
PCO	Point of Control and Observation
PDU	Protocol Description Unit
PL	Physical Layer
PLMN	Public Land Mobile Network
RACH	Random Access Channel
REJ	Reject Frame
RNR	Receive Not Ready Frame
RR	Radio Resource Management
RR	Receive Ready Frame
RTD	Real Time Difference
RTOS	Real Time Operating System
SABM	Set Asynchronous Balanced Mode
SACCH	Slow Associated Control Channel
SAP	Service Access Point
SAPI	Service Access Point Identifier
SDCCH	Slow Dedicated Control Channel
SIM	Subscriber Identity Module
SMS	Short Message Service
SMSCB	Short Message Service Cell Broadcast
SS	Supplementary Services
T.4	CCITT Standardisation for Document coding of Group 3 Facsimile Apparatus
TAP	Test Application Program
TCH	Traffic Channel
TCH/F	Traffic Channel Full Rate
TCH/H	Traffic Channel Half Rate
TDMA	Time Division Multiple Access
TE	Terminal Equipment - e. g. a PC
TMSI	Temporary Mobile Subscriber Identity
UA	Unnumbered Acknowledgement Frame
UI	Unnumbered Information Frame
V(A)	Acknowledgement State Variable
V(R)	Receive State Variable
V(S)	Send State Variable
VPLMN	Visiting Public Land Mobile Network

0.4 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 Overview

The Protocol Stacks are used to define the functionality of the GSM protocols for interfaces. The GSM specifications are normative when used to describe the functionality of interfaces, but the stacks and the subdivision of protocol layers does not imply or restrict any implementation.

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

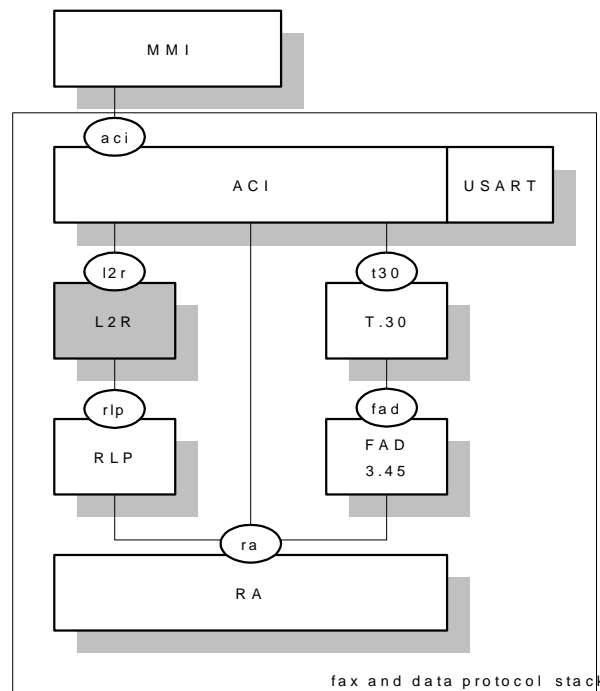


Figure 1-1: Architecture of the fax and data protocol stack

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

The entities of the fax and data protocol stack are:

1.1 RA - Rate Adaptation

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

1.2 RLP - Radio Link Protocol

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

1.3 L2R - Layer 2 Relay Functionality

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

1.4 FAD 03.45 - Fax Adaptation Protocol

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

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

1.5 T.30 - Fax Protocol Entity

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

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

1.6 ACI - AT Command Interpreter

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

1.7 USART - Universal Synchronous Asynchronous Receiver Transmitter Driver

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

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

2 Parameters

/* Parameters are taken from ACI.DOC */

/* array declarations */

```
DECLARATION ( A_PIN_1234 )
DECLARATION ( A_CLG_NUM )
DECLARATION ( A_CLD_NUM )
DECLARATION ( A_CLD_NUM_WAP )
DECLARATION ( A_CLG_EMERG )
DECLARATION ( A_CLD_EMERG )
DECLARATION ( A_CLD_NUM_INT )
DECLARATION ( A_FAC_AOC )
DECLARATION ( A_FAC_BUILD_MPTY )
DECLARATION ( A_FAC_SPLIT_MPTY )
DECLARATION ( A_FAC_HOLD_MPTY )
DECLARATION ( A_FAC_HOLD_MPTY_2 )
DECLARATION ( A_FAC_RETRIEVE_MPTY )
DECLARATION ( A_FAC_ECT )
DECLARATION ( A_FAC_CCBS )
DECLARATION ( A_FAC_NTFY_CCBS )
DECLARATION ( A_FAC_EMPTY )
DECLARATION ( A_FAC_BUILD_MPTY_RES )
DECLARATION ( A_FAC_SPLIT_MPTY_RES )
DECLARATION ( A_FAC_HOLD_MPTY_RES )
DECLARATION ( A_FAC_RETRIEVE_MPTY_RES )
DECLARATION ( A_FAC_ECT_RES )
DECLARATION ( A_FAC_CCBS_RES )
DECLARATION ( A_FAC_CCBS_ERR )
DECLARATION ( A_EF_PLMNSEL )
DECLARATION ( A_EF_PLMNSEL_DEL )
DECLARATION ( A_EF_PLMNSEL_DEL_CMP )
DECLARATION ( A_EF_PLMNSEL_OVR )
DECLARATION ( A_EF_PLMNSEL_NEW )
DECLARATION ( A_EF_PLMNSEL_INS_CMP )
DECLARATION ( A_EF_PLMNSEL_INS_1_CMP )
DECLARATION ( A_EF_PLMNSEL_NEW_CMP )
DECLARATION ( A_EF_PLMNSEL_CHG_CMP )
DECLARATION ( A_ECC_FIELD )
DECLARATION ( A_AD_FIELD_CI_DISABLED )
DECLARATION ( A_ACM_FIELD )
DECLARATION ( A_ADN_REC )
DECLARATION ( A_SMS_REC )
DECLARATION ( A_RESP_DATA )
```

/* structure declarations */

```
DECLARATION ( F_PLMN_NOT_PRESENT )
DECLARATION ( S_PLMN_123_45 )
DECLARATION ( S_PLMN_262_01 )
DECLARATION ( S_PLMN_262_02 )
DECLARATION ( S_PLMN_555_55 )
DECLARATION ( S_CLG_PARTY )
DECLARATION ( S_CLG_EMERG )
DECLARATION ( S_CLD_PARTY )
```

DECLARATION (S_CLD_EMERG)
DECLARATION (S_CLD_PARTY_INT)
DECLARATION (S_CLG_PARTY_SUB)
DECLARATION (S_CLG_EMERG_SUB)
DECLARATION (S_CLD_PARTY_SUB)
DECLARATION (S_CLD_EMERG_SUB)
DECLARATION (S_BS_NOT_PRESENT)
DECLARATION (S_BS_VOICE)
DECLARATION (S_BS_EMERG)
DECLARATION (S_BS_FAX)
DECLARATION (S_BS_FAX_14400)
DECLARATION (S_BS_DAT_9600_ASY_TRA)
DECLARATION (S_BS_DAT_9600_ASY_NTRA)
DECLARATION (S_BS_DAT_9600_ASY_NON_TRA)
DECLARATION (S_BS_DEF)
DECLARATION (S_BS_DAT_14400_ASY_BTP)
DECLARATION (S_BS_DAT_14400_ASY_TRA_V34)
DECLARATION (S_HDLC_DCS)
DECLARATION (S_HDLC_DIS)
DECLARATION (S_DCS)
DECLARATION (S_DIS)
DECLARATION (S_DTC)
DECLARATION (S_FAC_AOC)
DECLARATION (S_CHN_SPEECH)
DECLARATION (S_CHN_FULL_9600)
DECLARATION (F_ICC)
DECLARATION (S_PROTOCO)
DECLARATION (S_S_PROTOCO)
DECLARATION (S_PROTOCO_ARRAY)
DECLARATION (S_IP_NAME)
DECLARATION (S_UDP_NAME)
DECLARATION (S_WAP_NAME)
DECLARATION (S_SIM_NAME)
DECLARATION (S_PPP_NAME)
DECLARATION (S_L2R_NAME)
DECLARATION (IP_CHANNEL)
DECLARATION (L2R_CHANNEL)
DECLARATION (F_MCC_NONE)
DECLARATION (F_MCC_123)
DECLARATION (F_MCC_262)
DECLARATION (F_MCC_555)
DECLARATION (F_PLMN_LST)
DECLARATION (F_FRB_PLMN_LST)
DECLARATION (F_RXL_PLMN_LST)
DECLARATION (F_MNC_NONE)
DECLARATION (F_MNC_45)
DECLARATION (F_MNC_01)
DECLARATION (F_MNC_02)
DECLARATION (F_MNC_55)

/* Number definitions */

BYTE NUM_0 0

BYTE NUM_1 1

BYTE NUM_2 2
BYTE NUM_3 3
BYTE NUM_4 4
BYTE NUM_5 5
BYTE NUM_6 6
BYTE NUM_7 7
BYTE NUM_8 8
BYTE NUM_9 9
BYTE NUM_10 10
BYTE NUM_12 12
BYTE NUM_20 20
BYTE NUM_21 21
BYTE NUM_27 27
BYTE NUM_30 30
BYTE NUM_50 90

BYTE NUM_40 0x40
BYTE NUM_90 0x90
BYTE NUM_92 0x92
BYTE NUM_98 0x98
BYTE NUM_6F 0x6F
BYTE NUM_FF 0xFF

SHORT NUM_9600 9600
SHORT NUM_4800 4800
SHORT NUM_512 512

/* Unit definitions */

BYTE UNIT_SNDP 0
BYTE UNIT_ACI 1
BYTE UNIT_UART 2
BYTE UNIT_PPPS 3
BYTE UNIT_PPPC 4
BYTE UNIT_L2R 5
BYTE UNIT_T30 6
BYTE UNIT_IP 7
BYTE UNIT_TRA 8
BYTE UNIT_UDP 9
BYTE UNIT_WAP 10
BYTE UNIT_BLUETOOTH 11

/* DTI definitions */

#define WAP_UDP_LINK_ID	0x00000100
#define UDP_IP_LINK_ID	0x00000101
#define IP_PPP_LINK_ID	0x00000102
#define PPP_L2R_LINK_ID	0x00000103

BYTE TO_LOWER_LAYER 1
BYTE TO_HIGHER_LAYER 0

/* Key definitions */

BYTE KEY_0 48

BYTE KEY_1 49
BYTE KEY_2 50
BYTE KEY_3 51
BYTE KEY_4 52
BYTE KEY_5 53
BYTE KEY_6 54
BYTE KEY_7 55
BYTE KEY_8 56
BYTE KEY_9 57
BYTE KEY_A 65
BYTE KEY_B 66
BYTE KEY_C 67
BYTE KEY_D 68
BYTE KEY_STAR 42
BYTE KEY_HASH 35

```
/*  
Command:      %ACI  
              setACI mode  
*/  
STRING(C_MODE, "%ACI=1 " )  
BYTE LC_MODE 6  
  
/*  
Message:      OK  
              successful operation  
*/
```

```
STRING(M_OK, "OK" )  
BYTE LM_OK 2
```

```
STRING(M_OK_nv, "0" )  
BYTE LM_OK_nv 1
```

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

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

```
/*  
Command:      ACI configuration WAP  
*/  
  
STRING(C_PERCENT_WAP, "AT% WAP=1" )  
BYTE   LC_PERCENT_WAP      8
```



```
/*  
Command :      use PPP and with user = testname, password = testpass  
*/
```

```
STRING(C_PERCENT_PPP, "AT%PPP=1,\"testname\", \"testpass\" ")  
BYTE   LC_PERCENT_PPP          30
```

```
/*  
Message:      CONNECT  
              successful data call connection  
*/
```

```
STRING(M_CONNECT_9600, "CONNECT 9600")  
BYTE LM_CONNECT_9600 12  
STRING(M_CONNECT, "CONNECT")  
BYTE LM_CONNECT 7
```

```
STRING(M_CONNECT_9600_nv, "15")  
BYTE LM_CONNECT_9600_nv 2
```

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

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

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

```
/*  
Message:      ERROR  
              error result code  
*/
```

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

```
/*  
Message:      BUSY  
              busy result code  
*/
```

```
STRING(M_BUSY, "BUSY")  
BYTE LM_BUSY 4
```

```
/*  
  
Message:      +CME  
              error result code
```

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

/*
Command:      S
              set S register
*/

STRING(C_S0_3, "ATS0=3" )
BYTE LC_S0_3 6

/*
Command:      +CFUN
              set phone functionality
*/

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

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

STRING(C_PLUS_CLAC_read, "AT+CLAC=? " )
BYTE LC_PLUS_CLAC_read 9
```

```
/*
Command:      +CEER
              extended error report
*/
STRING(C_PLUS_CEER, "AT+CEER ")
BYTE LC_PLUS_CEER 7

/*
Command:      +CMEE
              extended error report mode
*/
STRING(C_PLUS_CMEE_VERB, "AT+CMEE=2 ")
BYTE LC_PLUS_CMEE_VERB 9

/*
Command:      &F
              reset to defaults
*/
STRING(C_AND_F, "AT&F0 ")
BYTE LC_AND_F 5

/*
Command:      Z
              reset to defaults
*/
STRING(C_Z, "ATZ ")
BYTE LC_Z 3

/*
Command:      +CPAS
              phone activity status
*/
STRING(C_PLUS_CPAS, "AT+CPAS ")
BYTE LC_PLUS_CPAS 7

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

/*
Message:      +CPIN
              enter PIN
*/
STRING(M_PLUS_CPIN_PIN1, "+CPIN: SIM PIN")
```

BYTE LM_PLUS_CPIN_PIN1 14

/*

Command: +CMOD
 mode selection

*/

STRING(C_PLUS_CMOD_FAX, "AT+CMOD=1 ")

BYTE LC_PLUS_CMOD_FAX 9

STRING(C_PLUS_CMOD_ALT_DAT, "AT+CMOD=2 ")

BYTE LC_PLUS_CMOD_ALT_DAT 9

/*

Command: +CCWA
 Call waiting indication

*/

STRING(C_PLUS_CCWA_ON, "AT+CCWA=1 ")

BYTE LC_PLUS_CCWA_ON 9

/*

Command: D
 Dial a number

*/

STRING(C_D_DAT, "ATDT(030)39094444")

BYTE LC_D_DAT 17

STRING(C_D_VOICE, "ATD03039094444;")

BYTE LC_D_VOICE 15

STRING(C_D_VOICE_INT_A, "ATD004903039094444;")

BYTE LC_D_VOICE_INT_A 19

STRING(C_D_VOICE_INT_B, "ATD+4903039094444;")

BYTE LC_D_VOICE_INT_B 18

STRING(C_D_EMERG, "ATD112;")

BYTE LC_D_EMERG 7

STRING(C_D_MDF, "ATD")

BYTE LC_D_MDF 3

STRING(C_D_WAP, "ATD:030123 ")

BYTE LC_D_WAP 10

/*

Command: H
 Hang up call

*/

STRING(C_H, "ATH0")

BYTE LC_H 4

/*

Command: +CHUP
 Hang up call

*/

STRING(C_PLUS_CHUP, "AT+CHUP")

BYTE LC_PLUS_CHUP 7

/*

Command: A
 accept call

*/

```
STRING(C_A, "ATA" )
BYTE LC_A 3

/*
Command:      +CBST
              Set bearer services
*/
STRING(C_PLUS_CBST_96_ASY_TRA_UDI, "AT+CBST=71,0,0" )
STRING(C_PLUS_CBST_96_ASY_NTRA_UDI, "AT+CBST=71,0,1" )
BYTE LC_PLUS_CBST_96_ASY_TRA_UDI 14
STRING(C_PLUS_CBST_14400_ASY_BTP, "AT+CBST=43,0,2" )

BYTE LC_PLUS_CBST_14400_ASY_BTP 14
STRING(C_PLUS_CBST_14400_ASY_TRA_V34, "AT+CBST=14,0,0" )

BYTE LC_PLUS_CBST_14400_ASY_TRA_V34 14

STRING(C_PLUS_ATX_9600, "AT1" )
BYTE LC_PLUS_ATX_9600 3

STRING(C_PLUS_ATX, "ATX1" )
BYTE LC_PLUS_ATX 4

STRING(C_PLUS_ATV, "ATV0" )
BYTE LC_PLUS_ATV 4

STRING(C_PLUS_ATV_resp, "0" )
BYTE LC_PLUS_ATV_resp 1
/*
Command:      +COPS
              operator selection
*/
STRING(C_PLUS_COPS_DREG, "AT+COPS=2 " )
BYTE LC_PLUS_COPS_DREG 9
STRING(C_PLUS_COPS_REG, "AT+COPS=0,0 " )
BYTE LC_PLUS_COPS_REG 11

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

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

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

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

BYTE LC_PLUS_COPS_MAN_NUM 19

/*
Command:      +CLCC
              list current calls
```

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

/*
Command:      +CLCK
              facility lock

*/

STRING(C_PLUS_CLCK_FD_ENA, "AT+CLCK=\"FD\",1,\"1234\"")
BYTE LC_PLUS_CLCK_FD_ENA 22
STRING(C_PLUS_CLCK_FD_DIS, "AT+CLCK=\"FD\",0,\"1234\"")
BYTE LC_PLUS_CLCK_FD_DIS 22
STRING(C_PLUS_CLCK_FD_QUERY, "AT+CLCK=\"FD\",2")
BYTE LC_PLUS_CLCK_FD_QUERY 14

/*
Message:      +CLCK
              facility lock

*/

STRING(M_PLUS_CLCK_FD_ENA, "+CLCK: 1")
BYTE LM_PLUS_CLCK_FD_ENA 8
STRING(M_PLUS_CLCK_FD_DIS, "+CLCK: 0")
BYTE LM_PLUS_CLCK_FD_DIS 8

/*
Command:      %NRG
              network registration

*/

STRING(C_PLUS_NRG_FULL_AUTO, "AT%NRG=0,0 ")
BYTE LC_PLUS_NRG_FULL_AUTO 10
STRING(C_PLUS_NRG_FULL_MAN, "AT%NRG=1,0,1,\"D1\"")
BYTE LC_PLUS_NRG_FULL_MAN 17
STRING(C_PLUS_NRG_LIM, "AT%NRG=,1 ")
BYTE LC_PLUS_NRG_LIM 9
STRING(C_PLUS_NRG_NO, "AT%NRG=,2 ")
BYTE LC_PLUS_NRG_NO 9
STRING(C_PLUS_NRG_SET_AUTO, "AT%NRG=0,3 ")
BYTE LC_PLUS_NRG_SET_AUTO 10
STRING(C_PLUS_NRG_SET_MAN, "AT%NRG=1,3 ")
BYTE LC_PLUS_NRG_SET_MAN 10
STRING(C_PLUS_NRG_QUERY, "AT%NRG? ")
BYTE LC_PLUS_NRG_QUERY 7

/*
Message:      %NRG
              network registration

*/

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

```
STRING(M_PLUS_NRG_MAN_FULL_SHORT_D1, "%NRG: 0,0,1,0,\"D1\"")
```

```
BYTE LM_PLUS_NRG_MAN_FULL_SHORT_D1 18
```

```
STRING(M_PLUS_NRG_AUTO_LIM_SHORT_NONE, "%NRG: 0,1,,1")
```

```
BYTE LM_PLUS_NRG_AUTO_LIM_SHORT_NONE 12
```

```
STRING(M_PLUS_NRG_AUTO_NO_LONG_NONE, "%NRG: 0,2,,2")
```

```
BYTE LM_PLUS_NRG_AUTO_NO_LONG_NONE 12
```

```
/*
```

```
Message:      +COPS  
             operator selection
```

```
*/
```

```
STRING(M_PLUS_COPS_LST, "+COPS: (1,\"D1-TELEKOM\", \"D1\", \"26201\"), (1,\"D-ZWEI PRIVAT\", \"D-ZWEI\", \"26202\"), (1,\"E-Plus\", \"E-Plus\", \"26203\"))
```

```
BYTE LM_PLUS_COPS_LST 103
```

```
/*
```

```
Command:      +COLP  
             Calling line presentation mode
```

```
*/
```

```
STRING(C_PLUS_COLP_ON, "AT+COLP=1 ")
```

```
BYTE LC_PLUS_COLP_ON 9
```

```
/*
```

```
Command:      +CLIR  
             Calling line restriction mode
```

```
*/
```

```
STRING(C_PLUS_CLIR_SUP, "AT+CLIR=2 ")
```

```
BYTE LC_PLUS_CLIR_SUP 9
```

```
/*
```

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

```
*/
```

```
STRING(C_PLUS_CHLD_0, "AT+CHLD=0 ")
```

```
BYTE LC_PLUS_CHLD_0 9
```

```
STRING(C_PLUS_CHLD_1, "AT+CHLD=1 ")
```

```
BYTE LC_PLUS_CHLD_1 9
```

```
STRING(C_PLUS_CHLD_2, "AT+CHLD=2 ")
```

```
BYTE LC_PLUS_CHLD_2 9
```

```
STRING(C_PLUS_CHLD_21, "AT+CHLD=21 ")
```

```
BYTE LC_PLUS_CHLD_21 10
```

```
STRING(C_PLUS_CHLD_12, "AT+CHLD=12 ")
```

```
BYTE LC_PLUS_CHLD_12 10
```

```
STRING(C_PLUS_CHLD_3, "AT+CHLD=3 ")
```

```
BYTE LC_PLUS_CHLD_3 9
```

```
STRING(C_PLUS_CHLD_4, "AT+CHLD=4 ")
```

```
BYTE LC_PLUS_CHLD_4 9
```

```
STRING(C_PLUS_CHLD_5, "AT+CHLD=5 ")
```

```
BYTE LC_PLUS_CHLD_5 9
```

```
/*
```

```
Command:      +FHS  
             query FAX hangup status
```

```
*/
STRING(C_PLUS_FHS, "AT+FHS? ")
BYTE LC_PLUS_FHS 7

/*
Command:      +FCLASS
              FAX class
*/

STRING(C_PLUS_FCLASS_0, "AT+FCLASS=0" )
BYTE LC_PLUS_FCLASS_0 11

/*
Command:      +VTS
              send DTMF
*/

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

/*
message: +COLP
              calling line presentation
*/
STRING(M_PLUS_COLP_NUM, "+COLP: \"03039094223\",129" )
BYTE LM_PLUS_COLP_NUM 24
STRING(M_PLUS_COLP_EMERG, "+COLP: \"112\",129" )
BYTE LM_PLUS_COLP_EMERG 16
STRING(M_PLUS_COLP_NUM_2, "+COLP: \"03039094444\",129" )
BYTE LM_PLUS_COLP_NUM_2 24

/*
message: +CCWA
              call waiting presentation
*/
STRING(M_PLUS_CCWA, "+CCWA: \"03039094223\",129,1" )
BYTE LM_PLUS_CCWA 26

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

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



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

```
/*
message: +CLAC
                List all AT-commands
*/
```

```
STRING(M_CLAC1, "AT+COPS" )
BYTE LM_CLAC1 7
STRING(M_CLAC2, "AT+CPOL" )
BYTE LM_CLAC2 7
STRING(M_CLAC3, "AT+COPN" )
BYTE LM_CLAC3 7
STRING(M_CLAC4, "AT+CFUN" )
BYTE LM_CLAC4 7
STRING(M_CLAC5, "AT+CPIN" )
BYTE LM_CLAC5 7
```

```
STRING(M_CLAC_error, "ERROR" )
BYTE LM_CLAC_error 5
```

```
/*
message: +CREG
                network registration
*/
```

```
STRING(M_PLUS_CREG_NO, "AT+CREG: 0" )
BYTE LM_PLUS_CREG_NO 10
```

```
/*
Command:      +CSNS
                single numbering scheme
*/
```

```
STRING(C_PLUS_CSNS_VAF_V, "AT+CSNS=5 " )
BYTE LC_PLUS_CSNS_VAF_V 9
STRING(C_PLUS_CSNS_VFD, "AT+CSNS=7 " )
BYTE LC_PLUS_CSNS_VFD 9
STRING(C_PLUS_CSNS_QUERY, "AT+CSNS? " )
BYTE LC_PLUS_CSNS_QUERY 8
```

```
/*
Message:      +CSNS
                single numbering scheme
*/
```

```
STRING(M_PLUS_CSNS_0, "+CSNS: 0" )
BYTE LM_PLUS_CSNS_0 8
STRING(M_PLUS_CSNS_5, "+CSNS: 5" )
BYTE LM_PLUS_CSNS_5 8
```

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

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

/*
Message:      +CPOL
              Preferred operator list
*/
STRING(M_PLUS_CPOL_T, "+CPOL: (1-9),(0-2)" )
BYTE LM_PLUS_CPOL_T 18
STRING(M_PLUS_CPOL_PLMN1_NUM, "+CPOL: 2,2,\"26201\"" )
BYTE LM_PLUS_CPOL_PLMN1_NUM 18
STRING(M_PLUS_CPOL_PLMN1_LNG, "+CPOL: 2,0,\"D1-TELEKOM\"" )
BYTE LM_PLUS_CPOL_PLMN1_LNG 23
STRING(M_PLUS_CPOL_PLMN1_SHRT, "+CPOL: 2,1,\"D1\"" )
BYTE LM_PLUS_CPOL_PLMN1_SHRT 15
STRING(M_PLUS_CPOL_PLMN1_CMP, "+CPOL: 1,0,\"D1-TELEKOM\"" )
BYTE LM_PLUS_CPOL_PLMN1_CMP 23
STRING(M_PLUS_CPOL_PLMN1_CHG, "+CPOL: 5,0,\"D1-TELEKOM\"" )
BYTE LM_PLUS_CPOL_PLMN1_CHG 23
STRING(M_PLUS_CPOL_PLMN1_INS, "+CPOL: 2,0,\"D1-TELEKOM\"" )
BYTE LM_PLUS_CPOL_PLMN1_INS 23
```

```
STRING(M_PLUS_CPOL_PLMN2_NUM, "+CPOL: 3,2,\"26202\"")
BYTE LM_PLUS_CPOL_PLMN2_NUM 18
STRING(M_PLUS_CPOL_PLMN2_LNG, "+CPOL: 3,0,\"D-ZWEI PRIVAT\"")
BYTE LM_PLUS_CPOL_PLMN2_LNG 26
STRING(M_PLUS_CPOL_PLMN2_SHRT, "+CPOL: 3,1,\"D-ZWEI\"")
BYTE LM_PLUS_CPOL_PLMN2_SHRT 19
STRING(M_PLUS_CPOL_PLMN2_CMP, "+CPOL: 2,0,\"D-ZWEI PRIVAT\"")
BYTE LM_PLUS_CPOL_PLMN2_CMP 26
STRING(M_PLUS_CPOL_PLMN2_DLT, "+CPOL: 1,0,\"D-ZWEI PRIVAT\"")
BYTE LM_PLUS_CPOL_PLMN2_DLT 26
STRING(M_PLUS_CPOL_PLMN2_INS, "+CPOL: 3,0,\"D-ZWEI PRIVAT\"")
BYTE LM_PLUS_CPOL_PLMN2_INS 26
STRING(M_PLUS_CPOL_PLMN3_NUM, "+CPOL: 5,2,\"26203\"")
BYTE LM_PLUS_CPOL_PLMN3_NUM 18
STRING(M_PLUS_CPOL_PLMN3_LNG, "+CPOL: 5,0,\"E-Plus\"")
BYTE LM_PLUS_CPOL_PLMN3_LNG 19
STRING(M_PLUS_CPOL_PLMN3_SHRT, "+CPOL: 5,1,\"E-Plus\"")
BYTE LM_PLUS_CPOL_PLMN3_SHRT 19
STRING(M_PLUS_CPOL_PLMN3_CMP, "+CPOL: 3,0,\"E-Plus\"")
BYTE LM_PLUS_CPOL_PLMN3_CMP 19
STRING(M_PLUS_CPOL_PLMN3_DLT, "+CPOL: 2,0,\"E-Plus\"")
BYTE LM_PLUS_CPOL_PLMN3_DLT 19
STRING(M_PLUS_CPOL_PLMN3_INS, "+CPOL: 4,0,\"E-Plus\"")
BYTE LM_PLUS_CPOL_PLMN3_INS 19
STRING(M_PLUS_CPOL_PLMN4_NUM, "+CPOL: 6,2,\"26207\"")
BYTE LM_PLUS_CPOL_PLMN4_NUM 18
STRING(M_PLUS_CPOL_PLMN4_LNG, "+CPOL: 6,0,\"D Interkom\"")
BYTE LM_PLUS_CPOL_PLMN4_LNG 23
STRING(M_PLUS_CPOL_PLMN4_SHRT, "+CPOL: 6,1,\"Ik\"")
BYTE LM_PLUS_CPOL_PLMN4_SHRT 15
STRING(M_PLUS_CPOL_PLMN4_CMP, "+CPOL: 4,0,\"D Interkom\"")
BYTE LM_PLUS_CPOL_PLMN4_CMP 23
STRING(M_PLUS_CPOL_PLMN4_DLT, "+CPOL: 3,0,\"D Interkom\"")
BYTE LM_PLUS_CPOL_PLMN4_DLT 23
STRING(M_PLUS_CPOL_PLMN4_INS, "+CPOL: 5,0,\"D Interkom\"")
BYTE LM_PLUS_CPOL_PLMN4_INS 23
STRING(M_PLUS_CPOL_PLMN5_NUM, "+CPOL: 8,2,\"23433\"")
BYTE LM_PLUS_CPOL_PLMN5_NUM 18
STRING(M_PLUS_CPOL_PLMN5_LNG, "+CPOL: 8,0,\"ORANGE\"")
BYTE LM_PLUS_CPOL_PLMN5_LNG 19
STRING(M_PLUS_CPOL_PLMN5_SHRT, "+CPOL: 8,1,\"ORANGE\"")
BYTE LM_PLUS_CPOL_PLMN5_SHRT 19
STRING(M_PLUS_CPOL_PLMN5_CMP, "+CPOL: 5,0,\"ORANGE\"")
BYTE LM_PLUS_CPOL_PLMN5_CMP 19
STRING(M_PLUS_CPOL_PLMN5_DLT, "+CPOL: 4,0,\"ORANGE\"")
BYTE LM_PLUS_CPOL_PLMN5_DLT 19
STRING(M_PLUS_CPOL_PLMN5_INS, "+CPOL: 6,0,\"ORANGE\"")
BYTE LM_PLUS_CPOL_PLMN5_INS 19
STRING(M_PLUS_CPOL_PLMN5_CHG, "+CPOL: 1,0,\"ORANGE\"")
BYTE LM_PLUS_CPOL_PLMN5_CHG 19
STRING(M_PLUS_CPOL_PLMN_OVR_LNG, "+CPOL: 5,0,\"CITRON GSM BG\"")
BYTE LM_PLUS_CPOL_PLMN_OVR_LNG 26
STRING(M_PLUS_CPOL_PLMN_OVR_NUM, "+CPOL: 5,2,\"28401\"")
BYTE LM_PLUS_CPOL_PLMN_OVR_NUM 18
STRING(M_PLUS_CPOL_PLMN_NEW_LNG, "+CPOL: 1,0,\"M-TEL GSM BG\"")
BYTE LM_PLUS_CPOL_PLMN_NEW_LNG 25
```

```
STRING(M_PLUS_CPOL_PLMN_NEW_NUM, "+CPOL: 1,2,\"28401\"")
BYTE LM_PLUS_CPOL_PLMN_NEW_NUM 18
STRING(M_PLUS_CPOL_PLMN_NEW_CMP, "+CPOL: 6,0,\"M-TEL GSM BG\"")
BYTE LM_PLUS_CPOL_PLMN_NEW_CMP 25
STRING(M_PLUS_CPOL_PLMN_INS_LNG, "+CPOL: 3,0,\"M-TEL GSM BG\"")
BYTE LM_PLUS_CPOL_PLMN_INS_LNG 25
STRING(M_PLUS_CPOL_PLMN_INS_1_LNG, "+CPOL: 1,0,\"M-TEL GSM BG\"")
BYTE LM_PLUS_CPOL_PLMN_INS_1_LNG 25
```

/*

```
Message:      +CRSM
              restricted SIM access
```

*/

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

/*

```
message: RING
          alerting
```

*/

```
STRING(M_RING, "RING" )
BYTE LM_RING 4
```

/*

```
message: +FHS
          FAX hangup status code
```

*/

```
STRING(M_PLUS_FHS_11, "+FHS:11" )
BYTE LM_PLUS_FHS_11 7
```

```
/*
Command:          % CCBS
                  Call completion to busy subscriber
```

```
*/
STRING(C_PERCENT_CCBS_ENA, "AT%CCBS=1" )
BYTE LC_PERCENT_CCBS_ENA 9
```

```
/*
message: % CCBS
          CCBS indications
```

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

```
/*Command:      misc
```

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

```
/*Test Command
```

```
*/
STRING(C_PERCENT_TEST_0, "AT% test=0" )
BYTE LC_PERCENT_TEST_0 9
STRING(C_PERCENT_TEST_2, "AT% test=2" )
BYTE LC_PERCENT_TEST_2 9
STRING(C_PERCENT_TEST_5, "AT% test=5" )
BYTE LC_PERCENT_TEST_5 9
STRING(C_PERCENT_TEST_6, "AT% test=6" )
BYTE LC_PERCENT_TEST_6 9
STRING(C_PERCENT_TEST_30, "AT% test=30,860E,\"0102030405060708090a0b0c0d0e0f\"")
BYTE LC_PERCENT_TEST_30 48
```

```
/*Test Command/Message: SIM
```

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

STRING(M_ACT_CRD_BLK, "test: sim activated ec=0011" )
STRING(M_ACT_INV_CRD, "test: sim activated ec=0013" )
```

```

STRING(M_ACT_FTL_ERR, "test sim activated ec=FFFF" )
STRING(M_INS, "test sim inserted" )
STRING(M_SYNC, "test sim synchronized" )
STRING(M_VRFD, "test pin verified" )

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

STRING(C_PERCENT_TEST_FD_TST, "AT%test=10" )

BYTE LC_PERCENT_TEST_FD_TST 10
STRING(C_PERCENT_TEST_FAX_DATA, "AT%test=12,1,\\"12AB34CD56EF78\\"")

BYTE LC_PERCENT_TEST_FAX_DATA 31
STRING(C_PERCENT_TEST_FAX_DLE, "AT%test=13,113" )

BYTE LC_PERCENT_TEST_FAX_DLE 14
STRING(C_PERCENT_TEST_FAX_SIM, "AT%test=20" )

BYTE LC_PERCENT_TEST_FAX_SIM 10
/* chipcard identification field */

BEGINARRAY (F_ICC, 10) 0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x07, 0x08, 0x09, 0x00 ENDARRAY

/* Protocol */
BEGINARRAY(S_PROTOCO, 6) 0x55,0x44, 0x50, 0x00, 0x00, 0x00 ENDARRAY

/* Entity name strings */
BEGINARRAY(S_IP_NAME, 6) 0x49,0x50, 0x00, 0x00, 0x00, 0x00 ENDARRAY
BEGINARRAY(S_UDP_NAME, 6) 0x55,0x44, 0x50, 0x00, 0x00, 0x00 ENDARRAY
BEGINARRAY(S_WAP_NAME, 6) 0x57,0x41, 0x50, 0x00, 0x00, 0x00 ENDARRAY
BEGINARRAY(S_SIM_NAME, 6) 0x53,0x49, 0x4D, 0x00, 0x00, 0x00 ENDARRAY
BEGINARRAY(S_PPP_NAME, 6) 0x50,0x50, 0x50, 0x00, 0x00, 0x00 ENDARRAY
BEGINARRAY(S_L2R_NAME, 6) 0x4C,0x32, 0x52, 0x00, 0x00, 0x00 ENDARRAY

BEGIN_PSTRUCT("protocol_channel", IP_CHANNEL)
    SET_COMP("protocol_entity", S_IP_NAME)
ENDSTRUCT

BEGIN_PSTRUCT("peer_channel", L2R_CHANNEL)
    SET_COMP("peer_entity", S_L2R_NAME)
ENDSTRUCT

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

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

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

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

```



```
BEGINARRAY (A_FAC_EMPTY,4) 0x00, 0x00, 0x00, 0x00 ENDARRAY
```

```
/* result build MPTY FIE */
```

```
BEGINARRAY (A_FAC_BUILD_MPTY_RES,9) 0x28, 0x00, 0x00, 0x00, 0xA2, 0x03, 0x02, 0x01, 0x00 ENDARRAY
```

```
/* result split MPTY FIE */
```

```
BEGINARRAY (A_FAC_SPLIT_MPTY_RES,9) 0x28, 0x00, 0x00, 0x00, 0xA2, 0x03, 0x02, 0x01, 0x00 ENDARRAY
```

```
/* result hold MPTY FIE */
```

```
BEGINARRAY (A_FAC_HOLD_MPTY_RES,9) 0x28, 0x00, 0x00, 0x00, 0xA2, 0x03, 0x02, 0x01, 0x00 ENDARRAY
```

```
/* result retrieve MPTY FIE */
```

```
BEGINARRAY (A_FAC_RETRIEVE_MPTY_RES,9) 0x28, 0x00, 0x00, 0x00, 0xA2, 0x03, 0x02, 0x01, 0x00 ENDARRAY
```

```
/* result ECT FIE */
```

```
BEGINARRAY (A_FAC_ECT_RES,9) 0x28, 0x00, 0x00, 0x00, 0xA2, 0x03, 0x02, 0x01, 0x00 ENDARRAY
```

```
/* result CCBS FIE */
```

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

```
/* error CCBS FIE */
```

```
BEGINARRAY (A_FAC_CCBS_ERR,12) 0x40, 0x00, 0x00, 0x00, 0xA3, 0x06, 0x02, 0x01, 0x00, 0x02, 0x01, 0x15 ENDARRAY
```

```
/* advice of charge facility */
```

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

```
BYTE LA_FAC_AOC 344
```

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

```
/* plmn declaration */
```

```
BEGIN_PSTRUCT ("plmn", F_PLMN_NOT_PRESENT)
```

```
    SET_COMP ("v_plmn",          NUM_0)
    SET_COMP ("mcc",             F_MCC_NONE)
    SET_COMP ("mnc",             F_MNC_NONE)
```

```
ENDSTRUCT
```

```
BEGIN_PSTRUCT ("plmn", S_PLMN_123_45)
```

```
    SET_COMP ("v_plmn",          NUM_1)
    SET_COMP ("mcc",             F_MCC_123)
    SET_COMP ("mnc",             F_MNC_45)
```

```
ENDSTRUCT
```

```
BEGIN_PSTRUCT ("plmn", S_PLMN_262_01)
```

```
    SET_COMP ("v_plmn",          NUM_1)
    SET_COMP ("mcc",             F_MCC_262)
    SET_COMP ("mnc",             F_MNC_01)
```

```
ENDSTRUCT
```

```
BEGIN_PSTRUCT ("plmn", S_PLMN_262_02)
```

```
    SET_COMP ("v_plmn",          NUM_1)
    SET_COMP ("mcc",             F_MCC_262)
    SET_COMP ("mnc",             F_MNC_02)
```

```
ENDSTRUCT
```

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

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

/* Structure bearer capability */
BEGIN_PSTRUCT ("bcpara", S_BS_DAT_9600_ASY_NON_TRA)
    SET_COMP ("rate",            UR_9_6_KBIT)
    SET_COMP ("bearer_serv",     BEARER_SERV_ASYNC)
    SET_COMP ("conn_elem",       CONN_ELEM_NON_TRANS)
    SET_COMP ("stop_bits",       STOP_1_BIT)
    SET_COMP ("data_bits",       DATA_8_BIT)
    SET_COMP ("parity",          PARITY_NONE)
    SET_COMP ("flow_control",     NO_FLOW_CONTROL)
    SET_COMP ("modem_type",      MT_V32)
ENDSTRUCT

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

/* bearer service emergency */
BEGIN_PSTRUCT ("bcpara", S_BS_EMERG)
    SET_COMP ("rate",            UR_NOT_PRESENT)
    SET_COMP ("bearer_serv",     BEARER_SERV_SPEECH)
    SET_COMP ("conn_elem",       CONN_ELEM_NOT_PRESENT)
    SET_COMP ("stop_bits",       STOP_1_BIT)
    SET_COMP ("data_bits",       DATA_8_BIT)
    SET_COMP ("parity",          PARITY_NONE)
    SET_COMP ("flow_control",     NO_FLOW_CONTROL)
    SET_COMP ("modem_type",      MT_NONE)
ENDSTRUCT
```

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

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

```
/* bearer service transparent data 9600 */
BEGIN_PSTRUCT ("bcpara", S_BS_DAT_9600_ASY_TRA)
    SET_COMP ("rate", UR_9_6_KBIT)
    SET_COMP ("bearer_serv", BEARER_SERV_ASYNC)
    SET_COMP ("conn_elem", CONN_ELEM_TRANS)
    SET_COMP ("stop_bits", STOP_1_BIT)
    SET_COMP ("data_bits", DATA_8_BIT)
    SET_COMP ("parity", PARITY_NONE)
    SET_COMP ("flow_control", NO_FLOW_CONTROL)
    SET_COMP ("modem_type", MT_NONE)
ENDSTRUCT
```

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

```
/* bearer service default */
BEGIN_PSTRUCT ("bcpara", S_BS_DEF)
    SET_COMP ("rate", UR_9_6_KBIT)
    SET_COMP ("bearer_serv", BEARER_SERV_FAX)
    SET_COMP ("conn_elem", CONN_ELEM_TRANS)
    SET_COMP ("stop_bits", STOP_1_BIT)
    SET_COMP ("data_bits", DATA_8_BIT)
```

```

        SET_COMP ("parity",                PARITY_NONE)
        SET_COMP ("flow_control",          NO_FLOW_CONTROL)
        SET_COMP ("modem_type",            MT_NONE)
ENDSTRUCT

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

/* bearer service transparent data 14400 V32 */
BEGIN_PSTRUCT ("bcpara", S_BS_DAT_14400_ASY_TRA_V34)
    SET_COMP ("rate",                      UR_14_4_KBIT)
    SET_COMP ("bearer_serv",              BEARER_SERV_ASYNC)
    SET_COMP ("conn_elem",                CONN_ELEM_TRANS)
    SET_COMP ("stop_bits",                STOP_1_BIT)
    SET_COMP ("data_bits",                DATA_8_BIT)
    SET_COMP ("parity",                  PARITY_NONE)
    SET_COMP ("flow_control",            NO_FLOW_CONTROL)
    SET_COMP ("modem_type",              MT_V34)
ENDSTRUCT

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

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

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

```

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

/* called party address national*/
BEGIN_PSTRUCT ("called_party", S_CLD_PARTY)
    SET_COMP ("ton", TON_UNKNOWN)
    SET_COMP ("npi", NPI_ISDN_TEL_NUMB_PLAN)
    SET_COMP ("c_called_num", LA_CLD_NUM_WAP)
    SET_COMP ("called_num", A_CLD_NUM_WAP)
ENDSTRUCT

/* called party emergency address*/
BEGIN_PSTRUCT ("called_party", S_CLD_EMERG)
    SET_COMP ("ton", TON_UNKNOWN)
    SET_COMP ("npi", NPI_ISDN_TEL_NUMB_PLAN)
    SET_COMP ("c_called_num", LA_CLD_EMERG)
    SET_COMP ("called_num", A_CLD_EMERG)
ENDSTRUCT

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

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

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

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

```

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

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

/* DCS frame */
BEGIN_PSTRUCT ("dcs", S_DCS)
    SKIP_COMP ("v8")
    SKIP_COMP ("n_byte")
    SKIP_COMP ("ready_tx_fax")
    SKIP_COMP ("rec_fax_op")
    SKIP_COMP ("data_sig_rate")
    SKIP_COMP ("R8_lines_pels")
    SKIP_COMP ("two_dim_coding")
    SKIP_COMP ("rec_width")
    SKIP_COMP ("max_rec_len")
    SKIP_COMP ("min_scan_time")
    SKIP_COMP ("uncomp_mode")
    SKIP_COMP ("err_corr_mode")
    SKIP_COMP ("frame_size")
    SKIP_COMP ("t6_coding")
    SKIP_COMP ("R8_lines")
    SKIP_COMP ("r_300_pels")
    SKIP_COMP ("R16_lines_pels")
    SKIP_COMP ("resolution_type")
    SKIP_COMP ("i_res_pref")
    SKIP_COMP ("m_res_pref")
    SKIP_COMP ("min_scan_time_hr")
    SKIP_COMP ("sel_polling")
    SKIP_COMP ("subaddr")
    SKIP_COMP ("password")
    SKIP_COMP ("ready_tx_doc")
    SKIP_COMP ("bft")
    SKIP_COMP ("dtm")
    SKIP_COMP ("edi")
    SKIP_COMP ("btm")
    SKIP_COMP ("ready_tx_mixed")
    SKIP_COMP ("char_mode")
    SKIP_COMP ("mixed_mode")
    SKIP_COMP ("proc_mode_26")
    SKIP_COMP ("dig_network_cap")
    SKIP_COMP ("duplex")
    SKIP_COMP ("jpeg")
    SKIP_COMP ("full_colour")
    SKIP_COMP ("huffman_tables")
    SKIP_COMP ("r_12_bits_pel_comp")
    SKIP_COMP ("no_subsamp")
    SKIP_COMP ("cust_illum")
    SKIP_COMP ("cust_gamut")

```

```

        SKIP_COMP ("na_letter")
        SKIP_COMP ("na_legal")
        SKIP_COMP ("sing_prog_seq_coding_basic")
        SKIP_COMP ("sing_prog_seq_coding_L0")

```

```

ENDSTRUCT

```

```

/* DIS frame */

```

```

BEGIN_PSTRUCT ("dis", S_DIS)
    SKIP_COMP ("v8")
    SKIP_COMP ("n_byte")
    SKIP_COMP ("ready_tx_fax")
    SKIP_COMP ("rec_fax_op")
    SKIP_COMP ("data_sig_rate")
    SKIP_COMP ("R8_lines_pels")
    SKIP_COMP ("two_dim_coding")
    SKIP_COMP ("rec_width")
    SKIP_COMP ("max_rec_len")
    SKIP_COMP ("min_scan_time")
    SKIP_COMP ("uncomp_mode")
    SKIP_COMP ("err_corr_mode")
    SKIP_COMP ("frame_size")
    SKIP_COMP ("t6_coding")
    SKIP_COMP ("R8_lines")
    SKIP_COMP ("r_300_pels")
    SKIP_COMP ("R16_lines_pels")
    SKIP_COMP ("resolution_type")
    SKIP_COMP ("i_res_pref")
    SKIP_COMP ("m_res_pref")
    SKIP_COMP ("min_scan_time_hr")
    SKIP_COMP ("sel_polling")
    SKIP_COMP ("subaddr")
    SKIP_COMP ("password")
    SKIP_COMP ("ready_tx_doc")
    SKIP_COMP ("bft")
    SKIP_COMP ("dtm")
    SKIP_COMP ("edi")
    SKIP_COMP ("btm")
    SKIP_COMP ("ready_tx_mixed")
    SKIP_COMP ("char_mode")
    SKIP_COMP ("mixed_mode")
    SKIP_COMP ("proc_mode_26")
    SKIP_COMP ("dig_network_cap")
    SKIP_COMP ("duplex")
    SKIP_COMP ("jpeg")
    SKIP_COMP ("full_colour")
    SKIP_COMP ("huffman_tables")
    SKIP_COMP ("r_12_bits_pel_comp")
    SKIP_COMP ("no_subsamp")
    SKIP_COMP ("cust_illum")
    SKIP_COMP ("cust_gamut")
    SKIP_COMP ("na_letter")
    SKIP_COMP ("na_legal")
    SKIP_COMP ("sing_prog_seq_coding_basic")
    SKIP_COMP ("sing_prog_seq_coding_L0")

```

```

ENDSTRUCT

```

```
/* DTC frame */
```

```
BEGIN_PSTRUCT ("dtc", S_DTC)
    SKIP_COMP ("v8")
    SKIP_COMP ("n_byte")
    SKIP_COMP ("ready_tx_fax")
    SKIP_COMP ("rec_fax_op")
    SKIP_COMP ("data_sig_rate")
    SKIP_COMP ("R8_lines_pels")
    SKIP_COMP ("two_dim_coding")
    SKIP_COMP ("rec_width")
    SKIP_COMP ("max_rec_len")
    SKIP_COMP ("min_scan_time")
    SKIP_COMP ("uncomp_mode")
    SKIP_COMP ("err_corr_mode")
    SKIP_COMP ("frame_size")
    SKIP_COMP ("t6_coding")
    SKIP_COMP ("R8_lines")
    SKIP_COMP ("r_300_pels")
    SKIP_COMP ("R16_lines_pels")
    SKIP_COMP ("resolution_type")
    SKIP_COMP ("i_res_pref")
    SKIP_COMP ("m_res_pref")
    SKIP_COMP ("min_scan_time_hr")
    SKIP_COMP ("sel_polling")
    SKIP_COMP ("subaddr")
    SKIP_COMP ("password")
    SKIP_COMP ("ready_tx_doc")
    SKIP_COMP ("bft")
    SKIP_COMP ("dtm")
    SKIP_COMP ("ed")
    SKIP_COMP ("btm")
    SKIP_COMP ("ready_tx_mixed")
    SKIP_COMP ("char_mode")
    SKIP_COMP ("mixed_mode")
    SKIP_COMP ("proc_mode_26")
    SKIP_COMP ("dig_network_cap")
    SKIP_COMP ("duplex")
    SKIP_COMP ("jpeg")
    SKIP_COMP ("full_colour")
    SKIP_COMP ("huffman_tables")
    SKIP_COMP ("r_12_bits_pel_comp")
    SKIP_COMP ("no_subsamp")
    SKIP_COMP ("cust_illum")
    SKIP_COMP ("cust_gamut")
    SKIP_COMP ("na_letter")
    SKIP_COMP ("na_legal")
    SKIP_COMP ("sing_prog_seq_coding_basic")
    SKIP_COMP ("sing_prog_seq_coding_L0")
```

```
ENDSTRUCT
```

```
/* HDLC frame */
```

```
BEGIN_PSTRUCT ("hdlc_info", S_HDLC_DCS)
    SET_COMP ("crp", NUM_0)
    SET_COMP ("c_pwd", NUM_0)
    SKIP_COMP ("pwd")
    SET_COMP ("c_sub", NUM_0)
```



```

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

```

3 TEST CASES

3.1 Routing (internal)(ACIWAP001)

3.1.1 ACIWAP001: Setup the Routing for the ACI test

Description:

Routings for the ACI tests are set

Preamble:

None

ACI	IP	PPP
COMMAND (TAP RESET)		
COMMAND (CC RESET)		
COMMAND (MM RESET)		
COMMAND (SIM RESET)		
COMMAND (SS RESET)		
COMMAND (MMI RESET)		
COMMAND (SMS RESET)		
COMMAND (PL RESET)		
COMMAND (UART REDIRECT MMI NULL)		
COMMAND (UART RESET)		
COMMAND (PPP RESET)		
COMMAND (WAP RESET)		
COMMAND (TAP REDIRECT CLEAR)		
COMMAND (CC REDIRECT CLEAR)		
COMMAND (MM REDIRECT CLEAR)		
COMMAND (SIM REDIRECT CLEAR)		
COMMAND (SS REDIRECT CLEAR)		
COMMAND (MMI REDIRECT CLEAR)		
COMMAND (SMS REDIRECT CLEAR)		
COMMAND (UART REDIRECT CLEAR)		
COMMAND (PL REDIRECT CLEAR)		
COMMAND (UART REDIRECT CLEAR)		
COMMAND (PPP REDIRECT CLEAR)		
COMMAND (WAPP REDIRECT CLEAR)		
COMMAND (MMI REDIRECT CC TAP)		
COMMAND (MMI REDIRECT MM TAP)		
COMMAND (MMI REDIRECT SIM TAP)		
COMMAND (MMI REDIRECT SS TAP)		
COMMAND (MMI REDIRECT MMI TAP)		
COMMAND (MMI REDIRECT SMS TAP)		
COMMAND (MMI REDIRECT T30 TAP)		
COMMAND (MMI REDIRECT L2R TAP)		
COMMAND (MMI REDIRECT RA TAP)		
COMMAND (MMI REDIRECT UDP TAP)		
COMMAND (MMI REDIRECT IP TAP)		
COMMAND (MMI REDIRECT UART TAP)		
COMMAND (MMI REDIRECT PPP TAP)		
COMMAND (MMI REDIRECT WAP TAP)		
COMMAND (PL REDIRECT MMI NULL)		
COMMAND (TAP REDIRECT TAP MMI)		
COMMAND (MMI REDIRECT MMI TAP)		

Parametrization:

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

3.2 Activation

Description:

Preamble:

	APL	ACI	PS
(1)			
	ACI_CMD_REQ		
	(cmd: +CMEE=2)		
	=====>		
(2)			
	ACI_CMD_IND		
	(msg: OK)		
	<=====		
(3)			
	ACI_CMD_REQ		
	(cmd: +CFUN=1)		
	=====>		
(4)			
		SIM_ACTIVATE_REQ	
		=====>	

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

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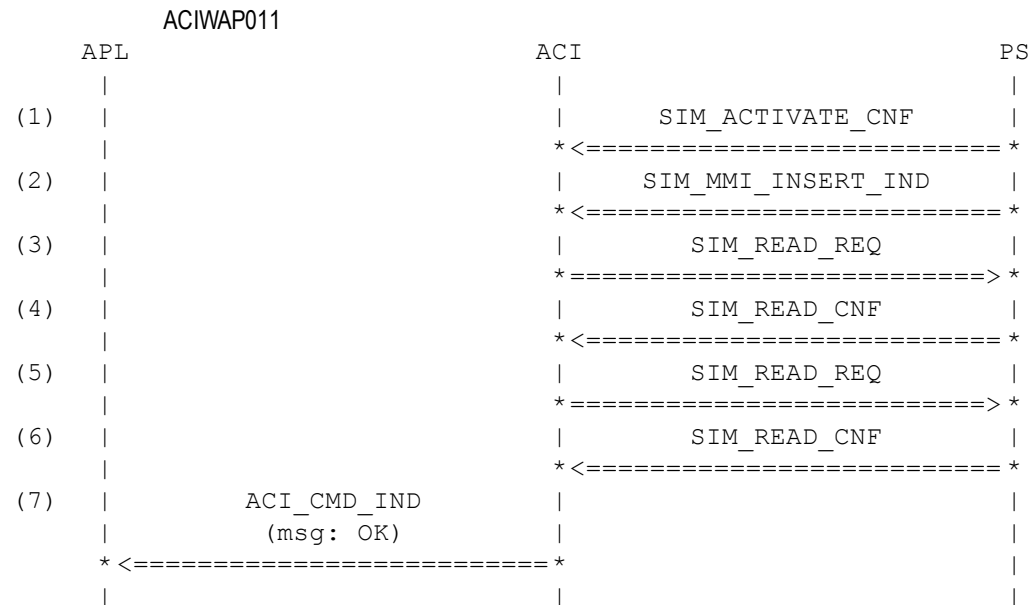
44/164

3.2.2 ACIWAP012: PIN not required

Description:

after activation of the SIM, it is detected that no PIN is required. The network registration is started.

Preamble:



Parametrization:

Primitive	Parameter	Value
(1) SIM_ACTIVATE_CNF	cause	SIM_NO_ERROR
	pin_cnt	NUM_3
	puk_cnt	NUM_9
	pin2_cnt	NUM_3
	puk2_cnt	NUM_9
	ec_code	NOT_USED
	pref_lang	NOT_USED
(2) SIM_MMI_INSERT_IND	func	SIM_ADN_ENABLED
	sim_serv	NOT_USED
	imsi_field	NOT_USED
	pref_plmn	NOT_USED
	phase	PHASE_2_SIM
	access_acm	NOT_USED
	access_acmmax	NOT_USED
	access_puct	NOT_USED
(3) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_ECC
	length	NOT_PRESENT_8BIT
	max_length	NUM_0
(4) SIM_READ_CNF	datafield	SIM_ECC
	cause	SIM_NO_ERROR

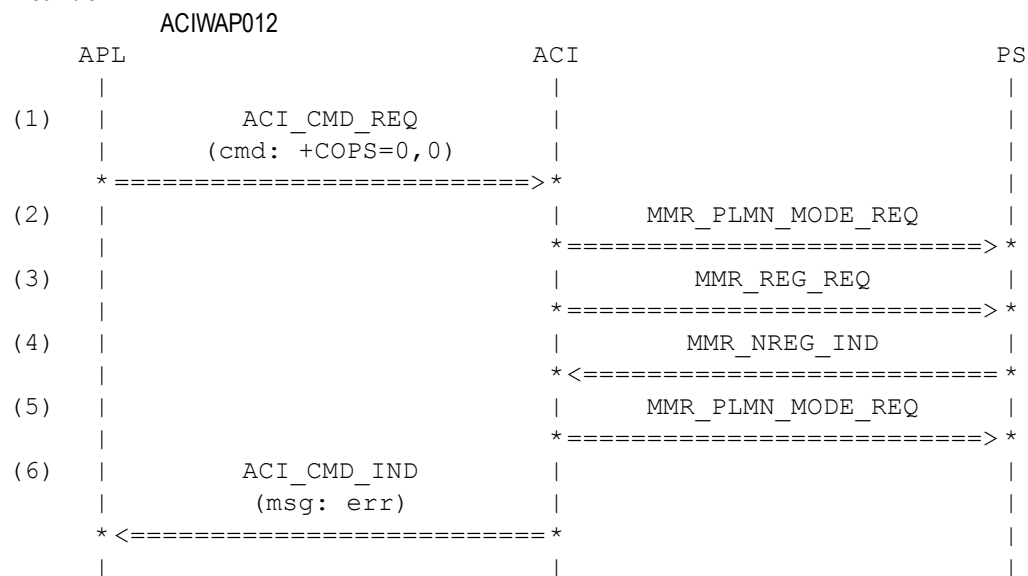
	length	NUM_12
	trans_data	A_ECC_FIELD
(5) SIM_READ_REQ	source	SRC_MMI
	offset	NUM_0
	datafield	SIM_AD
	length	NOT_PRESENT_8BIT
	max_length	NUM_0
(6) SIM_READ_CNF	datafield	SIM_AD
	cause	SIM_NO_ERROR
	length	NUM_4
	trans_data	A_AD_FIELD_CI_DISABLED
(7) ACI_CMD_IND	cmd_len	LM_OK
	cmd_seq	M_OK
History:	10.08.98 ACI Initial	
	17.02.2003 TLU extended to SIM_READ_REQ(SIM_AD)	

3.2.3 ACIWAP013: Limited service available

Description:

registration to network ends up with limited service available

Preamble:



Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PLUS_COPS_REG
	cmd_seq	C_PLUS_COPS_REG

(2) MMR_PLMN_MODE_REQ	mode	MODE_AUTO
(3) MMR_REG_REQ	service_mode	SERVICE_MODE_FULL
(4) MMR_NREG_IND	service search_running new_forb_plmn cause	NREG_LIMITED_SERVICE SEARCH_NOT_RUNNING F_PLMN_NOT_PRESENT MMCS_PLMN_NOT_ALLOWED
(5) MMR_PLMN_MODE_REQ	mode	MODE_AUTO
(6) ACI_CMD_IND	cmd_len cmd_seq	LM_ERR_NO_NTW_SRV M_ERR_NO_NTW_SRV

History: 10.08.98 ACI Initial

3.3 Initialisation and start call (ACIWAP020 – ACI0XX)

3.3.1 ACIWAP020: Initialisation of a WAP call. AT%WAP and AT%PPP

Description:

Preamble:

ACIWAP013

APL	ACI	PS
(1)	ACI_CMD_REQ (cmd: AT%WAP)	
	* <===== > *	
(2)	ACI_CMD_IND (msg: OK)	
	* <===== > *	
(3)	ACI_CMD_REQ (cmd: AT%PPP=1,"toto","tb")	
	* <===== > *	
(4)	ACI_CMD_IND (msg: OK)	
	* <===== > *	

Parametrization

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src cmd_len cmd_seq	CMD_SRC_EXT LC_PERCENT_WAP C_PERCENT_WAP

(2) ACI_CMD_IND	cmd_len	LM_OK
	cmd_seq	M_OK
(3) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	LC_PERCENT_PPP
	cmd_seq	C_PERCENT_PPP
(4) ACI_CMD_IND	cmd_len	LM_OK
	cmd_seq	M_OK

History: 14.09.00 Clb Initial

3.3.2 ACIWAP021: Dialling of a WAP call (part 1)

Description:

Preamble: ACIWAP020

APL	ACI	PS
(1)	ACI_CMD_REQ (cmd: ATDXXX)	
	=====>	
(2)	MNCC_SETUP_REQ	
	=====>	
(3)	SIM_SYNC_REQ	
	=====>	
(4)	MNCC_CALL_PROCEED_IND	
	<=====	
(5)	MNCC_SYNC_IND	
	<=====	
(6)	MNCC_SETUP_CNF	
	<=====	
(7)	WAP_DTI_REQ	
	=====>	
(8)	UDPA_DTI_REQ	
	=====>	
(9)	UDPA_DTI_REQ	
	=====>	
(10)	IPA_DTI_REQ	
	=====>	
(11)	WAP_DTI_CNF	
	<=====	
(12)	UDPA_DTI_CNF	
	<=====	
(13)	UDPA_DTI_CNF	
	<=====	
(14)	IPA_DTI_CNF	
	<=====	
(15)	RA_ACTIVATE_REQ	
	=====>	
(16)	RA_ACTIVATE_CNF	
	<=====	
(17)	L2R_ACTIVATE_REQ	
	=====>	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	LC_D_WAP
	cmd_seq	C_D_WAP
(2) MNCC_SETUP_REQ	ti	NUM_0
	prio	PRIQ_NORM_CALL
	ri	NOT_PRESENT_8BIT
	bcpara	S_BS_DAT_9600_ASY_NON_TRA
	bcpara2	S_BS_NOT_PRESENT
	called_party	S_CLD_PARTY
	called_party_sub	S_CLD_PARTY_SUB

	clir_sup	NOT_PRESENT_8BIT
	fac_inf	NOT_USED
(3) SIM_SYNC_REQ		
	synccs	SYNC_START_CALL
(4) MNCC_CALL_PROCEED_IND		
	ti	NUM_0
	progress_desc	PROG_NOT_PRES
	ri	NOT_PRESENT_8BIT
	bcpara	S_BS_DAT_9600_ASY_NON_TRA
	bcpara2	S_BS_NOT_PRESENT
(5) MNCC_SYNC_IND		
	ti	NOT_PRESENT_8BIT
	cause	MNCC_CAUSE_NO_MS_CAUSE
	chm	S_CHN_FULL_9600
(6) MNCC_SETUP_CNF		
	ti	NUM_0
	cause	MNCC_CAUSE_SUCCESS
	progress_desc	PROG_NOT_PRES
	connected_number	S_CLG_PARTY
	connected_number_sub	S_CLG_PARTY_SUB
(7) WAP_DTI_REQ		
	dti_conn	WAP_CONNECT_DTI
	entity_name	S_UDP_NAME
	link_id	WAP_UDP_LINK_ID
	dti_direction	NUM_1
(8) UDPA_DTI_REQ		
	dti_conn	UDPA_CONNECT_DTI
	entity_name	S_WAP_NAME
	link_id	WAP_UDP_LINK_ID
	dti_direction	UDPA_DTI_TO_HIGHER_LAYER
(9) UDPA_DTI_REQ		
	dti_conn	UDPA_CONNECT_DTI
	entity_name	S_IP_NAME
	link_id	UDP_IP_LINK_ID
	dti_direction	UDPA_DTI_TO_LOWER_LAYER
(10) IPA_DTI_REQ		
	dti_conn	IPA_CONNECT_DTI
	entity_name	S_UDP_NAME
	link_id	UDP_IP_LINK_ID
	dti_direction	IPA_DTI_TO_HIGHER_LAYER
(11) WAP_DTI_CNF		
	dti_conn	WAP_UDP_LINK_ID
(12) UDPA_DTI_CNF		
	dti_conn	UDPA_CONNECT_DTI
	link_id	WAP_UDP_LINK_ID
(13) UDPA_DTI_CNF		
	dti_conn	UDPA_CONNECT_DTI
	link_id	UDP_IP_LINK_ID

(14) IPA_DTI_CNF	dti_conn	IPA_CONNECT_DTI
	link_id	UDP_IP_LINK_ID
(15) RA_ACTIVATE_REQ	model	RA_MODEL_RLP
	tra_rate	TRA_FULLRATE_9600
	user_rate	URA_9600
	ndb	NUM_8
	nsb	NUM_1
(16) RA_ACTIVATE_CNF	ack_flg	RA_ACK
(17) L2R_ACTIVATE_REQ	k_ms_iwf	NOT_USED
	k_iwf_ms	NOT_USED
	t1	NOT_USED
	t2	NOT_USED
	n2	NOT_USED
	pt	L2R_COMPR_TYPE_V42BIS
	p0	L2R_COMP_DIR_NONE
	p1	NUM_512
	p2	NUM_6
	uil2p	L2R_ISO6429
	bytes_per_prim	NOT_USED
	buffer_size	NOT_USED
	rate	L2R_FULLRATE_9600

History: 20.05.00 Clb Initial
 23.10.01 KGT Updated
 06.01.03 TLU adaptation to new IPA and UDPA SAP
 21.02.03 TLU WAP DTI handling added

3.3.3 ACIWAP022: Dialling of a WAP Call (Part 2)

Description:

Preamble: ACIWAP021

APL	ACI	PS
(1)	L2R_XID_IND	
	* <=====	*
(2)	L2R_ACTIVATE_CNF	
	* <=====	*
(3)	L2R_CONNECT_REQ	
	* =====>	*
(4)	L2R_CONNECT_CNF	
	* <=====	*
(5)	IPA_DTI_REQ	
	* =====>	*
(6)	PPP_ESTABLISH_REQ	
	* =====>	*
(7)	L2R_DTI_REQ	
	* =====>	*
(8)	IPA_DTI_CNF	
	* <=====	*
(9)	PPP_DTI_CONNECTED_IND	
	* <=====	*
(10)	PPP_DTI_CONNECTED_IND	
	* <=====	*
(11)	L2R_DTI_CNF	
	* <=====	*
(12)	PPP_ESTABLISH_CNF	
	* <=====	*
(13)	IPA_CONFIG_REQ	
	* =====>	*
(14)	IPA_CONFIG_CNF	
	* <=====	*
(15)	UDPA_CONFIG_REQ	
	* =====>	*
(16)	UDPA_CONFIG_CNF	
	* <=====	*
(17)	ACI_CMD_IND	
	(msg: CONNECT)	
	* <=====	*

Parametrization:

Primitive	Parameter	Value
(1) L2R_XID_IND	rlp_vers	NUM_1
	k_ms_iwf	NOT_USED
	k_iwf_ms	NOT_USED
	t1	NOT_USED
	t2	NOT_USED
	n2	NOT_USED
	pt	L2R_COMPR_TYPE_V42BIS
	p0	L2R_COMP_DIR_NONE
	p1	NUM_512
	p2	NUM_6
(2) L2R_ACTIVATE_CNF	ack_flg	L2R_ACK

(3)	L2R_CONNECT_REQ		
(4)	L2R_CONNECT_CNF	ack_flg	L2R_ACK
(5)	IPA_DTI_REQ	dti_conn entity_name link_id dti_direction	IPA_CONNECT_DTI S_PPP_NAME IP_PPP_LINK_ID IPA_DTI_TO_LOWER_LAYER
(6)	PPP_ESTABLISH_REQ	mode mru ap login accm rt mc mt mf ppp_hc ip dns1 dns2 peer_channel protocol_channel peer_direction prot_direction peer_link_id prot_link_id	PPP_CLIENT PPP_MRU_DEFAULT PPP_AP_PAP NOT_USED PPP_ACCM_DEFAULT PPP_RT_DEFAULT PPP_MC_DEFAULT PPP_MT_DEFAULT PPP_MF_DEFAULT PPP_HC_OFF PPP_IP_DYNAMIC PPP_DNS1_DYNAMIC PPP_DNS2_DYNAMIC L2R_CHANNEL IP_CHANNEL TO_LOWER_LAYER TO_HIGHER_LAYER PPP_L2R_LINK_ID IP_PPP_LINK_ID
(7)	L2R_DTI_REQ	dti_conn entity_name link_id dti_direction	L2R_CONNECT_DTI S_PPP_NAME PPP_L2R_LINK_ID L2R_DTI_NORMAL
(8)	IPA_DTI_CNF	dti_conn link_id	IPA_CONNECT_DTI IP_PPP_LINK_ID
(9)	PPP_DTI_CONNECTED_IND	connected_direction	PPP_DTI_CONN_PEER
(10)	PPP_DTI_CONNECTED_IND	connected_direction	PPP_DTI_CONN_PROT
(11)	L2R_DTI_CNF	dti_conn link_id	L2R_CONNECT_DTI PPP_L2R_LINK_ID
(12)	PPP_ESTABLISH_CNF	mru ppp_hc msid ip dns1 dns2	PPP_MRU_DEFAULT PPP_HC_OFF NOT_USED NOT_USED NOT_USED NOT_USED

(13)	IPA_CONFIG_REQ	ip	PPP_IP_DYNAMIC
		peer_ip	NOT_USED
		mtu	PPP_MRU_DEFAULT
		cmd	IPA_CONFIG_UP
(14)	IPA_CONFIG_CNF	ack_flag	NOT_USED
		all_down	NOT_USED
(15)	UDPA_CONFIG_REQ	cmd	UDPA_CONFIG_UP
(16)	UDPA_CONFIG_CNF		
(17)	ACI_CMD_IND	cmd_len	LM_CONNECT
		cmd_seq	M_CONNECT
History:	20.05.00	Clb	Initial
	10.04.02	Rm	Update

3.3.4 ACIWAP023: Dialling of a WAP Call (Part 2)... Used as a preamble 1

Description:

Preamble: ACIWAP021

Variants: <A>....

APL	ACI	PS
(1)	L2R_XID_IND	
(2)	L2R_ACTIVATE_CNF	
(3)	L2R_CONNECT_REQ	
(4)	L2R_CONNECT_CNF	

Parametrization:

Primitive	Parameter	Value
(1) L2R_XID_IND	rlp_vers	NUM_1
	k_ms_iwf	NOT_USED
	k_iwf_ms	NOT_USED
	t1	NOT_USED
	t2	NOT_USED
	n2	NOT_USED
	pt	L2R_COMPR_TYPE_V42BIS
	p0	L2R_COMP_DIR_NONE
	p1	NUM_512
	p2	NUM_6

(2) L2R_ACTIVATE_CNF

<A>

ack_flg

L2R_ACK

ack_flg

L2R_ACK

(3) L2R_CONNECT_REQ

(4) L2R_CONNECT_CNF

<A>

ack_flg

L2R_ACK

ack_flg

L2R_NAK

History:

20.05.00

Clb

Initial

3.3.5 ACIWAP024: Dialling of a WAP Call (Part 2)... Used as a preamble 2

Description:

Preamble: ACIWAP021

APL	ACI	PS
(1)		
	L2R_XID_IND	
	* <=====*	
(2)		
	L2R_ACTIVATE_CNF	
	* <=====*	
(3)		
	L2R_CONNECT_REQ	
	* =====>*	
(4)		
	L2R_CONNECT_CNF	
	* <=====*	
(5)		
	IPA_DTI_REQ	
	* =====>*	
(6)		
	PPP_ESTABLISH_REQ	
	* =====>*	
(7)		
	L2R_DTI_REQ	
	* =====>*	
(8)		
	IPA_DTI_CNF	
	* <=====*	
(9)		
	PPP_DTI_CONNECTED_IND	
	* <=====*	
(10)		
	PPP_DTI_CONNECTED_IND	
	* <=====*	
(11)		
	L2R_DTI_CNF	
	* <=====*	

Parametrization:

Primitive	Parameter	Value
(1) L2R_XID_IND	rlp_vers	NUM_1
	k_ms_iwf	NOT_USED
	k_iwf_ms	NOT_USED
	t1	NOT_USED
	t2	NOT_USED
	n2	NOT_USED

	pt	L2R_COMPR_TYPE_V42BIS
	p0	L2R_COMP_DIR_NONE
	p1	NUM_512
	p2	NUM_6
(2) L2R_ACTIVATE_CNF		
	ack_flg	L2R_ACK
(3) L2R_CONNECT_REQ		
(4) L2R_CONNECT_CNF		
	ack_flg	L2R_ACK
(5) IPA_DTI_REQ		
	dti_conn	IPA_CONNECT_DTI
	entity_name	S_PPP_NAME
	link_id	IP_PPP_LINK_ID
	dti_direction	IPA_DTI_TO_LOWER_LAYER
(6) PPP_ESTABLISH_REQ		
	mode	PPP_CLIENT
	mru	PPP_MRU_DEFAULT
	ap	PPP_AP_PAP
	login	NOT_USED
	accm	PPP_ACCM_DEFAULT
	rt	PPP_RT_DEFAULT
	mc	PPP_MC_DEFAULT
	mt	PPP_MT_DEFAULT
	mf	PPP_MF_DEFAULT
	ppp_hc	PPP_HC_OFF
	ip	PPP_IP_DYNAMIC
	dns1	PPP_DNS1_DYNAMIC
	dns2	PPP_DNS2_DYNAMIC
	peer_channel	L2R_CHANNEL
	protocol_channel	IP_CHANNEL
	peer_direction	TO_LOWER_LAYER
	prot_direction	TO_HIGHER_LAYER
	peer_link_id	PPP_L2R_LINK_ID
	prot_link_id	IP_PPP_LINK_ID
(7) L2R_DTI_REQ		
	dti_conn	L2R_CONNECT_DTI
	entity_name	S_PPP_NAME
	link_id	PPP_L2R_LINK_ID
	dti_direction	L2R_DTI_NORMAL
(8) IPA_DTI_CNF		
	dti_conn	IPA_CONNECT_DTI
	link_id	IP_PPP_LINK_ID
(9) PPP_DTI_CONNECTED_IND		
	connected_direction	PPP_DTI_CONN_PEER
(10) PPP_DTI_CONNECTED_IND		
	connected_direction	PPP_DTI_CONN_PROT
(11) L2R_DTI_CNF		
	dti_conn	L2R_CONNECT_DTI
	link_id	PPP_L2R_LINK_ID

History: 07.12.00 xof Initial

3.3.6 ACIWAP025: Dialling of a WAP Call (Part 2)

Description:

Preamble: ACIWAP021

APL	ACI	PS
(1)	L2R_XID_IND	
	* <=====	*
(2)	L2R_ACTIVATE_CNF	
	* <=====	*
(3)	L2R_CONNECT_REQ	
	* =====>	*
(4)	L2R_CONNECT_CNF	
	* <=====	*
(5)	L2R_DEACTIVATE_REQ	
	* =====>	*
(6)	L2R_DEACTIVATE_CNF	
	* <=====	*
(7)	RA_DEACTIVATE_REQ	
	* =====>	*
(8)	RA_DEACTIVATE_CNF	
	* <=====	*
(9)	SIM_SYNC_REQ	
	* =====>	*
(10)	MNCC_DISCONNECT_REQ	
	* =====>	*
(11)	MNCC_RELEASE_IND	
	* <=====	*
(12)	ACI_CMD_IND	
	(msg: NO CARRIER)	
	* <=====	*

Parametrization:

Primitive	Parameter	Value
(1) L2R_XID_IND	rlp_vers	NUM_1
	k_ms_iwf	NOT_USED
	k_iwf_ms	NOT_USED
	t1	NOT_USED
	t2	NOT_USED
	n2	NOT_USED
	pt	L2R_COMPR_TYPE_V42BIS
	p0	L2R_COMP_DIR_NONE
	p1	NUM_512
	p2	NUM_6

(2)	L2R_ACTIVATE_CNF	ack_flg	L2R_ACK
(3)	L2R_CONNECT_REQ		
(4)	L2R_CONNECT_CNF	ack_flg	L2R_NAK
(5)	L2R_DEACTIVATE_REQ		
(6)	L2R_DEACTIVATE_CNF		
(7)	RA_DEACTIVATE_REQ		
(8)	RA_DEACTIVATE_CNF		
(9)	SIM_SYNC_REQ	synccs	SYNC_STOP_CALL
(10)	MNCC_DISCONNECT_REQ	ti cause fac_inf ss_version	NUM_0 MNCC_CAUSE_CALL_CLEAR NOT_USED NOT_USED
(11)	MNCC_RELEASE_IND	ti cause	NUM_0 MNCC_CAUSE_CALL_CLEAR
(12)	ACI_CMD_IND	cmd_len cmd_seq	LM_NO_CARRIER M_NO_CARRIER
History:	24.01.2002	KGT	Initial

3.4 Bugs by start call (ACIWAP030 – ACI0XX)

3.4.1 ACIWAP030: PPP_TERMINATE_IND received before PPP_ESTABLISH_CNF

Description: PPP_TERMINATE_IND received before (or instead of) PPP_ESTABLISH_CNF during setup call

Preamble: ACIWAP024

APL	ACI	PS
(1)	PPP_TERMINATE_IND	
(2)	WAP_DTI_REQ	
(3)	IPA_DTI_REQ	
(4)	WAP_DTI_CNF	
(5)	IPA_DTI_CNF	
(6)	UDPA_DTI_IND	
(7)	UDPA_DTI_IND	
(8)	L2R_DEACTIVATE_REQ	
(9)	L2R_DEACTIVATE_CNF	
(10)	RA_DEACTIVATE_REQ	
(11)	RA_DEACTIVATE_CNF	
(12)	SIM_SYNC_REQ	
(13)	MNCC_DISCONNECT_REQ	
(14)	MNCC_RELEASE_IND	
(15)	ACI_CMD_IND (msg: NO CARRIER)	

Parametrization:

Primitive	Parameter	Value
(1) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_NO_CHANNEL
(2) WAP_DTI_REQ	dti_conn	WAP_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	WAP_UDP_LINK_ID
	dti_direction	NUM_1
(3) IPA_DTI_REQ	dti_conn	IPA_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	UDP_IP_LINK_ID
	dti_direction	NOT_USED
(4) WAP_DTI_CNF	dti_conn	WAP_DISCONNECT_DTI

(5)	IPA_DTI_CNF	dti_conn link_id	IPA_DISCONNECT_DTI UDP_IP_LINK_ID
(6)	UDPA_DTI_IND	link_id	WAP_UDP_LINK_ID
(7)	UDPA_DTI_IND	link_id	UDP_IP_LINK_ID
(8)	L2R_DEACTIVATE_REQ		
(9)	L2R_DEACTIVATE_CNF		
(10)	RA_DEACTIVATE_REQ		
(11)	RA_DEACTIVATE_CNF		
(12)	SIM_SYNC_REQ	syncs	SYNC_STOP_CALL
(13)	MNCC_DISCONNECT_REQ	ti cause fac_inf ss_version	NUM_0 MNCC_CAUSE_CALL_CLEAR NOT_USED NOT_USED
(14)	MNCC_RELEASE_IND	ti cause	NUM_0 MNCC_CAUSE_CALL_CLEAR
(15)	ACI_CMD_IND	cmd_len cmd_seq	LM_NO_CARRIER M_NO_CARRIER

History: 06.10.2000 Clb Initial
 06.01.2003 TLU adaptation to new IPA and UDPA SAP
 21.02.03 TLU WAP DTI handling added

3.4.2 ACIWAP031: PPP_TERMINATE_IND received after PPP_ESTABLISH_CNF

Description:

The handling of a PPP_TERMINATE_IND during the setup phase of the call, should be the same as normal as soon as a IPA_CONFIG_REQ has been sent (i.e normal termination sequence of the call).

Preamble: ACIWAP024

APL	ACI	PS
(1)	PPP_ESTABLISH_CNF	
(2)	IPA_CONFIG_REQ	
(3)	PPP_TERMINATE_IND	
(4)	IPA_CONFIG_REQ	
(5)	IPA_CONFIG_CNF	
(6)	UDPA_CONFIG_REQ	
(7)	UDPA_CONFIG_CNF	
(8)	WAP_DTI_REQ	
(9)	IPA_DTI_REQ	
(10)	WAP_DTI_CNF	
(11)	IPA_DTI_CNF	
(12)	UDPA_DTI_IND	
(13)	UDPA_DTI_IND	
(14)	L2R_DEACTIVATE_REQ	
(15)	L2R_DEACTIVATE_CNF	
(16)	RA_DEACTIVATE_REQ	
(17)	RA_DEACTIVATE_CNF	
(18)	SIM_SYNC_REQ	
(19)	MNCC_DISCONNECT_REQ	
(20)	MNCC_RELEASE_IND	
(21)	ACI_CMD_IND (msg: NO CARRIER)	

Parametrization:

Primitive	Parameter	Value
(1) PPP_ESTABLISH_CNF	mru ppp_hc msid ip	PPP_MRU_DEFAULT NOT_USED NOT_USED PPP_IP_DYNAMIC

	dns1	NOT_USED
	dns2	NOT_USED
(2) IPA_CONFIG_REQ	ip	PPP_IP_DYNAMIC
	peer_ip	NOT_USED
	mtu	PPP_MRU_DEFAULT
	cmd	IPA_CONFIG_UP
(3) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_NO_CHANNEL
(4) IPA_CONFIG_REQ	ip	NUM_0
	peer_ip	NUM_0
	mtu	NUM_0
	cmd	IPA_CONFIG_DOWN
(5) IPA_CONFIG_CNF	ack_flag	NOT_USED
	all_down	IPA_ALLDOWN_TRUE
(6) UDPA_CONFIG_REQ	cmd	UDPA_CONFIG_DOWN
(7) UDPA_CONFIG_CNF		
(8) WAP_DTI_REQ	dti_conn	WAP_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	WAP_UDP_LINK_ID
	dti_direction	NUM_1
(9) IPA_DTI_REQ	dti_conn	IPA_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	UDP_IP_LINK_ID
	dti_direction	NOT_USED
(10) WAP_DTI_CNF	dti_conn	WAP_DISCONNECT_DTI
(11) IPA_DTI_CNF	dti_conn	IPA_DISCONNECT_DTI
	link_id	UDP_IP_LINK_ID
(12) UDPA_DTI_IND	link_id	WAP_UDP_LINK_ID
(13) UDPA_DTI_IND	link_id	UDP_IP_LINK_ID
(14) L2R_DEACTIVATE_REQ		
(15) L2R_DEACTIVATE_CNF		
(16) RA_DEACTIVATE_REQ		
(17) RA_DEACTIVATE_CNF		
(18) SIM_SYNC_REQ	syncs	SYNC_STOP_CALL
(19) MNCC_DISCONNECT_REQ	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR

	fac_inf	NOT_USED
	ss_version	NOT_USED
(20) MNCC_RELEASE_IND	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
(21) ACI_CMD_IND	cmd_len	LM_NO_CARRIER
	cmd_seq	M_NO_CARRIER

History: 06.10.2000 Cib Initial
 06.01.2003 TLU adaptation to new IPA and UDPa SAP
 21.02.03 TLU WAP DTI handling added

3.4.3 ACIWAP032: L2R_DISC_IND received at once after L2R_CONNECT_CNF

Description:

Preamble: ACIWAP024

APL	ACI	PS
(1)	L2R_DISC_IND	
(2)	PPP_TERMINATE_REQ	
(3)	PPP_TERMINATE_IND	
(4)	WAP_DTI_REQ	
(5)	IPA_DTI_REQ	
(6)	WAP_DTI_CNF	
(7)	IPA_DTI_CNF	
(8)	UDPA_DTI_IND	
(9)	UDPA_DTI_IND	
(10)	L2R_DEACTIVATE_REQ	
(11)	L2R_DEACTIVATE_CNF	
(12)	RA_DEACTIVATE_REQ	
(13)	RA_DEACTIVATE_CNF	
(14)	SIM_SYNC_REQ	
(15)	MNCC_DISCONNECT_REQ	
(16)	MNCC_RELEASE_IND	
(17)	ACI_CMD_IND (msg: NO CARRIER)	
	* <=====	

Parametrization:

Primitive	Parameter	Value
(1) L2R_DISC_IND		
(2) PPP_TERMINATE_REQ	lower_layer	PPP_LOWER_LAYER_DOWN
(3) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_OK_MMI
(4) WAP_DTI_REQ	dti_conn	WAP_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	WAP_UDP_LINK_ID
	dti_direction	NUM_1

(5) IPA_DTI_REQ	dti_conn entity_name link_id dti_direction	IPA_DISCONNECT_DTI NOT_USED UDP_IP_LINK_ID NOT_USED
(6) WAP_DTI_CNF	dti_conn	WAP_DISCONNECT_DTI
(7) IPA_DTI_CNF	dti_conn link_id	IPA_DISCONNECT_DTI UDP_IP_LINK_ID
(8) UDPA_DTI_IND	link_id	WAP_UDP_LINK_ID
(9) UDPA_DTI_IND	link_id	UDP_IP_LINK_ID
(10) L2R_DEACTIVATE_REQ		
(11) L2R_DEACTIVATE_CNF		
(12) RA_DEACTIVATE_REQ		
(13) RA_DEACTIVATE_CNF		
(14) SIM_SYNC_REQ	syncss	SYNC_STOP_CALL
(15) MNCC_DISCONNECT_REQ	ti cause fac_inf ss_version	NUM_0 MNCC_CAUSE_CALL_CLEAR NOT_USED NOT_USED
(16) MNCC_RELEASE_IND	ti cause	NUM_0 MNCC_CAUSE_CALL_CLEAR
(17) ACI_CMD_IND	cmd_len cmd_seq	LM_NO_CARRIER M_NO_CARRIER

History: 07.12.00 xof Initial
 06.01.03 TLU adaptation to new IPA and UDPA SAP
 21.02.03 TLU WAP DTI handling added

3.5 Hang up from MMI, (ATH)(ACIWAP040 – ACI0XX)

3.5.1 ACIWAP040: MMI hang up phone (ATH)

Description:

Preamble: ACIWAP022

Variants: <A>....

MMI	ACI	PS
(1)	ACI_CMD_REQ (cmd: ATH)	
	=====>	
(2)	PPP_TERMINATE_REQ	
	=====>	
(3)	PPP_TERMINATE_IND	
	<=====	
(4)	IPA_CONFIG_REQ	
	=====>	
(5)	IPA_CONFIG_CNF	
	<=====	
(6)	UDPA_CONFIG_REQ	
	=====>	
(7)	UDPA_CONFIG_CNF	
	<=====	
(8)	WAP_DTI_REQ	
	=====>	
(9)	IPA_DTI_REQ	
	=====>	
(10)	WAP_DTI_CNF	
	<=====	
(11)	IPA_DTI_CNF	
	<=====	
(12)	UDPA_DTI_IND	
	<=====	
(13)	UDPA_DTI_IND	
	<=====	
(14)	L2R_DEACTIVATE_REQ	
	=====>	
(15)	L2R_DEACTIVATE_CNF	
	<=====	
(16)	RA_DEACTIVATE_REQ	
	=====>	
(17)	RA_DEACTIVATE_CNF	
	<=====	
(18)	SIM_SYNC_REQ	
	=====>	
(19)	MNCC_DISCONNECT_REQ	
	=====>	
(20)	MNCC_RELEASE_IND	
	<=====	
(21)	ACI_CMD_IND (msg: OK)	
	<=====	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_H
	cmd_len	LC_PLUS_CHUP

<A>	cmd_seq	C_H
	cmd_seq	C_PLUS_CHUP
(2) PPP_TERMINATE_REQ	lower_layer	PPP_LOWER_LAYER_UP
(3) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_OK_PEER
(4) IPA_CONFIG_REQ	ip	NUM_0
	peer_ip	NUM_0
	mtu	NUM_0
	cmd	IPA_CONFIG_DOWN
(5) IPA_CONFIG_CNF	ack_flag	NOT_USED
	all_down	IPA_ALLDOWN_TRUE
(6) UDPA_CONFIG_REQ	cmd	UDPA_CONFIG_DOWN
(7) UDPA_CONFIG_CNF		
(8) WAP_DTI_REQ	dti_conn	WAP_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	WAP_UDP_LINK_ID
	dti_direction	NUM_1
(9) IPA_DTI_REQ	dti_conn	IPA_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	UDP_IP_LINK_ID
	dti_direction	NOT_USED
(10) WAP_DTI_CNF	dti_conn	WAP_DISCONNECT_DTI
(11) IPA_DTI_CNF	dti_conn	IPA_DISCONNECT_DTI
	link_id	UDP_IP_LINK_ID
(12) UDPA_DTI_IND	link_id	WAP_UDP_LINK_ID
(13) UDPA_DTI_IND	link_id	UDP_IP_LINK_ID
(14) L2R_DEACTIVATE_REQ		
(15) L2R_DEACTIVATE_CNF		
(16) RA_DEACTIVATE_REQ		
(17) RA_DEACTIVATE_CNF		
(18) SIM_SYNC_REQ	syncs	SYNC_STOP_CALL
(19) MNCC_DISCONNECT_REQ	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	fac_inf	NOT_USED
	ss_version	NOT_USED

(20) MNCC_RELEASE_IND

ti

NUM_0

cause

MNCC_CAUSE_CALL_CLEAR

(21) ACI_CMD_IND

cmd_len

LM_OK

cmd_seq

M_OK

History:	20.05.00 Clb	Initial
	06.01.03 TLU	adaptation to new IPA and UDPA SAP
	21.02.03 TLU	WAP DTI handling added

3.5.2 ACIWAP041: MMI hang up phone (ATH), terminate PPP and receive disconnect from peer

Description:

Preamble: ACIWAP022

Variants: <A>....

MMI	ACI	PS
(1)	ACI_CMD_REQ (cmd: ATH)	
	=====>	
(2)	PPP_TERMINATE_REQ	
	=====>	
(3)	MNCC_DISCONNECT_IND	
	<=====	
(4)	SIM_SYNC_REQ	
	=====>	
(5)	MNCC_RELEASE_CNF	
	<=====	
(6)	PPP_TERMINATE_IND	
	<=====	
(7)	IPA_CONFIG_REQ	
	=====>	
(8)	IPA_CONFIG_CNF	
	<=====	
(9)	UDPA_CONFIG_REQ	
	=====>	
(10)	UDPA_CONFIG_CNF	
	<=====	
(11)	WAP_DTI_REQ	
	=====>	
(12)	IPA_DTI_REQ	
	=====>	
(13)	WAP_DTI_CNF	
	<=====	
(14)	IPA_DTI_CNF	
	<=====	
(15)	UDPA_DTI_IND	
	<=====	
(16)	UDPA_DTI_IND	
	<=====	
(17)	L2R_DEACTIVATE_REQ	
	=====>	
(18)	L2R_DEACTIVATE_CNF	
	<=====	
(19)	RA_DEACTIVATE_REQ	
	=====>	
(20)	RA_DEACTIVATE_CNF	
	<=====	
(21)	ACI_CMD_IND (msg: OK)	
	<=====	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_H
	cmd_len	LC_PLUS_CHUP

<A>	cmd_seq	C_H
	cmd_seq	C_PLUS_CHUP
(2) PPP_TERMINATE_REQ	lower_layer	PPP_LOWER_LAYER_UP
(3) MNCC_DISCONNECT_IND	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	diagnostic	NOT_PRESENT_8BIT
	progress_desc	PROG_NOT_PRES
(4) SIM_SYNC_REQ	synccs	SYNC_STOP_CALL
(5) MNCC_RELEASE_CNF	ti	NOT_USED
	cause	NOT_USED
(6) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_NO_CHANNEL
(7) IPA_CONFIG_REQ	ip	NUM_0
	peer_ip	NUM_0
	mtu	NUM_0
	cmd	IPA_CONFIG_DOWN
(8) IPA_CONFIG_CNF	ack_flag	NOT_USED
	all_down	IPA_ALLDOWN_TRUE
(9) UDPA_CONFIG_REQ		
	cmd	UDPA_CONFIG_DOWN
(10) UDPA_CONFIG_CNF		
(11) WAP_DTI_REQ		
	dti_conn	WAP_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	WAP_UDP_LINK_ID
	dti_direction	NUM_1
(12) IPA_DTI_REQ		
	dti_conn	IPA_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	UDP_IP_LINK_ID
	dti_direction	NOT_USED
(13) WAP_DTI_CNF		
	dti_conn	WAP_DISCONNECT_DTI
(14) IPA_DTI_CNF		
	dti_conn	IPA_DISCONNECT_DTI
	link_id	UDP_IP_LINK_ID
(15) UDPA_DTI_IND		
	link_id	WAP_UDP_LINK_ID
(16) UDPA_DTI_IND		
	link_id	UDP_IP_LINK_ID
(17) L2R_DEACTIVATE_REQ		
(18) L2R_DEACTIVATE_CNF		
(19) RA_DEACTIVATE_REQ		
(20) RA_DEACTIVATE_CNF		
(21) ACI_CMD_IND	cmd_len	LM_OK
	cmd_seq	M_OK

History: 30.11.00 XOF Initial
 06.01.03 TLU adaptation to new IPA and UDPA SAP
 21.02.03 TLU WAP DTI handling added

3.5.3 ACIWAP042: MMI hang up phone (ATH), after IPA_CONFIG_REQ, peer disconnect

Description:

Preamble: ACIWAP022

Variants: <A>....

MMI	ACI	PS
(1)	ACI_CMD_REQ (cmd: ATH)	
	=====>	
(2)	PPP_TERMINATE_REQ	
	=====>	
(3)	PPP_TERMINATE_IND	
	<=====	
(4)	IPA_CONFIG_REQ	
	=====>	
(5)	MNCC_DISCONNECT_IND	
	<=====	
(6)	SIM_SYNC_REQ	
	=====>	
(7)	MNCC_RELEASE_CNF	
	<=====	
(8)	IPA_CONFIG_CNF	
	<=====	
(9)	UDPA_CONFIG_REQ	
	=====>	
(10)	UDPA_CONFIG_CNF	
	<=====	
(11)	WAP_DTI_REQ	
	=====>	
(12)	IPA_DTI_REQ	
	=====>	
(13)	WAP_DTI_CNF	
	<=====	
(14)	IPA_DTI_CNF	
	<=====	
(15)	UDPA_DTI_IND	
	<=====	
(16)	UDPA_DTI_IND	
	<=====	
(17)	L2R_DEACTIVATE_REQ	
	=====>	
(18)	L2R_DEACTIVATE_CNF	
	<=====	
(19)	RA_DEACTIVATE_REQ	
	=====>	
(20)	RA_DEACTIVATE_CNF	
	<=====	
(21)	ACI_CMD_IND (msg: OK)	
	<=====	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_H
	cmd_len	LC_PLUS_CHUP

<A>	cmd_seq	C_H
	cmd_seq	C_PLUS_CHUP
(2) PPP_TERMINATE_REQ	lower_layer	PPP_LOWER_LAYER_UP
(3) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_OK_MMI
(4) IPA_CONFIG_REQ	ip	NUM_0
	peer_ip	NUM_0
	mtu	NUM_0
	cmd	IPA_CONFIG_DOWN
(5) MNCC_DISCONNECT_IND	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	diagnostic	NOT_PRESENT_8BIT
	progress_desc	PROG_NOT_PRES
(6) SIM_SYNC_REQ	syncs	SYNC_STOP_CALL
(7) MNCC_RELEASE_CNF	ti	NOT_USED
	cause	NOT_USED
(8) IPA_CONFIG_CNF	ack_flag	NOT_USED
	all_down	IPA_ALLDOWN_TRUE
(9) UDPA_CONFIG_REQ		
	cmd	UDPA_CONFIG_DOWN
(10) UDPA_CONFIG_CNF		
(11) WAP_DTI_REQ	dti_conn	WAP_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	WAP_UDP_LINK_ID
	dti_direction	NUM_1
(12) IPA_DTI_REQ	dti_conn	IPA_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	UDP_IP_LINK_ID
	dti_direction	NOT_USED
(13) WAP_DTI_CNF		
	dti_conn	WAP_DISCONNECT_DTI
(14) IPA_DTI_CNF		
	dti_conn	IPA_DISCONNECT_DTI
	link_id	UDP_IP_LINK_ID
(15) UDPA_DTI_IND		
	link_id	WAP_UDP_LINK_ID
(16) UDPA_DTI_IND		
	link_id	UDP_IP_LINK_ID
(17) L2R_DEACTIVATE_REQ		
(18) L2R_DEACTIVATE_CNF		
(19) RA_DEACTIVATE_REQ		
(20) RA_DEACTIVATE_CNF		
(21) ACI_CMD_IND	cmd_len	LM_OK
	cmd_seq	M_OK

History: 30.11.00 XOF Initial
 06.01.03 TLU adaptation to new IPA and UDPA SAP
 21.02.03 TLU WAP DTI handling added

3.5.4 ACIWAP043: MMI hang up phone (ATH), before IPA_DTI_CNF (DISCONNECT), peer disconnect

Description:

Preamble: ACIWAP022

Variants: <A>....

MMI	ACI	PS
(1)	ACI_CMD_REQ (cmd: ATH)	
	=====>	
(2)	PPP_TERMINATE_REQ	
	=====>	
(3)	PPP_TERMINATE_IND	
	<=====	
(4)	IPA_CONFIG_REQ	
	=====>	
(5)	IPA_CONFIG_CNF	
	<=====	
(6)	UDPA_CONFIG_REQ	
	=====>	
(7)	UDPA_CONFIG_CNF	
	<=====	
(8)	WAP_DTI_REQ	
	=====>	
(9)	IPA_DTI_REQ	
	=====>	
(10)	MNCC_DISCONNECT_IND	
	<=====	
(11)	SIM_SYNC_REQ	
	=====>	
(12)	MNCC_RELEASE_CNF	
	<=====	
(13)	WAP_DTI_CNF	
	<=====	
(14)	IPA_DTI_CNF	
	<=====	
(15)	UDPA_DTI_IND	
	<=====	
(16)	UDPA_DTI_IND	
	<=====	
(17)	L2R_DEACTIVATE_REQ	
	=====>	
(18)	L2R_DEACTIVATE_CNF	
	<=====	
(19)	RA_DEACTIVATE_REQ	
	=====>	
(20)	RA_DEACTIVATE_CNF	
	<=====	
(21)	ACI_CMD_IND (msg: OK)	
	<=====	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_H
	cmd_len	LC_PLUS_CHUP

<A>	cmd_seq	C_H
	cmd_seq	C_PLUS_CHUP
(2) PPP_TERMINATE_REQ	lower_layer	PPP_LOWER_LAYER_UP
(3) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_OK_MMI
(4) IPA_CONFIG_REQ	ip	NUM_0
	peer_ip	NUM_0
	mtu	NUM_0
	cmd	IPA_CONFIG_DOWN
(5) IPA_CONFIG_CNF	ack_flag	NOT_USED
	all_down	IPA_ALLDOWN_TRUE
(6) UDPA_CONFIG_REQ		
	cmd	UDPA_CONFIG_DOWN
(7) UDPA_CONFIG_CNF		
(8) WAP_DTI_REQ	dti_conn	WAP_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	WAP_UDP_LINK_ID
	dti_direction	NUM_1
(9) IPA_DTI_REQ	dti_conn	IPA_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	UDP_IP_LINK_ID
	dti_direction	NOT_USED
(10) MNCC_DISCONNECT_IND	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	diagnostic	NOT_PRESENT_8BIT
	progress_desc	PROG_NOT_PRES
(11) SIM_SYNC_REQ	syncs	SYNC_STOP_CALL
(12) MNCC_RELEASE_CNF	ti	NOT_USED
	cause	NOT_USED
(13) WAP_DTI_CNF		
	dti_conn	WAP_DISCONNECT_DTI
(14) IPA_DTI_CNF		
	dti_conn	IPA_DISCONNECT_DTI
	link_id	UDP_IP_LINK_ID
(15) UDPA_DTI_IND		
	link_id	WAP_UDP_LINK_ID
(16) UDPA_DTI_IND		
	link_id	UDP_IP_LINK_ID
(17) L2R_DEACTIVATE_REQ		
(18) L2R_DEACTIVATE_CNF		
(19) RA_DEACTIVATE_REQ		
(20) RA_DEACTIVATE_CNF		
(21) ACI_CMD_IND	cmd_len	LM_OK
	cmd_seq	M_OK

History: 30.11.00 XOF Initial
 06.01.03 TLU adaptation to new IPA and UDPA SAP
 21.02.03 TLU WAP DTI handling added

3.5.5 ACIWAP044: MMI hang up phone (ATH), after IPA_DTI_REQ (DISCONNECT), peer disconnect

Description:

Preamble: ACIWAP022

Variants: <A>....

MMI	ACI	PS
(1)	ACI_CMD_REQ (cmd: ATH)	
	=====>	
(2)	PPP_TERMINATE_REQ	
	=====>	
(3)	PPP_TERMINATE_IND	
	<=====	
(4)	IPA_CONFIG_REQ	
	=====>	
(5)	IPA_CONFIG_CNF	
	<=====	
(6)	UDPA_CONFIG_REQ	
	=====>	
(7)	UDPA_CONFIG_CNF	
	<=====	
(8)	WAP_DTI_REQ	
	=====>	
(9)	IPA_DTI_REQ	
	=====>	
(10)	WAP_DTI_CNF	
	<=====	
(11)	IPA_DTI_CNF	
	<=====	
(12)	UDPA_DTI_IND	
	<=====	
(13)	UDPA_DTI_IND	
	<=====	
(14)	L2R_DEACTIVATE_REQ	
	=====>	
(15)	MNCC_DISCONNECT_IND	
	<=====	
(16)	SIM_SYNC_REQ	
	=====>	
(17)	MNCC_RELEASE_CNF	
	<=====	
(18)	L2R_DEACTIVATE_CNF	
	<=====	
(19)	RA_DEACTIVATE_REQ	
	=====>	
(20)	RA_DEACTIVATE_CNF	
	<=====	
(21)	ACI_CMD_IND (msg: OK)	
	<=====	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_H
	cmd_len	LC_PLUS_CHUP

<A>	cmd_seq	C_H
	cmd_seq	C_PLUS_CHUP
(2) PPP_TERMINATE_REQ	lower_layer	PPP_LOWER_LAYER_UP
(3) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_OK_MMI
(4) IPA_CONFIG_REQ	ip	NUM_0
	peer_ip	NUM_0
	mtu	NUM_0
	cmd	IPA_CONFIG_DOWN
(5) IPA_CONFIG_CNF	ack_flag	NOT_USED
	all_down	IPA_ALLDOWN_TRUE
(6) UDPA_CONFIG_REQ		
	cmd	UDPA_CONFIG_DOWN
(7) UDPA_CONFIG_CNF		
(8) WAP_DTI_REQ	dti_conn	WAP_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	WAP_UDP_LINK_ID
	dti_direction	NUM_1
(9) IPA_DTI_REQ	dti_conn	IPA_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	UDP_IP_LINK_ID
	dti_direction	NOT_USED
(10) WAP_DTI_CNF	dti_conn	WAP_DISCONNECT_DTI
(11) IPA_DTI_CNF	dti_conn	IPA_DISCONNECT_DTI
	link_id	UDP_IP_LINK_ID
(12) UDPA_DTI_IND	link_id	WAP_UDP_LINK_ID
(13) UDPA_DTI_IND	link_id	UDP_IP_LINK_ID
(14) L2R_DEACTIVATE_REQ		
(15) MNCC_DISCONNECT_IND	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	diagnostic	NOT_PRESENT_8BIT
	progress_desc	PROG_NOT PRES
(16) SIM_SYNC_REQ	syncs	SYNC_STOP_CALL
(17) MNCC_RELEASE_CNF	ti	NOT_USED
	cause	NOT_USED
(18) L2R_DEACTIVATE_CNF		
(19) RA_DEACTIVATE_REQ		
(20) RA_DEACTIVATE_CNF		

(21)	ACI_CMD_IND	cmd_len	LM_OK
		cmd_seq	M_OK

History:

30.11.00	XOF	Initial"
06.01.03	TLU	adaptation to new IPA and UDPA SAP
21.02.03	TLU	WAP DTI handling added

3.5.6 ACIWAP045: MMI hang up phone (ATH), after L2R_DISCONNECT_REQ, peer disconnect

Description:

Preamble: ACIWAP022

Variants: <A>....

MMI	ACI	PS
(1)	ACI_CMD_REQ (cmd: ATH)	
	=====>	
(2)	PPP_TERMINATE_REQ	
	=====>	
(3)	PPP_TERMINATE_IND	
	<=====	
(4)	IPA_CONFIG_REQ	
	=====>	
(5)	IPA_CONFIG_CNF	
	<=====	
(6)	UDPA_CONFIG_REQ	
	=====>	
(7)	UDPA_CONFIG_CNF	
	<=====	
(8)	WAP_DTI_REQ	
	=====>	
(9)	IPA_DTI_REQ	
	=====>	
(10)	WAP_DTI_CNF	
	<=====	
(11)	IPA_DTI_CNF	
	<=====	
(12)	UDPA_DTI_IND	
	<=====	
(13)	UDPA_DTI_IND	
	<=====	
(14)	L2R_DEACTIVATE_REQ	
	=====>	
(15)	MNCC_DISCONNECT_IND	
	<=====	
(16)	SIM_SYNC_REQ	
	=====>	
(17)	MNCC_RELEASE_CNF	
	<=====	
(18)	L2R_DEACTIVATE_CNF	
	<=====	
(19)	RA_DEACTIVATE_REQ	
	=====>	
(20)	RA_DEACTIVATE_CNF	
	<=====	
(21)	ACI_CMD_IND (msg: OK)	
	<=====	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_H
	cmd_len	LC_PLUS_CHUP

<A>	cmd_seq	C_H
	cmd_seq	C_PLUS_CHUP
(2) PPP_TERMINATE_REQ	lower_layer	PPP_LOWER_LAYER_UP
(3) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_OK_MMI
(4) IPA_CONFIG_REQ	ip	NUM_0
	peer_ip	NUM_0
	mtu	NUM_0
	cmd	IPA_CONFIG_DOWN
(5) IPA_CONFIG_CNF	ack_flag	NOT_USED
	all_down	IPA_ALLDOWN_TRUE
(6) UDPA_CONFIG_REQ		
	cmd	UDPA_CONFIG_DOWN
(7) UDPA_CONFIG_CNF		
(8) WAP_DTI_REQ	dti_conn	WAP_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	WAP_UDP_LINK_ID
	dti_direction	NUM_1
(9) IPA_DTI_REQ	dti_conn	IPA_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	UDP_IP_LINK_ID
	dti_direction	NOT_USED
(10) WAP_DTI_CNF		
	dti_conn	WAP_DISCONNECT_DTI
(11) IPA_DTI_CNF	dti_conn	IPA_DISCONNECT_DTI
	link_id	UDP_IP_LINK_ID
(12) UDPA_DTI_IND		
	link_id	WAP_UDP_LINK_ID
(13) UDPA_DTI_IND		
	link_id	UDP_IP_LINK_ID
(14) L2R_DEACTIVATE_REQ		
(15) MNCC_DISCONNECT_IND	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	diagnostic	NOT_PRESENT_8BIT
	progress_desc	PROG_NOT_PRES
(16) SIM_SYNC_REQ	syncs	SYNC_STOP_CALL
(17) MNCC_RELEASE_CNF		
	ti	NOT_USED
	cause	NOT_USED
(18) L2R_DEACTIVATE_CNF		
(19) RA_DEACTIVATE_REQ		
(20) RA_DEACTIVATE_CNF		
(21) ACI_CMD_IND	cmd_len	LM_OK
	cmd_seq	M_OK

History: 30.11.00 XOF Initial
 06.01.03 TLU adaptation to new IPA and UDPA SAP
 21.02.03 TLU WAP DTI handling added

3.5.7 ACIWAP046: MMI hang up phone (ATH), after RA_DECTIVATE_REQ, peer disconnect

Description:

Preamble: ACIWAP022

Variants: <A>....

MMI	ACI	PS
(1)	ACI_CMD_REQ (cmd: ATH)	
	=====>	
(2)	PPP_TERMINATE_REQ	
	=====>	
(3)	PPP_TERMINATE_IND	
	<=====	
(4)	IPA_CONFIG_REQ	
	=====>	
(5)	IPA_CONFIG_CNF	
	<=====	
(6)	UDPA_CONFIG_REQ	
	=====>	
(7)	UDPA_CONFIG_CNF	
	<=====	
(8)	WAP_DTI_REQ	
	=====>	
(9)	IPA_DTI_REQ	
	=====>	
(10)	WAP_DTI_CNF	
	<=====	
(11)	IPA_DTI_CNF	
	<=====	
(12)	UDPA_DTI_IND	
	<=====	
(13)	UDPA_DTI_IND	
	<=====	
(14)	L2R_DEACTIVATE_REQ	
	=====>	
(15)	L2R_DEACTIVATE_CNF	
	<=====	
(16)	RA_DEACTIVATE_REQ	
	=====>	
(17)	MNCC_DISCONNECT_IND	
	<=====	
(18)	SIM_SYNC_REQ	
	=====>	
(19)	MNCC_RELEASE_CNF	
	<=====	
(20)	RA_DEACTIVATE_CNF	
	<=====	
(21)	ACI_CMD_IND (msg: OK)	
	<=====	

Parametrization:

Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_H
	cmd_len	LC_PLUS_CHUP

<A>	cmd_seq	C_H
	cmd_seq	C_PLUS_CHUP
(2) PPP_TERMINATE_REQ	lower_layer	PPP_LOWER_LAYER_UP
(3) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_OK_MMI
(4) IPA_CONFIG_REQ	ip	NUM_0
	peer_ip	NUM_0
	mtu	NUM_0
	cmd	IPA_CONFIG_DOWN
(5) IPA_CONFIG_CNF	ack_flag	NOT_USED
	all_down	IPA_ALLDOWN_TRUE
(6) UDPA_CONFIG_REQ		
	cmd	UDPA_CONFIG_DOWN
(7) UDPA_CONFIG_CNF		
(8) WAP_DTI_REQ	dti_conn	WAP_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	WAP_UDP_LINK_ID
	dti_direction	NUM_1
(9) IPA_DTI_REQ	dti_conn	IPA_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	UDP_IP_LINK_ID
	dti_direction	NOT_USED
(10) WAP_DTI_CNF		
	dti_conn	WAP_DISCONNECT_DTI
(11) IPA_DTI_CNF	dti_conn	IPA_DISCONNECT_DTI
	link_id	UDP_IP_LINK_ID
(12) UDPA_DTI_IND		
	link_id	WAP_UDP_LINK_ID
(13) UDPA_DTI_IND		
	link_id	UDP_IP_LINK_ID
(14) L2R_DEACTIVATE_REQ		
(15) L2R_DEACTIVATE_CNF		
(16) RA_DEACTIVATE_REQ		
(17) MNCC_DISCONNECT_IND	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	diagnostic	NOT_PRESENT_8BIT
	progress_desc	PROG_NOT_PRES
(18) SIM_SYNC_REQ	syncs	SYNC_STOP_CALL
(19) MNCC_RELEASE_CNF	ti	NOT_USED
	cause	NOT_USED
(20) RA_DEACTIVATE_CNF		
(21) ACI_CMD_IND	cmd_len	LM_OK
	cmd_seq	M_OK

History: 30.11.00 XOF Initial
 06.01.03 TLU adaptation to new IPA and UDPA SAP
 21.02.03 TLU WAP DTI handling added

3.5.8 ACIWAP047: MMI hang up phone (ATH), after IPA_DTI_REQ (DISCONNECT), L2R_ERROR_IND

Description:

Preamble: ACIWAP022

Variants: <A>....

MMI	ACI	PS
(1)	ACI_CMD_REQ (cmd: ATH)	
	=====>	
(2)	PPP_TERMINATE_REQ	
	=====>	
(3)	PPP_TERMINATE_IND	
	<=====	
(4)	IPA_CONFIG_REQ	
	=====>	
(5)	IPA_CONFIG_CNF	
	<=====	
(6)	UDPA_CONFIG_REQ	
	=====>	
(7)	UDPA_CONFIG_CNF	
	<=====	
(8)	WAP_DTI_REQ	
	=====>	
(9)	IPA_DTI_REQ	
	=====>	
(10)	WAP_DTI_CNF	
	<=====	
(11)	IPA_DTI_CNF	
	<=====	
(12)	L2R_ERROR_IND	
	<=====	
(13)	UDPA_DTI_IND	
	<=====	
(14)	UDPA_DTI_IND	
	<=====	
(15)	L2R_DEACTIVATE_REQ	
	=====>	
(16)	L2R_DEACTIVATE_CNF	
	<=====	
(17)	RA_DEACTIVATE_REQ	
	=====>	
(18)	MNCC_DISCONNECT_IND	
	<=====	
(19)	SIM_SYNC_REQ	
	=====>	
(20)	RA_DEACTIVATE_CNF	
	<=====	
TIMEOUT (5000)		
(21)	MNCC_RELEASE_CNF	
	<=====	
(22)	ACI_CMD_IND (msg: OK)	
	<=====	

Parametrization:

Primitive	Parameter	Value
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(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
<A>	cmd_len	LC_H
	cmd_len	LC_PLUS_CHUP
<A>	cmd_seq	C_H
	cmd_seq	C_PLUS_CHUP
(2) PPP_TERMINATE_REQ	lower_layer	PPP_LOWER_LAYER_UP
(3) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_OK_MMI
(4) IPA_CONFIG_REQ	ip	NUM_0
	peer_ip	NUM_0
	mtu	NUM_0
	cmd	IPA_CONFIG_DOWN
(5) IPA_CONFIG_CNF	ack_flag	NOT_USED
	all_down	IPA_ALLDOWN_TRUE
(6) UDPA_CONFIG_REQ		
	cmd	UDPA_CONFIG_DOWN
(7) UDPA_CONFIG_CNF		
(8) WAP_DTI_REQ	dti_conn	WAP_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	WAP_UDP_LINK_ID
	dti_direction	NUM_1
(9) IPA_DTI_REQ	dti_conn	IPA_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	UDP_IP_LINK_ID
	dti_direction	NOT_USED
(10) WAP_DTI_CNF	dti_conn	WAP_DISCONNECT_DTI
(11) IPA_DTI_CNF	dti_conn	IPA_DISCONNECT_DTI
	link_id	UDP_IP_LINK_ID
(12) L2R_ERROR_IND	cause	CAUSE_DUMMY
(13) UDPA_DTI_IND	link_id	WAP_UDP_LINK_ID
(14) UDPA_DTI_IND	link_id	UDP_IP_LINK_ID
(15) L2R_DEACTIVATE_REQ		
(16) L2R_DEACTIVATE_CNF		
(17) RA_DEACTIVATE_REQ		
(18) MNCC_DISCONNECT_IND	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	diagnostic	NOT_PRESENT_8BIT
	progress_desc	PROG_NOT_PRES
(19) SIM_SYNC_REQ	syncss	SYNC_STOP_CALL
(20) RA_DEACTIVATE_CNF		

(21)	MNCC_RELEASE_CNF	ti	NOT_USED
		cause	NOT_USED
(22)	ACI_CMD_IND	cmd_len	LM_OK
		cmd_seq	M_OK

History:	30.11.00	XOF	Initial
	06.01.03	TLU	adaptation to new IPA and UDPA SAP
	21.02.03	TLU	WAP DTI handling added

3.6 PPP disconnect (ACIWAP060 – ACI0XX)

3.6.1 ACIWAP060: PPP disconnect normal

Description: Hang up from PPP

Preamble: ACIWAP022

APL	ACI	PS
(1)	PPP_TERMINATE_IND	
(2)	IPA_CONFIG_REQ	
(3)	IPA_CONFIG_CNF	
(4)	UDPA_CONFIG_REQ	
(5)	UDPA_CONFIG_CNF	
(6)	WAP_DTI_REQ	
(7)	IPA_DTI_REQ	
(8)	WAP_DTI_CNF	
(9)	IPA_DTI_CNF	
(10)	UDPA_DTI_IND	
(11)	UDPA_DTI_IND	
(12)	L2R_DEACTIVATE_REQ	
(13)	L2R_DEACTIVATE_CNF	
(14)	RA_DEACTIVATE_REQ	
(15)	RA_DEACTIVATE_CNF	
(16)	SIM_SYNC_REQ	
(17)	MNCC_DISCONNECT_REQ	
(18)	MNCC_RELEASE_IND	
(19)	ACI_CMD_IND (msg: NO CARRIER)	

Parametrization:

Primitive	Parameter	Value
(1) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_NO_CHANNEL
(2) IPA_CONFIG_REQ	ip	NUM_0
	peer_ip	NUM_0
	mtu	NUM_0
	cmd	IPA_CONFIG_DOWN

(3)	IPA_CONFIG_CNF	ack_flag all_down	NOT_USED IPA_ALLDOWN_TRUE
(4)	UDPA_CONFIG_REQ	cmd	UDPA_CONFIG_DOWN
(5)	UDPA_CONFIG_CNF		
(6)	WAP_DTI_REQ	dti_conn entity_name link_id dti_direction	WAP_DISCONNECT_DTI NOT_USED WAP_UDP_LINK_ID NUM_1
(7)	IPA_DTI_REQ	dti_conn entity_name link_id dti_direction	IPA_DISCONNECT_DTI NOT_USED UDP_IP_LINK_ID NOT_USED
(8)	WAP_DTI_CNF	dti_conn	WAP_DISCONNECT_DTI
(9)	IPA_DTI_CNF	dti_conn link_id	IPA_DISCONNECT_DTI UDP_IP_LINK_ID
(10)	UDPA_DTI_IND	link_id	WAP_UDP_LINK_ID
(11)	UDPA_DTI_IND	link_id	UDP_IP_LINK_ID
(12)	L2R_DEACTIVATE_REQ		
(13)	L2R_DEACTIVATE_CNF		
(14)	RA_DEACTIVATE_REQ		
(15)	RA_DEACTIVATE_CNF		
(16)	SIM_SYNC_REQ	synccs	SYNC_STOP_CALL
(17)	MNCC_DISCONNECT_REQ	ti cause fac_inf ss_version	NUM_0 MNCC_CAUSE_CALL_CLEAR NOT_USED NOT_USED
(18)	MNCC_RELEASE_IND	ti cause	NUM_0 MNCC_CAUSE_CALL_CLEAR
(19)	ACI_CMD_IND	cmd_len cmd_seq	LM_NO_CARRIER M_NO_CARRIER

History: 15.09.00 Clb Initial
 06.01.03 TLU adaptation to new IPA and UDPA SAP
 21.02.03 TLU WAP DTI handling added

3.6.2 ACIWAP061: PPP disconnect, peer disconnect after IPA_CONFIG_REQ

Description:

Preamble: ACIWAP022

Variants: <A>....

MMI	ACI	PS
(1)	PPP_TERMINATE_IND	
(2)	IPA_CONFIG_REQ	
(3)	MNCC_DISCONNECT_IND	
(4)	SIM_SYNC_REQ	
(5)	MNCC_RELEASE_CNF	
(6)	IPA_CONFIG_CNF	
(7)	UDPA_CONFIG_REQ	
(8)	UDPA_CONFIG_CNF	
(9)	WAP_DTI_REQ	
(10)	IPA_DTI_REQ	
(11)	WAP_DTI_CNF	
(12)	IPA_DTI_CNF	
(13)	UDPA_DTI_IND	
(14)	UDPA_DTI_IND	
(15)	L2R_DEACTIVATE_REQ	
(16)	L2R_DEACTIVATE_CNF	
(17)	RA_DEACTIVATE_REQ	
(18)	RA_DEACTIVATE_CNF	
(19)	ACI_CMD_IND (msg: OK)	

Parametrization:

Primitive	Parameter	Value
(1) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_OK_PEER

(2) IPA_CONFIG_REQ	ip peer_ip mtu cmd	NUM_0 NUM_0 NUM_0 IPA_CONFIG_DOWN
(3) MNCC_DISCONNECT_IND	ti cause diagnostic progress_desc	NUM_0 MNCC_CAUSE_CALL_CLEAR NOT_PRESENT_8BIT PROG_NOT_PRES
(4) SIM_SYNC_REQ	syncs	SYNC_STOP_CALL
(5) MNCC_RELEASE_CNF	ti cause	NOT_USED NOT_USED
(6) IPA_CONFIG_CNF	ack_flag all_down	NOT_USED IPA_ALLDOWN_TRUE
(7) UDPA_CONFIG_REQ	cmd	UDPA_CONFIG_DOWN
(8) UDPA_CONFIG_CNF		
(9) WAP_DTI_REQ	dti_conn entity_name link_id dti_direction	WAP_DISCONNECT_DTI NOT_USED WAP_UDP_LINK_ID NUM_1
(10) IPA_DTI_REQ	dti_conn entity_name link_id dti_direction	IPA_DISCONNECT_DTI NOT_USED UDP_IP_LINK_ID NOT_USED
(11) WAP_DTI_CNF	dti_conn	WAP_DISCONNECT_DTI
(12) IPA_DTI_CNF	dti_conn link_id	IPA_DISCONNECT_DTI UDP_IP_LINK_ID
(13) UDPA_DTI_IND	link_id	WAP_UDP_LINK_ID
(14) UDPA_DTI_IND	link_id	UDP_IP_LINK_ID
(15) L2R_DEACTIVATE_REQ		
(16) L2R_DEACTIVATE_CNF		
(17) RA_DEACTIVATE_REQ		
(18) RA_DEACTIVATE_CNF		
(19) ACI_CMD_IND	cmd_len cmd_seq	LM_NO_CARRIER M_NO_CARRIER

History: 30.11.00 XOF Initial
 06.01.03 TLU adaptation to new IPA and UDPA SAP
 21.02.03 TLU WAP DTI handling added

3.6.3 ACIWAP062: PPP disconnect, peer disconnect before IPA_DTI_CNF (DISCONNECT)

Description:

Preamble: ACIWAP022

Variants: <A>....

MMI	ACI	PS
(1)	PPP_TERMINATE_IND	
(2)	IPA_CONFIG_REQ	
(3)	IPA_CONFIG_CNF	
(4)	UDPA_CONFIG_REQ	
(5)	UDPA_CONFIG_CNF	
(6)	WAP_DTI_REQ	
(7)	IPA_DTI_REQ	
(8)	MNCC_DISCONNECT_IND	
(9)	SIM_SYNC_REQ	
(10)	MNCC_RELEASE_CNF	
(11)	WAP_DTI_CNF	
(12)	IPA_DTI_CNF	
(13)	UDPA_DTI_IND	
(14)	UDPA_DTI_IND	
(15)	L2R_DEACTIVATE_REQ	
(16)	L2R_DEACTIVATE_CNF	
(17)	RA_DEACTIVATE_REQ	
(18)	RA_DEACTIVATE_CNF	
(19)	ACI_CMD_IND (msg: OK)	
	* <=====*	

Parametrization:

Primitive	Parameter	Value
(1) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_NO_CHANNEL
(2) IPA_CONFIG_REQ	ip	NUM_0
	peer_ip	NUM_0
	mtu	NUM_0
	cmd	IPA_CONFIG_DOWN
(3) IPA_CONFIG_CNF	ack_flag	NOT_USED
	all_down	IPA_ALLDOWN_TRUE
(4) UDPA_CONFIG_REQ	cmd	UDPA_CONFIG_DOWN
(5) UDPA_CONFIG_CNF		
(6) WAP_DTI_REQ	dti_conn	WAP_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	WAP_UDP_LINK_ID
	dti_direction	NUM_1
(7) IPA_DTI_REQ	dti_conn	IPA_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	UDP_IP_LINK_ID
	dti_direction	NOT_USED
(8) MNCC_DISCONNECT_IND	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	diagnostic	NOT_PRESENT_8BIT
	progress_desc	PROG_NOT_PRES
(9) SIM_SYNC_REQ	synccs	SYNC_STOP_CALL
(10) MNCC_RELEASE_CNF	ti	NOT_USED
	cause	NOT_USED
(11) WAP_DTI_CNF	dti_conn	WAP_DISCONNECT_DTI
(12) IPA_DTI_CNF	dti_conn	IPA_DISCONNECT_DTI
	link_id	UDP_IP_LINK_ID
(13) UDPA_DTI_IND	link_id	WAP_UDP_LINK_ID
(14) UDPA_DTI_IND	link_id	UDP_IP_LINK_ID
(15) L2R_DEACTIVATE_REQ		
(16) L2R_DEACTIVATE_CNF		
(17) RA_DEACTIVATE_REQ		
(18) RA_DEACTIVATE_CNF		
(19) ACI_CMD_IND	cmd_len	LM_NO_CARRIER
	cmd_seq	M_NO_CARRIER

History: 30.11.00 XOF Initial
 06.01.03 TLU adaptation to new IPA and UDPA SAP
 21.02.03 TLU WAP DTI handling added

3.6.4 ACIWAP063: PPP disconnect, peer disconnect after IPA_DTI_REQ (DISCONNECT)

Description:

Preamble: ACIWAP022

Variants: <A>....

MMI	ACI	PS
(1)	PPP_TERMINATE_IND	
(2)	IPA_CONFIG_REQ	
(3)	IPA_CONFIG_CNF	
(4)	UDPA_CONFIG_REQ	
(5)	UDPA_CONFIG_CNF	
(6)	WAP_DTI_REQ	
(7)	IPA_DTI_REQ	
(8)	WAP_DTI_CNF	
(9)	IPA_DTI_CNF	
(10)	MNCC_DISCONNECT_IND	
(11)	SIM_SYNC_REQ	
(12)	MNCC_RELEASE_CNF	
(13)	UDPA_DTI_IND	
(14)	UDPA_DTI_IND	
(15)	L2R_DEACTIVATE_REQ	
(16)	L2R_DEACTIVATE_CNF	
(17)	RA_DEACTIVATE_REQ	
(18)	RA_DEACTIVATE_CNF	
(19)	ACI_CMD_IND (msg: OK)	
	* <=====*	

Parametrization:

Primitive	Parameter	Value
(1) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_NO_CHANNEL
(2) IPA_CONFIG_REQ	ip	NUM_0
	peer_ip	NUM_0
	mtu	NUM_0
	cmd	IPA_CONFIG_DOWN
(3) IPA_CONFIG_CNF	ack_flag	NOT_USED
	all_down	IPA_ALLDOWN_TRUE
(4) UDPA_CONFIG_REQ	cmd	UDPA_CONFIG_DOWN
(5) UDPA_CONFIG_CNF		
(6) WAP_DTI_REQ	dti_conn	WAP_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	WAP_UDP_LINK_ID
	dti_direction	NUM_1
(7) IPA_DTI_REQ	dti_conn	IPA_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	UDP_IP_LINK_ID
	dti_direction	NOT_USED
(8) WAP_DTI_CNF	dti_conn	WAP_DISCONNECT_DTI
(9) IPA_DTI_CNF	dti_conn	IPA_DISCONNECT_DTI
	link_id	UDP_IP_LINK_ID
(10) MNCC_DISCONNECT_IND	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	diagnostic	NOT_PRESENT_8BIT
	progress_desc	PROG_NOT_PRES
(11) SIM_SYNC_REQ	synccs	SYNC_STOP_CALL
(12) MNCC_RELEASE_CNF	ti	NOT_USED
	cause	NOT_USED
(13) UDPA_DTI_IND	link_id	WAP_UDP_LINK_ID
(14) UDPA_DTI_IND	link_id	UDP_IP_LINK_ID
(15) L2R_DEACTIVATE_REQ		
(16) L2R_DEACTIVATE_CNF		
(17) RA_DEACTIVATE_REQ		
(18) RA_DEACTIVATE_CNF		

(19) ACI_CMD_IND	cmd_len	LM_NO_CARRIER
	cmd_seq	M_NO_CARRIER

History:

30.11.00 XOF	Initial
06.01.03 TLU	adaptation to new IPA and UDPA SAP
21.02.03 TLU	WAP DTI handling added

3.6.5 ACIWAP064: PPP disconnect, peer disconnect after L2R_DEACTIVATE_REQ

Description:

Preamble: ACIWAP022

Variants: <A>....

MMI	ACI	PS
(1)	PPP_TERMINATE_IND	
(2)	IPA_CONFIG_REQ	
(3)	IPA_CONFIG_CNF	
(4)	UDPA_CONFIG_REQ	
(5)	UDPA_CONFIG_CNF	
(6)	WAP_DTI_REQ	
(7)	IPA_DTI_REQ	
(8)	WAP_DTI_CNF	
(9)	IPA_DTI_CNF	
(10)	UDPA_DTI_IND	
(11)	UDPA_DTI_IND	
(12)	L2R_DEACTIVATE_REQ	
(13)	MNCC_DISCONNECT_IND	
(14)	SIM_SYNC_REQ	
(15)	L2R_DEACTIVATE_CNF	
(16)	RA_DEACTIVATE_REQ	
(17)	RA_DEACTIVATE_CNF	
(18)	MNCC_RELEASE_CNF	
(19)	ACI_CMD_IND (msg: OK)	
	* <=====*	

Parametrization:

Primitive	Parameter	Value
(1) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_NO_CHANNEL
(2) IPA_CONFIG_REQ	ip	NUM_0
	peer_ip	NUM_0
	mtu	NUM_0
	cmd	IPA_CONFIG_DOWN
(3) IPA_CONFIG_CNF	ack_flag	NOT_USED
	all_down	IPA_ALLDOWN_TRUE

(4) UDPA_CONFIG_REQ	cmd	UDPA_CONFIG_DOWN
(5) UDPA_CONFIG_CNF		
(6) WAP_DTI_REQ	dti_conn entity_name link_id dti_direction	WAP_DISCONNECT_DTI NOT_USED WAP_UDP_LINK_ID NUM_1
(7) IPA_DTI_REQ	dti_conn entity_name link_id dti_direction	IPA_DISCONNECT_DTI NOT_USED UDP_IP_LINK_ID NOT_USED
(8) WAP_DTI_CNF	dti_conn	WAP_DISCONNECT_DTI
(9) IPA_DTI_CNF	dti_conn link_id	IPA_DISCONNECT_DTI UDP_IP_LINK_ID
(10) UDPA_DTI_IND	link_id	WAP_UDP_LINK_ID
(11) UDPA_DTI_IND	link_id	UDP_IP_LINK_ID
(12) L2R_DEACTIVATE_REQ		
(13) MNCC_DISCONNECT_IND	ti cause diagnostic progress_desc	NUM_0 MNCC_CAUSE_CALL_CLEAR NOT_PRESENT_8BIT PROG_NOT_PRES
(14) SIM_SYNC_REQ	syncs	SYNC_STOP_CALL
(15) L2R_DEACTIVATE_CNF		
(16) RA_DEACTIVATE_REQ		
(17) RA_DEACTIVATE_CNF		
(18) MNCC_RELEASE_CNF	ti cause	NOT_USED NOT_USED
(19) ACI_CMD_IND	cmd_len cmd_seq	LM_NO_CARRIER M_NO_CARRIER

History: 30.11.00 XOF Initial
06.01.03 TLU adaptation to new IPA and UDPA SAP
21.02.03 TLU WAP DTI handling added

3.6.6 ACIWAP065: PPP disconnect, peer disconnect after RA_DEACTIVATE_REQ

Description:

Preamble: ACIWAP022

Variants: <A>....

MMI	ACI	PS
(1)	PPP_TERMINATE_IND	
(2)	IPA_CONFIG_REQ	
(3)	IPA_CONFIG_CNF	
(4)	UDPA_CONFIG_REQ	
(5)	UDPA_CONFIG_CNF	
(6)	WAP_DTI_REQ	
(7)	IPA_DTI_REQ	
(8)	WAP_DTI_CNF	
(9)	IPA_DTI_CNF	
(10)	UDPA_DTI_IND	
(11)	UDPA_DTI_IND	
(12)	L2R_DEACTIVATE_REQ	
(13)	L2R_DEACTIVATE_CNF	
(14)	RA_DEACTIVATE_REQ	
(15)	MNCC_DISCONNECT_IND	
(16)	SIM_SYNC_REQ	
(17)	MNCC_RELEASE_CNF	
(18)	RA_DEACTIVATE_CNF	
(19)	ACI_CMD_IND (msg: OK)	
	* <=====*	

Parametrization:

Primitive	Parameter	Value
(1) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_NO_CHANNEL
(2) IPA_CONFIG_REQ	ip	NUM_0
	peer_ip	NUM_0
	mtu	NUM_0
	cmd	IPA_CONFIG_DOWN
(3) IPA_CONFIG_CNF	ack_flag	NOT_USED
	all_down	IPA_ALLDOWN_TRUE

(4) UDPA_CONFIG_REQ	cmd	UDPA_CONFIG_DOWN
(5) UDPA_CONFIG_CNF		
(6) WAP_DTI_REQ	dti_conn entity_name link_id dti_direction	WAP_DISCONNECT_DTI NOT_USED WAP_UDP_LINK_ID NUM_1
(7) IPA_DTI_REQ	dti_conn entity_name link_id dti_direction	IPA_DISCONNECT_DTI NOT_USED UDP_IP_LINK_ID NOT_USED
(8) WAP_DTI_CNF	dti_conn	WAP_DISCONNECT_DTI
(9) IPA_DTI_CNF	dti_conn link_id	IPA_DISCONNECT_DTI UDP_IP_LINK_ID
(10) UDPA_DTI_IND	link_id	WAP_UDP_LINK_ID
(11) UDPA_DTI_IND	link_id	UDP_IP_LINK_ID
(12) L2R_DEACTIVATE_REQ		
(13) L2R_DEACTIVATE_CNF		
(14) RA_DEACTIVATE_REQ		
(15) MNCC_DISCONNECT_IND	ti cause diagnostic progress_desc	NUM_0 MNCC_CAUSE_CALL_CLEAR NOT_PRESENT_8BIT PROG_NOT_PRES
(16) SIM_SYNC_REQ	syncs	SYNC_STOP_CALL
(17) MNCC_RELEASE_CNF	ti cause	NOT_USED NOT_USED
(18) RA_DEACTIVATE_CNF		
(19) ACI_CMD_IND	cmd_len cmd_seq	LM_NO_CARRIER M_NO_CARRIER

History: 30.11.00 XOF Initial
06.01.03 TLU adaptation to new IPA and UDPA SAP
21.02.03 TLU WAP DTI handling added

3.6.7 ACIWAP066: PPP disconnect, L2R disconnect before IPA_DTI_CNF (DISCONNECT)

Description:

Preamble: ACIWAP022

Variants: <A>....

MMI	ACI	PS
(1)	PPP_TERMINATE_IND	
(2)	IPA_CONFIG_REQ	
(3)	IPA_CONFIG_CNF	
(4)	UDPA_CONFIG_REQ	
(5)	UDPA_CONFIG_CNF	
(6)	WAP_DTI_REQ	
(7)	IPA_DTI_REQ	
(8)	L2R_DISC_IND	
(9)	WAP_DTI_CNF	
(10)	IPA_DTI_CNF	
(11)	UDPA_DTI_IND	
(12)	UDPA_DTI_IND	
(13)	L2R_DEACTIVATE_REQ	
(14)	L2R_DEACTIVATE_CNF	
(15)	RA_DEACTIVATE_REQ	
(16)	MNCC_DISCONNECT_IND	
(17)	SIM_SYNC_REQ	
(18)	MNCC_RELEASE_CNF	
(19)	RA_DEACTIVATE_CNF	
(20)	ACI_CMD_IND (msg: OK)	
	* <=====*	

Parametrization:

Primitive	Parameter	Value
(1) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_NO_CHANNEL
(2) IPA_CONFIG_REQ	ip	NUM_0
	peer_ip	NUM_0
	mtu	NUM_0
	cmd	IPA_CONFIG_DOWN

(3)	IPA_CONFIG_CNF	ack_flag all_down	NOT_USED IPA_ALLDOWN_TRUE
(4)	UDPA_CONFIG_REQ	cmd	UDPA_CONFIG_DOWN
(5)	UDPA_CONFIG_CNF		
(6)	WAP_DTI_REQ	dti_conn entity_name link_id dti_direction	WAP_DISCONNECT_DTI NOT_USED WAP_UDP_LINK_ID NUM_1
(7)	IPA_DTI_REQ	dti_conn entity_name link_id dti_direction	IPA_DISCONNECT_DTI NOT_USED UDP_IP_LINK_ID NOT_USED
(8)	L2R_DISC_IND		
(9)	WAP_DTI_CNF	dti_conn	WAP_DISCONNECT_DTI
(10)	IPA_DTI_CNF	dti_conn link_id	IPA_DISCONNECT_DTI UDP_IP_LINK_ID
(11)	UDPA_DTI_IND	link_id	WAP_UDP_LINK_ID
(12)	UDPA_DTI_IND	link_id	UDP_IP_LINK_ID
(13)	L2R_DEACTIVATE_REQ		
(14)	L2R_DEACTIVATE_CNF		
(15)	RA_DEACTIVATE_REQ		
(16)	MNCC_DISCONNECT_IND	ti cause diagnostic progress_desc	NUM_0 MNCC_CAUSE_CALL_CLEAR NOT_PRESENT_8BIT PROG_NOT_PRES
(17)	SIM_SYNC_REQ	syncss	SYNC_STOP_CALL
(18)	MNCC_RELEASE_CNF	ti cause	NOT_USED NOT_USED
(19)	RA_DEACTIVATE_CNF		
(20)	ACI_CMD_IND	cmd_len cmd_seq	LM_NO_CARRIER M_NO_CARRIER

History: 30.11.00 XOF Initial
 06.01.03 TLU adaptation to new IPA and UDPA SAP
 21.02.03 TLU WAP DTI handling added

3.6.8 ACIWAP067: PPP disconnect, receive UDPA_DTI_IND before IPA_DTI_CNF (DISCONNECT)

Description: Receive UDPA_DTI_IND before IPA_DTI_CNF

Preamble: ACIWAP022

Variants: <A>....

MMI	ACI	PS
(1)	PPP_TERMINATE_IND	
(2)	IPA_CONFIG_REQ	
(3)	IPA_CONFIG_CNF	
(4)	UDPA_CONFIG_REQ	
(5)	UDPA_CONFIG_CNF	
(6)	WAP_DTI_REQ	
(7)	IPA_DTI_REQ	
(8)	UDPA_DTI_IND	
(9)	UDPA_DTI_IND	
(10)	L2R_DISC_IND	
(11)	WAP_DTI_CNF	
(12)	IPA_DTI_CNF	
(13)	L2R_DEACTIVATE_REQ	
(14)	L2R_DEACTIVATE_CNF	
(15)	RA_DEACTIVATE_REQ	
(16)	MNCC_DISCONNECT_IND	
(17)	SIM_SYNC_REQ	
(18)	MNCC_RELEASE_CNF	
(19)	RA_DEACTIVATE_CNF	
(20)	ACI_CMD_IND (msg: OK)	
	* <=====*	

Parametrization:

Primitive	Parameter	Value
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(1) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_NO_CHANNEL
(2) IPA_CONFIG_REQ	ip	NUM_0
	peer_ip	NUM_0
	mtu	NUM_0
	cmd	IPA_CONFIG_DOWN
(3) IPA_CONFIG_CNF	ack_flag	NOT_USED
	all_down	IPA_ALLDOWN_TRUE
(4) UDPA_CONFIG_REQ		
	cmd	UDPA_CONFIG_DOWN
(5) UDPA_CONFIG_CNF		
(6) WAP_DTI_REQ	dti_conn	WAP_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	WAP_UDP_LINK_ID
	dti_direction	NUM_1
(7) IPA_DTI_REQ	dti_conn	IPA_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	UDP_IP_LINK_ID
	dti_direction	NOT_USED
(8) UDPA_DTI_IND		
	link_id	WAP_UDP_LINK_ID
(9) UDPA_DTI_IND		
	link_id	UDP_IP_LINK_ID
(10) L2R_DISC_IND		
(11) WAP_DTI_CNF		
	dti_conn	WAP_DISCONNECT_DTI
(12) IPA_DTI_CNF		
	dti_conn	IPA_DISCONNECT_DTI
	link_id	UDP_IP_LINK_ID
(13) L2R_DEACTIVATE_REQ		
(14) L2R_DEACTIVATE_CNF		
(15) RA_DEACTIVATE_REQ		
(16) MNCC_DISCONNECT_IND	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	diagnostic	NOT_PRESENT_8BIT
	progress_desc	PROG_NOT_PRES
(17) SIM_SYNC_REQ	synccs	SYNC_STOP_CALL
(18) MNCC_RELEASE_CNF		
	ti	NOT_USED
	cause	NOT_USED
(19) RA_DEACTIVATE_CNF		
(20) ACI_CMD_IND		
	cmd_len	LM_NO_CARRIER
	cmd_seq	M_NO_CARRIER

History: 30.11.00 XOF Initial

06.01.03 TLU adaptation to new IPA and UDPA SAP
24.02.03 TLU WAP DTI handling added

3.6.9 ACIWAP068: PPP disconnect, L2R send an error indication and disconnect, receive UDPA_DTI_IND before IPA_DTI_CNF (DISCONNECT)

Description:

Preamble: ACIWAP022

Variants: <A>....

MMI	ACI	PS
(1)	PPP_TERMINATE_IND	
(2)	IPA_CONFIG_REQ	
(3)	L2R_ERROR_IND	
(4)	IPA_CONFIG_CNF	
(5)	UDPA_CONFIG_REQ	
(6)	UDPA_CONFIG_CNF	
(7)	WAP_DTI_REQ	
(8)	IPA_DTI_REQ	
(9)	L2R_DISC_IND	
(10)	UDPA_DTI_IND	
(11)	UDPA_DTI_IND	
(12)	MNCC_DISCONNECT_IND	
(13)	SIM_SYNC_REQ	
(14)	MNCC_RELEASE_CNF	
(15)	WAP_DTI_CNF	
(16)	IPA_DTI_CNF	
(17)	L2R_DEACTIVATE_REQ	
(18)	L2R_DEACTIVATE_CNF	
(19)	RA_DEACTIVATE_REQ	
(20)	RA_DEACTIVATE_CNF	
(21)	ACI_CMD_IND (msg: OK)	
	* <=====*	

Parametrization:

Primitive	Parameter	Value
(1) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_NO_CHANNEL
(2) IPA_CONFIG_REQ	ip	NUM_0
	peer_ip	NUM_0
	mtu	NUM_0
	cmd	IPA_CONFIG_DOWN

(3) L2R_ERROR_IND	cause	CAUSE_DUMMY
(4) IPA_CONFIG_CNF	ack_flag all_down	NOT_USED IPA_ALLDOWN_TRUE
(5) UDPA_CONFIG_REQ	cmd	UDPA_CONFIG_DOWN
(6) UDPA_CONFIG_CNF		
(7) WAP_DTI_REQ	dti_conn entity_name link_id dti_direction	WAP_DISCONNECT_DTI NOT_USED WAP_UDP_LINK_ID NUM_1
(8) IPA_DTI_REQ	dti_conn entity_name link_id dti_direction	IPA_DISCONNECT_DTI NOT_USED UDP_IP_LINK_ID NOT_USED
(9) L2R_DISC_IND		
(10) UDPA_DTI_IND	link_id	WAP_UDP_LINK_ID
(11) UDPA_DTI_IND	link_id	UDP_IP_LINK_ID
(12) MNCC_DISCONNECT_IND	ti cause diagnostic progress_desc	NUM_0 MNCC_CAUSE_CALL_CLEAR NOT_PRESENT_8BIT PROG_NOT_PRES
(13) SIM_SYNC_REQ	syncs	SYNC_STOP_CALL
(14) MNCC_RELEASE_CNF	ti cause	NOT_USED NOT_USED
(15) WAP_DTI_CNF	dti_conn	WAP_DISCONNECT_DTI
(16) IPA_DTI_CNF	dti_conn link_id	IPA_DISCONNECT_DTI UDP_IP_LINK_ID
(17) L2R_DEACTIVATE_REQ		
(18) L2R_DEACTIVATE_CNF		
(19) RA_DEACTIVATE_REQ		
(20) RA_DEACTIVATE_CNF		
(21) ACI_CMD_IND	cmd_len cmd_seq	LM_NO_CARRIER M_NO_CARRIER

History: 30.11.00 XOF Initial
 06.01.03 TLU adaptation to new IPA and UDPA SAP
 24.02.03 TLU WAP DTI handling added

3.7 L2R disconnect (ACIWAP080 - ACIWAP0XX)

3.7.1 ACIWAP080: L2R disconnect

Description: Hang up from L2R

Preamble: ACIWAP022

APL	ACI	PS
(1)	L2R_DISC_IND	
	* <===== *	
(2)	PPP_TERMINATE_REQ	
	* =====> *	
(3)	PPP_TERMINATE_IND	
	* <===== *	
(4)	IPA_CONFIG_REQ	
	* =====> *	
(5)	IPA_CONFIG_CNF	
	* <===== *	
(6)	UDPA_CONFIG_REQ	
	* =====> *	
(7)	UDPA_CONFIG_CNF	
	* <===== *	
(8)	WAP_DTI_REQ	
	* =====> *	
(9)	IPA_DTI_REQ	
	* =====> *	
(10)	WAP_DTI_CNF	
	* <===== *	
(11)	IPA_DTI_CNF	
	* <===== *	
(12)	UDPA_DTI_IND	
	* <===== *	
(13)	UDPA_DTI_IND	
	* <===== *	
(14)	L2R_DEACTIVATE_REQ	
	* =====> *	
(15)	L2R_DEACTIVATE_CNF	
	* <===== *	
(16)	RA_DEACTIVATE_REQ	
	* =====> *	
(17)	MNCC_DISCONNECT_IND	
	* <===== *	
(18)	SIM_SYNC_REQ	
	* =====> *	
(19)	MNCC_RELEASE_CNF	
	* <===== *	
(20)	RA_DEACTIVATE_CNF	
	* <===== *	
(21)	ACI_CMD_IND	
	(msg: NO CARRIER)	
	* <===== *	

Parametrization:

Primitive	Parameter	Value
(1) L2R_DISC_IND		
(2) PPP_TERMINATE_REQ	lower_layer	PPP_LOWER_LAYER_DOWN
(3) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_NO_CHANNEL
(4) IPA_CONFIG_REQ	ip	NUM_0
	peer_ip	NUM_0
	mtu	NUM_0
	cmd	IPA_CONFIG_DOWN
(5) IPA_CONFIG_CNF	ack_flag	NOT_USED
	all_down	IPA_ALLDOWN_TRUE
(6) UDPA_CONFIG_REQ		
	cmd	UDPA_CONFIG_DOWN
(7) UDPA_CONFIG_CNF		
(8) WAP_DTI_REQ	dti_conn	WAP_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	WAP_UDP_LINK_ID
	dti_direction	NUM_1
(9) IPA_DTI_REQ	dti_conn	IPA_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	UDP_IP_LINK_ID
	dti_direction	NOT_USED
(10) WAP_DTI_CNF	dti_conn	WAP_DISCONNECT_DTI
(11) IPA_DTI_CNF	dti_conn	IPA_DISCONNECT_DTI
	link_id	UDP_IP_LINK_ID
(12) UDPA_DTI_IND	link_id	WAP_UDP_LINK_ID
(13) UDPA_DTI_IND	link_id	UDP_IP_LINK_ID
(14) L2R_DEACTIVATE_REQ		
(15) L2R_DEACTIVATE_CNF		
(16) RA_DEACTIVATE_REQ		
(17) MNCC_DISCONNECT_IND	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	diagnostic	NOT_PRESENT_8BIT
	progress_desc	PROG_NOT_PRES
(18) SIM_SYNC_REQ	syncs	SYNC_STOP_CALL

(19)	MNCC_RELEASE_CNF	ti	NOT_USED
		cause	NOT_USED
(20)	RA_DEACTIVATE_CNF		
(21)	ACI_CMD_IND	cmd_len	LM_NO_CARRIER
		cmd_seq	M_NO_CARRIER
History:	06.12.00	xof	Initial
	06.01.03	TLU	adaptation to new IPA and UDPA SAP
	24.02.03	TLU	WAP DTI handling added

3.7.2 ACIWAP081: L2R receives L2R_ERROR_IND and disconnect

Description:

Preamble: ACIWAP024

APL	ACI	PS
(1)	L2R_ERROR_IND	
	* <===== *	
(2)	PPP_TERMINATE_REQ	
	* =====> *	
(3)	PPP_TERMINATE_IND	
	* <===== *	
(4)	WAP_DTI_REQ	
	* =====> *	
(5)	IPA_DTI_REQ	
	* =====> *	
(6)	WAP_DTI_CNF	
	* <===== *	
(7)	IPA_DTI_CNF	
	* <===== *	
(8)	UDPA_DTI_IND	
	* <===== *	
(9)	UDPA_DTI_IND	
	* <===== *	
(10)	L2R_DEACTIVATE_REQ	
	* =====> *	
(11)	L2R_DEACTIVATE_CNF	
	* <===== *	
(12)	RA_DEACTIVATE_REQ	
	* =====> *	
(13)	RA_DEACTIVATE_CNF	
	* <===== *	
(14)	SIM_SYNC_REQ	
	* =====> *	
(15)	MNCC_DISCONNECT_REQ	
	* =====> *	
(16)	MNCC_RELEASE_IND	
	* <===== *	
(17)	ACI_CMD_IND	
	(msg: NO CARRIER)	
	* <===== *	

Parametrization:

Primitive	Parameter	Value
(1) L2R_ERROR_IND	cause	CAUSE_DUMMY
(2) PPP_TERMINATE_REQ	lower_layer	PPP_LOWER_LAYER_DOWN
(3) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_NO_CHANNEL
(4) WAP_DTI_REQ	dti_conn	WAP_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	WAP_UDP_LINK_ID
	dti_direction	NUM_1

(5) IPA_DTI_REQ	dti_conn entity_name link_id dti_direction	IPA_DISCONNECT_DTI NOT_USED UDP_IP_LINK_ID NOT_USED
(6) WAP_DTI_CNF	dti_conn	WAP_DISCONNECT_DTI
(7) IPA_DTI_CNF	dti_conn link_id	IPA_DISCONNECT_DTI UDP_IP_LINK_ID
(8) UDPA_DTI_IND	link_id	WAP_UDP_LINK_ID
(9) UDPA_DTI_IND	link_id	UDP_IP_LINK_ID
(10) L2R_DEACTIVATE_REQ		
(11) L2R_DEACTIVATE_CNF		
(12) RA_DEACTIVATE_REQ		
(13) RA_DEACTIVATE_CNF		
(14) SIM_SYNC_REQ	synccs	SYNC_STOP_CALL
(15) MNCC_DISCONNECT_REQ	ti cause fac_inf ss_version	NUM_0 MNCC_CAUSE_CALL_CLEAR NOT_USED NOT_USED
(16) MNCC_RELEASE_IND	ti cause	NUM_0 MNCC_CAUSE_CALL_CLEAR
(17) ACI_CMD_IND	cmd_len cmd_seq	LM_NO_CARRIER M_NO_CARRIER

History: 07.12.00 xof Initial
 06.01.03 TLU adaptation to new IPA and UDPA SAP
 24.02.03 TLU WAP DTI handling added

3.7.3 ACIWAP082: L2R disconnect, peer disconnect after PPP_TERMINATE_REQ

Description: Hang up from L2R

Preamble: ACIWAP022

APL	ACI	PS
(1)	L2R_DISC_IND	
(2)	PPP_TERMINATE_REQ	
(3)	MNCC_DISCONNECT_IND	
(4)	SIM_SYNC_REQ	
(5)	PPP_TERMINATE_IND	
(6)	IPA_CONFIG_REQ	
(7)	IPA_CONFIG_CNF	
(8)	UDPA_CONFIG_REQ	
(9)	UDPA_CONFIG_CNF	
(10)	WAP_DTI_REQ	
(11)	IPA_DTI_REQ	
(12)	MNCC_RELEASE_CNF	
(13)	WAP_DTI_CNF	
(14)	IPA_DTI_CNF	
(15)	UDPA_DTI_IND	
(16)	UDPA_DTI_IND	
(17)	L2R_DEACTIVATE_REQ	
(18)	L2R_DEACTIVATE_CNF	
(19)	RA_DEACTIVATE_REQ	
(20)	RA_DEACTIVATE_CNF	
(21)	ACI_CMD_IND	
	(msg: NO CARRIER)	
	* <===== *	

Parametrization:

Primitive	Parameter	Value
(1) L2R_DISC_IND		
(2) PPP_TERMINATE_REQ	lower_layer	PPP_LOWER_LAYER_DOWN

(3) MNCC_DISCONNECT_IND	ti cause diagnostic progress_desc	NUM_0 MNCC_CAUSE_CALL_CLEAR NOT_PRESENT_8BIT PROG_NOT_PRES
(4) SIM_SYNC_REQ	synccs	SYNC_STOP_CALL
(5) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_NO_CHANNEL
(6) IPA_CONFIG_REQ	ip peer_ip mtu cmd	NUM_0 NUM_0 NUM_0 IPA_CONFIG_DOWN
(7) IPA_CONFIG_CNF	ack_flag all_down	NOT_USED IPA_ALLDOWN_TRUE
(8) UDPA_CONFIG_REQ	cmd	UDPA_CONFIG_DOWN
(9) UDPA_CONFIG_CNF		
(10) WAP_DTI_REQ	dti_conn entity_name link_id dti_direction	WAP_DISCONNECT_DTI NOT_USED WAP_UDP_LINK_ID NUM_1
(11) IPA_DTI_REQ	dti_conn entity_name link_id dti_direction	IPA_DISCONNECT_DTI NOT_USED UDP_IP_LINK_ID NOT_USED
(12) MNCC_RELEASE_CNF	ti cause	NOT_USED NOT_USED
(13) WAP_DTI_CNF	dti_conn	WAP_DISCONNECT_DTI
(14) IPA_DTI_CNF	dti_conn link_id	IPA_DISCONNECT_DTI UDP_IP_LINK_ID
(15) UDPA_DTI_IND	link_id	WAP_UDP_LINK_ID
(16) UDPA_DTI_IND	link_id	UDP_IP_LINK_ID
(17) L2R_DEACTIVATE_REQ		
(18) L2R_DEACTIVATE_CNF		
(19) RA_DEACTIVATE_REQ		
(20) RA_DEACTIVATE_CNF		
(21) ACI_CMD_IND	cmd_len cmd_seq	LM_NO_CARRIER M_NO_CARRIER

History: 06.12.00 xof Initial
 06.01.03 TLU adaptation to new IPA and UDPA SAP
 24.02.03 TLU WAP DTI handling added

3.7.4 ACIWAP083: L2R disconnect, peer disconnect after IPA_CONFIG_REQ

Description: Hang up from L2R

Preamble: ACIWAP022

APL	ACI	PS
(1)	L2R_DISC_IND	
(2)	PPP_TERMINATE_REQ	
(3)	PPP_TERMINATE_IND	
(4)	IPA_CONFIG_REQ	
(5)	MNCC_DISCONNECT_IND	
(6)	SIM_SYNC_REQ	
(7)	IPA_CONFIG_CNF	
(8)	UDPA_CONFIG_REQ	
(9)	UDPA_CONFIG_CNF	
(10)	WAP_DTI_REQ	
(11)	IPA_DTI_REQ	
(12)	WAP_DTI_CNF	
(13)	IPA_DTI_CNF	
(14)	UDPA_DTI_IND	
(15)	UDPA_DTI_IND	
(16)	L2R_DEACTIVATE_REQ	
(17)	MNCC_RELEASE_CNF	
(18)	L2R_DEACTIVATE_CNF	
(19)	RA_DEACTIVATE_REQ	
(20)	RA_DEACTIVATE_CNF	
(21)	ACI_CMD_IND	
	(msg: NO CARRIER)	
	* <===== *	

Parametrization:

Primitive	Parameter	Value
(1) L2R_DISC_IND		
(2) PPP_TERMINATE_REQ	lower_layer	PPP_LOWER_LAYER_DOWN

(3) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_NO_CHANNEL
(4) IPA_CONFIG_REQ	ip	NUM_0
	peer_ip	NUM_0
	mtu	NUM_0
	cmd	IPA_CONFIG_DOWN
(5) MNCC_DISCONNECT_IND	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	diagnostic	NOT_PRESENT_8BIT
	progress_desc	PROG_NOT_PRES
(6) SIM_SYNC_REQ	syncss	SYNC_STOP_CALL
(7) IPA_CONFIG_CNF	ack_flag	NOT_USED
	all_down	IPA_ALLDOWN_TRUE
(8) UDPA_CONFIG_REQ		
	cmd	UDPA_CONFIG_DOWN
(9) UDPA_CONFIG_CNF		
(10) WAP_DTI_REQ	dti_conn	WAP_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	WAP_UDP_LINK_ID
	dti_direction	NUM_1
(11) IPA_DTI_REQ	dti_conn	IPA_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	UDP_IP_LINK_ID
	dti_direction	NOT_USED
(12) WAP_DTI_CNF		
	dti_conn	WAP_DISCONNECT_DTI
(13) IPA_DTI_CNF	dti_conn	IPA_DISCONNECT_DTI
	link_id	UDP_IP_LINK_ID
(14) UDPA_DTI_IND		
	link_id	WAP_UDP_LINK_ID
(15) UDPA_DTI_IND		
	link_id	UDP_IP_LINK_ID
(16) L2R_DEACTIVATE_REQ		
(17) MNCC_RELEASE_CNF	ti	NOT_USED
	cause	NOT_USED
(18) L2R_DEACTIVATE_CNF		
(19) RA_DEACTIVATE_REQ		
(20) RA_DEACTIVATE_CNF		
(21) ACI_CMD_IND	cmd_len	LM_NO_CARRIER
	cmd_seq	M_NO_CARRIER

History: 06.12.00 xof Initial
 06.01.03 TLU adaptation to new IPA and UDPA SAP
 24.02.03 TLU WAP DTI handling added

3.7.5 ACIWAP084: L2R disconnect, peer disconnect before IPA_DTI_REQ (DISCONNECT)

Description: Hang up from L2R

Preamble: ACIWAP022

APL	ACI	PS
(1)	L2R_DISC_IND	
(2)	PPP_TERMINATE_REQ	
(3)	PPP_TERMINATE_IND	
(4)	IPA_CONFIG_REQ	
(5)	IPA_CONFIG_CNF	
(6)	UDPA_CONFIG_REQ	
(7)	UDPA_CONFIG_CNF	
(8)	WAP_DTI_REQ	
(9)	IPA_DTI_REQ	
(10)	MNCC_DISCONNECT_IND	
(11)	SIM_SYNC_REQ	
(12)	WAP_DTI_CNF	
(13)	IPA_DTI_CNF	
(14)	UDPA_DTI_IND	
(15)	UDPA_DTI_IND	
(16)	L2R_DEACTIVATE_REQ	
(17)	L2R_DEACTIVATE_CNF	
(18)	RA_DEACTIVATE_REQ	
(19)	MNCC_RELEASE_CNF	
(20)	RA_DEACTIVATE_CNF	
(21)	ACI_CMD_IND	
	(msg: NO CARRIER)	
	* <===== *	

Parametrization:

Primitive	Parameter	Value
(1) L2R_DISC_IND		
(2) PPP_TERMINATE_REQ	lower_layer	PPP_LOWER_LAYER_DOWN

(3) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_NO_CHANNEL
(4) IPA_CONFIG_REQ	ip	NUM_0
	peer_ip	NUM_0
	mtu	NUM_0
	cmd	IPA_CONFIG_DOWN
(5) IPA_CONFIG_CNF	ack_flag	NOT_USED
	all_down	IPA_ALLDOWN_TRUE
(6) UDPA_CONFIG_REQ	cmd	UDPA_CONFIG_DOWN
(7) UDPA_CONFIG_CNF		
(8) WAP_DTI_REQ	dti_conn	WAP_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	WAP_UDP_LINK_ID
	dti_direction	NUM_1
(9) IPA_DTI_REQ	dti_conn	IPA_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	UDP_IP_LINK_ID
	dti_direction	NOT_USED
(10) MNCC_DISCONNECT_IND	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	diagnostic	NOT_PRESENT_8BIT
	progress_desc	PROG_NOT_PRES
(11) SIM_SYNC_REQ	synccs	SYNC_STOP_CALL
(12) WAP_DTI_CNF	dti_conn	WAP_DISCONNECT_DTI
(13) IPA_DTI_CNF	dti_conn	IPA_DISCONNECT_DTI
	link_id	UDP_IP_LINK_ID
(14) UDPA_DTI_IND	link_id	WAP_UDP_LINK_ID
(15) UDPA_DTI_IND	link_id	UDP_IP_LINK_ID
(16) L2R_DEACTIVATE_REQ		
(17) L2R_DEACTIVATE_CNF		
(18) RA_DEACTIVATE_REQ		
(19) MNCC_RELEASE_CNF	ti	NOT_USED
	cause	NOT_USED
(20) RA_DEACTIVATE_CNF		
(21) ACI_CMD_IND	cmd_len	LM_NO_CARRIER
	cmd_seq	M_NO_CARRIER

History:	06.12.00 xof	Initial
	06.01.03 TLU	adaptation to new IPA and UDPA SAP
	24.02.03 TLU	WAP DTI handling added

3.7.6 ACIWAP085: L2R disconnect, peer disconnect after IPA_DTI_REQ (DISCONNECT)

Description: Hang up from L2R

Preamble: ACIWAP022

APL	ACI	PS
(1)	L2R_DISC_IND	
(2)	PPP_TERMINATE_REQ	
(3)	PPP_TERMINATE_IND	
(4)	IPA_CONFIG_REQ	
(5)	IPA_CONFIG_CNF	
(6)	UDPA_CONFIG_REQ	
(7)	UDPA_CONFIG_CNF	
(8)	WAP_DTI_REQ	
(9)	IPA_DTI_REQ	
(10)	WAP_DTI_CNF	
(11)	IPA_DTI_CNF	
(12)	MNCC_DISCONNECT_IND	
(13)	SIM_SYNC_REQ	
(14)	MNCC_RELEASE_CNF	
(15)	UDPA_DTI_IND	
(16)	UDPA_DTI_IND	
(17)	L2R_DEACTIVATE_REQ	
(18)	L2R_DEACTIVATE_CNF	
(19)	RA_DEACTIVATE_REQ	
(20)	RA_DEACTIVATE_CNF	
(21)	ACI_CMD_IND	
	(msg: NO CARRIER)	
	* <===== *	

Parametrization:

Primitive	Parameter	Value
(1) L2R_DISC_IND		
(2) PPP_TERMINATE_REQ	lower_layer	PPP_LOWER_LAYER_DOWN

(3) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_NO_CHANNEL
(4) IPA_CONFIG_REQ	ip	NUM_0
	peer_ip	NUM_0
	mtu	NUM_0
	cmd	IPA_CONFIG_DOWN
(5) IPA_CONFIG_CNF	ack_flag	NOT_USED
	all_down	IPA_ALLDOWN_TRUE
(6) UDPA_CONFIG_REQ	cmd	UDPA_CONFIG_DOWN
(7) UDPA_CONFIG_CNF		
(8) WAP_DTI_REQ	dti_conn	WAP_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	WAP_UDP_LINK_ID
	dti_direction	NUM_1
(9) IPA_DTI_REQ	dti_conn	IPA_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	UDP_IP_LINK_ID
	dti_direction	NOT_USED
(10) WAP_DTI_CNF	dti_conn	WAP_DISCONNECT_DTI
(11) IPA_DTI_CNF	dti_conn	IPA_DISCONNECT_DTI
	link_id	UDP_IP_LINK_ID
(12) MNCC_DISCONNECT_IND	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	diagnostic	NOT_PRESENT_8BIT
	progress_desc	PROG_NOT_PRES
(13) SIM_SYNC_REQ	syncs	SYNC_STOP_CALL
(14) MNCC_RELEASE_CNF	ti	NOT_USED
	cause	NOT_USED
(15) UDPA_DTI_IND	link_id	WAP_UDP_LINK_ID
(16) UDPA_DTI_IND	link_id	UDP_IP_LINK_ID
(17) L2R_DEACTIVATE_REQ		
(18) L2R_DEACTIVATE_CNF		
(19) RA_DEACTIVATE_REQ		
(20) RA_DEACTIVATE_CNF		
(21) ACI_CMD_IND	cmd_len	LM_NO_CARRIER
	cmd_seq	M_NO_CARRIER

History: 06.12.00 xof Initial
 06.01.03 TLU adaptation to new IPA and UDPA SAP
 24.02.03 TLU WAP DTI handling added

3.7.7 ACIWAP086: L2R disconnect, peer disconnect after L2R_DEACTIVATE_REQ

Description: Hang up from L2R

Preamble: ACIWAP022

APL	ACI	PS
(1)	L2R_DISC_IND	
(2)	PPP_TERMINATE_REQ	
(3)	PPP_TERMINATE_IND	
(4)	IPA_CONFIG_REQ	
(5)	IPA_CONFIG_CNF	
(6)	UDPA_CONFIG_REQ	
(7)	UDPA_CONFIG_CNF	
(8)	WAP_DTI_REQ	
(9)	IPA_DTI_REQ	
(10)	WAP_DTI_CNF	
(11)	IPA_DTI_CNF	
(12)	UDPA_DTI_IND	
(13)	UDPA_DTI_IND	
(14)	L2R_DEACTIVATE_REQ	
(15)	MNCC_DISCONNECT_IND	
(16)	SIM_SYNC_REQ	
(17)	L2R_DEACTIVATE_CNF	
(18)	RA_DEACTIVATE_REQ	
(19)	MNCC_RELEASE_CNF	
(20)	RA_DEACTIVATE_CNF	
(21)	ACI_CMD_IND	
	(msg: NO CARRIER)	
	* <===== *	

Parametrization:

Primitive	Parameter	Value
(1) L2R_DISC_IND		
(2) PPP_TERMINATE_REQ	lower_layer	PPP_LOWER_LAYER_DOWN

(3) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_NO_CHANNEL
(4) IPA_CONFIG_REQ	ip	NUM_0
	peer_ip	NUM_0
	mtu	NUM_0
	cmd	IPA_CONFIG_DOWN
(5) IPA_CONFIG_CNF	ack_flag	NOT_USED
	all_down	IPA_ALLDOWN_TRUE
(6) UDPA_CONFIG_REQ	cmd	UDPA_CONFIG_DOWN
(7) UDPA_CONFIG_CNF		
(8) WAP_DTI_REQ	dti_conn	WAP_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	WAP_UDP_LINK_ID
	dti_direction	NUM_1
(9) IPA_DTI_REQ	dti_conn	IPA_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	UDP_IP_LINK_ID
	dti_direction	NOT_USED
(10) WAP_DTI_CNF	dti_conn	WAP_DISCONNECT_DTI
(11) IPA_DTI_CNF	dti_conn	IPA_DISCONNECT_DTI
	link_id	UDP_IP_LINK_ID
(12) UDPA_DTI_IND	link_id	WAP_UDP_LINK_ID
(13) UDPA_DTI_IND	link_id	UDP_IP_LINK_ID
(14) L2R_DEACTIVATE_REQ		
(15) MNCC_DISCONNECT_IND	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	diagnostic	NOT_PRESENT_8BIT
	progress_desc	PROG_NOT_PRES
(16) SIM_SYNC_REQ	syncs	SYNC_STOP_CALL
(17) L2R_DEACTIVATE_CNF		
(18) RA_DEACTIVATE_REQ		
(19) MNCC_RELEASE_CNF	ti	NOT_USED
	cause	NOT_USED
(20) RA_DEACTIVATE_CNF		
(21) ACI_CMD_IND	cmd_len	LM_NO_CARRIER
	cmd_seq	M_NO_CARRIER

History:	06.12.00 xof	Initial
	06.01.03 TLU	adaptation to new IPA and UDPA SAP
	24.02.03 TLU	WAP DTI handling added

3.7.8 ACIWAP087: L2R disconnect, peer disconnect after RA_DEACTIVATE_REQ

Description: Hang up from L2R

Preamble: ACIWAP022

APL	ACI	PS
(1)	L2R_DISC_IND	
(2)	PPP_TERMINATE_REQ	
(3)	PPP_TERMINATE_IND	
(4)	IPA_CONFIG_REQ	
(5)	IPA_CONFIG_CNF	
(6)	UDPA_CONFIG_REQ	
(7)	UDPA_CONFIG_CNF	
(8)	WAP_DTI_REQ	
(9)	IPA_DTI_REQ	
(10)	WAP_DTI_CNF	
(11)	IPA_DTI_CNF	
(12)	UDPA_DTI_IND	
(13)	UDPA_DTI_IND	
(14)	L2R_DEACTIVATE_REQ	
(15)	L2R_DEACTIVATE_CNF	
(16)	RA_DEACTIVATE_REQ	
(17)	MNCC_DISCONNECT_IND	
(18)	SIM_SYNC_REQ	
(19)	MNCC_RELEASE_CNF	
(20)	RA_DEACTIVATE_CNF	
(21)	ACI_CMD_IND	
	(msg: NO CARRIER)	
	* <===== *	

Parametrization:

Primitive	Parameter	Value
(1) L2R_DISC_IND		
(2) PPP_TERMINATE_REQ	lower_layer	PPP_LOWER_LAYER_DOWN

(3) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_NO_CHANNEL
(4) IPA_CONFIG_REQ	ip	NUM_0
	peer_ip	NUM_0
	mtu	NUM_0
	cmd	IPA_CONFIG_DOWN
(5) IPA_CONFIG_CNF	ack_flag	NOT_USED
	all_down	IPA_ALLDOWN_TRUE
(6) UDPA_CONFIG_REQ	cmd	UDPA_CONFIG_DOWN
(7) UDPA_CONFIG_CNF		
(8) WAP_DTI_REQ	dti_conn	WAP_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	WAP_UDP_LINK_ID
	dti_direction	NUM_1
(9) IPA_DTI_REQ	dti_conn	IPA_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	UDP_IP_LINK_ID
	dti_direction	NOT_USED
(10) WAP_DTI_CNF	dti_conn	WAP_DISCONNECT_DTI
(11) IPA_DTI_CNF	dti_conn	IPA_DISCONNECT_DTI
	link_id	UDP_IP_LINK_ID
(12) UDPA_DTI_IND	link_id	WAP_UDP_LINK_ID
(13) UDPA_DTI_IND	link_id	UDP_IP_LINK_ID
(14) L2R_DEACTIVATE_REQ		
(15) L2R_DEACTIVATE_CNF		
(16) RA_DEACTIVATE_REQ		
(17) MNCC_DISCONNECT_IND	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	diagnostic	NOT_PRESENT_8BIT
	progress_desc	PROG_NOT_PRES
(18) SIM_SYNC_REQ	syncs	SYNC_STOP_CALL
(19) MNCC_RELEASE_CNF	ti	NOT_USED
	cause	NOT_USED
(20) RA_DEACTIVATE_CNF		
(21) ACI_CMD_IND	cmd_len	LM_NO_CARRIER
	cmd_seq	M_NO_CARRIER

History: 06.12.00 xof Initial
 06.01.03 TLU adaptation to new IPA and UDPA SAP
 24.02.03 TLU WAP DTI handling added

3.7.9 ACIWAP088: L2R disconnect, peer disconnect after RA_DEACTIVATE_REQ

Description: Hang up from L2R

Preamble: ACIWAP022

APL	ACI	PS
(1)	L2R_DISC_IND	
	* <===== *	
(2)	PPP_TERMINATE_REQ	
	* =====> *	
(3)	PPP_TERMINATE_IND	
	* <===== *	
(4)	IPA_CONFIG_REQ	
	* =====> *	
(5)	IPA_CONFIG_CNF	
	* <===== *	
(6)	UDPA_CONFIG_REQ	
	* =====> *	
(7)	UDPA_CONFIG_CNF	
	* <===== *	
(8)	WAP_DTI_REQ	
	* =====> *	
(9)	IPA_DTI_REQ	
	* =====> *	
(10)	WAP_DTI_CNF	
	* <===== *	
(11)	IPA_DTI_CNF	
	* <===== *	
(12)	UDPA_DTI_IND	
	* <===== *	
(13)	UDPA_DTI_IND	
	* <===== *	
(14)	L2R_DEACTIVATE_REQ	
	* =====> *	
(15)	L2R_DEACTIVATE_CNF	
	* <===== *	
(16)	RA_DEACTIVATE_REQ	
	* =====> *	
(17)	MNCC_DISCONNECT_IND	
	* <===== *	
(18)	SIM_SYNC_REQ	
	* =====> *	
(19)	RA_DEACTIVATE_CNF	
	* <===== *	
(20)	MNCC_RELEASE_CNF	
	* <===== *	
(21)	ACI_CMD_IND	
	(msg: NO CARRIER)	
	* <===== *	

Parametrization:

Primitive	Parameter	Value
(1) L2R_DISC_IND		
(2) PPP_TERMINATE_REQ	lower_layer	PPP_LOWER_LAYER_DOWN

(3) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_NO_CHANNEL
(4) IPA_CONFIG_REQ	ip	NUM_0
	peer_ip	NUM_0
	mtu	NUM_0
	cmd	IPA_CONFIG_DOWN
(5) IPA_CONFIG_CNF	ack_flag	NOT_USED
	all_down	IPA_ALLDOWN_TRUE
(6) UDPA_CONFIG_REQ	cmd	UDPA_CONFIG_DOWN
(7) UDPA_CONFIG_CNF		
(8) WAP_DTI_REQ	dti_conn	WAP_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	WAP_UDP_LINK_ID
	dti_direction	NUM_1
(9) IPA_DTI_REQ	dti_conn	IPA_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	UDP_IP_LINK_ID
	dti_direction	NOT_USED
(10) WAP_DTI_CNF	dti_conn	WAP_DISCONNECT_DTI
(11) IPA_DTI_CNF	dti_conn	IPA_DISCONNECT_DTI
	link_id	UDP_IP_LINK_ID
(12) UDPA_DTI_IND	link_id	WAP_UDP_LINK_ID
(13) UDPA_DTI_IND	link_id	UDP_IP_LINK_ID
(14) L2R_DEACTIVATE_REQ		
(15) L2R_DEACTIVATE_CNF		
(16) RA_DEACTIVATE_REQ		
(17) MNCC_DISCONNECT_IND	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	diagnostic	NOT_PRESENT_8BIT
	progress_desc	PROG_NOT_PRES
(18) SIM_SYNC_REQ	syncs	SYNC_STOP_CALL
(19) RA_DEACTIVATE_CNF		
(20) MNCC_RELEASE_CNF	ti	NOT_USED
	cause	NOT_USED
(21) ACI_CMD_IND	cmd_len	LM_NO_CARRIER
	cmd_seq	M_NO_CARRIER

History: 06.12.00 xof Initial
 06.01.03 TLU adaptation to new IPA and UDPA SAP
 24.02.03 TLU WAP DTI handling added

3.7.10 ACIWAP089: L2R disconnect, PPP send an error indication, peer disconnect

Description: Hang up from L2R

Preamble: ACIWAP022

APL	ACI	PS
(1)	L2R_DISC_IND	
(2)	PPP_TERMINATE_REQ	
(3)	PPP_TERMINATE_IND	
(4)	IPA_CONFIG_REQ	
(5)	PPP_TERMINATE_IND	
(6)	IPA_CONFIG_CNF	
(7)	UDPA_CONFIG_REQ	
(8)	UDPA_CONFIG_CNF	
(9)	WAP_DTI_REQ	
(10)	IPA_DTI_REQ	
(11)	WAP_DTI_CNF	
(12)	IPA_DTI_CNF	
(13)	UDPA_DTI_IND	
(14)	UDPA_DTI_IND	
(15)	L2R_DEACTIVATE_REQ	
(16)	L2R_DEACTIVATE_CNF	
(17)	RA_DEACTIVATE_REQ	
(18)	MNCC_DISCONNECT_IND	
(19)	SIM_SYNC_REQ	
(20)	MNCC_RELEASE_CNF	
(21)	RA_DEACTIVATE_CNF	
(22)	ACI_CMD_IND	
	(msg: NO CARRIER)	
	* <===== *	

Parametrization:

Primitive	Parameter	Value
(1) L2R_DISC_IND		
(2) PPP_TERMINATE_REQ	lower_layer	PPP_LOWER_LAYER_DOWN

(3) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_NO_CHANNEL
(4) IPA_CONFIG_REQ	ip	NUM_0
	peer_ip	NUM_0
	mtu	NUM_0
	cmd	IPA_CONFIG_DOWN
(5) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_NO_CHANNEL
(6) IPA_CONFIG_CNF	ack_flag	NOT_USED
	all_down	IPA_ALLDOWN_TRUE
(7) UDPA_CONFIG_REQ	cmd	UDPA_CONFIG_DOWN
(8) UDPA_CONFIG_CNF		
(9) WAP_DTI_REQ	dti_conn	WAP_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	WAP_UDP_LINK_ID
	dti_direction	NUM_1
(10) IPA_DTI_REQ	dti_conn	IPA_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	UDP_IP_LINK_ID
	dti_direction	NOT_USED
(11) WAP_DTI_CNF	dti_conn	WAP_DISCONNECT_DTI
(12) IPA_DTI_CNF	dti_conn	IPA_DISCONNECT_DTI
	link_id	UDP_IP_LINK_ID
(13) UDPA_DTI_IND	link_id	WAP_UDP_LINK_ID
(14) UDPA_DTI_IND	link_id	UDP_IP_LINK_ID
(15) L2R_DEACTIVATE_REQ		
(16) L2R_DEACTIVATE_CNF		
(17) RA_DEACTIVATE_REQ		
(18) MNCC_DISCONNECT_IND	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	diagnostic	NOT_PRESENT_8BIT
	progress_desc	PROG_NOT_PRES
(19) SIM_SYNC_REQ	syncs	SYNC_STOP_CALL
(20) MNCC_RELEASE_CNF	ti	NOT_USED
	cause	NOT_USED
(21) RA_DEACTIVATE_CNF		

(22) ACI_CMD_IND

cmd_len
cmd_seq

LM_NO_CARRIER
M_NO_CARRIER

History: 06.12.00 xof Initial
 06.01.03 TLU adaptation to new IPA and UDPA SAP
 24.02.03 TLU WAP DTI handling added

3.7.11 ACIWAP090: L2R disconnect, peer disconnect, receive PPP_TERMINATE_IND twice

Description: Hang up from L2R, receive PPP_TERMINATE_IND twice.

Preamble: ACIWAP022

APL	ACI	PS
(1)	L2R_DISC_IND	
(2)	PPP_TERMINATE_REQ	
(3)	PPP_TERMINATE_IND	
(4)	IPA_CONFIG_REQ	
(5)	IPA_CONFIG_CNF	
(6)	UDPA_CONFIG_REQ	
(7)	UDPA_CONFIG_CNF	
(8)	WAP_DTI_REQ	
(9)	IPA_DTI_REQ	
(10)	WAP_DTI_CNF	
(11)	IPA_DTI_CNF	
(12)	PPP_TERMINATE_IND	
(13)	UDPA_DTI_IND	
(14)	UDPA_DTI_IND	
(15)	L2R_DEACTIVATE_REQ	
(16)	L2R_DEACTIVATE_CNF	
(17)	RA_DEACTIVATE_REQ	
(18)	MNCC_DISCONNECT_IND	
(19)	SIM_SYNC_REQ	
(20)	RA_DEACTIVATE_CNF	
(21)	MNCC_RELEASE_CNF	
(22)	ACI_CMD_IND (msg: NO CARRIER)	

Parametrization:

Primitive	Parameter	Value
(1) L2R_DISC_IND		
(2) PPP_TERMINATE_REQ	lower_layer	PPP_LOWER_LAYER_DOWN

(3) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_NO_CHANNEL
(4) IPA_CONFIG_REQ	ip	NUM_0
	peer_ip	NUM_0
	mtu	NUM_0
	cmd	IPA_CONFIG_DOWN
(5) IPA_CONFIG_CNF	ack_flag	NOT_USED
	all_down	IPA_ALLDOWN_TRUE
(6) UDPA_CONFIG_REQ		
	cmd	UDPA_CONFIG_DOWN
(7) UDPA_CONFIG_CNF		
(8) WAP_DTI_REQ	dti_conn	WAP_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	WAP_UDP_LINK_ID
	dti_direction	NUM_1
(9) IPA_DTI_REQ	dti_conn	IPA_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	UDP_IP_LINK_ID
	dti_direction	NOT_USED
(10) WAP_DTI_CNF	dti_conn	WAP_DISCONNECT_DTI
(11) IPA_DTI_CNF	dti_conn	IPA_DISCONNECT_DTI
	link_id	UDP_IP_LINK_ID
(12) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_NO_CHANNEL
(13) UDPA_DTI_IND	link_id	WAP_UDP_LINK_ID
(14) UDPA_DTI_IND	link_id	UDP_IP_LINK_ID
(15) L2R_DEACTIVATE_REQ		
(16) L2R_DEACTIVATE_CNF		
(17) RA_DEACTIVATE_REQ		
(18) MNCC_DISCONNECT_IND	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	diagnostic	NOT_PRESENT_8BIT
	progress_desc	PROG_NOT PRES
(19) SIM_SYNC_REQ	syncs	SYNC_STOP_CALL
(20) RA_DEACTIVATE_CNF		
(21) MNCC_RELEASE_CNF	ti	NOT_USED
	cause	NOT_USED

(22) ACI_CMD_IND

cmd_len
cmd_seq

LM_NO_CARRIER
M_NO_CARRIER

History: 06.12.00 xof Initial
 06.01.03 TLU adaptation to new IPA and UDPA SAP
 24.02.03 TLU WAP DTI handling added

3.8 Peer MNCC disconnect (ACIWAP100 - ACIWAP0XX)

3.8.1 ACIWAP100: Peer hang up with MNCC_DISCONNECT_IND

Description: Hang up from network

Preamble: ACIWAP022

APL	ACI	PS
(1)	MNCC_DISCONNECT_IND	
(2)	SIM_SYNC_REQ	
(3)	PPP_TERMINATE_REQ	
(4)	PPP_TERMINATE_IND	
(5)	IPA_CONFIG_REQ	
(6)	IPA_CONFIG_CNF	
(7)	UDPA_CONFIG_REQ	
(8)	UDPA_CONFIG_CNF	
(9)	WAP_DTI_REQ	
(10)	IPA_DTI_REQ	
(11)	WAP_DTI_CNF	
(12)	IPA_DTI_CNF	
(13)	MNCC_RELEASE_CNF	
(14)	UDPA_DTI_IND	
(15)	UDPA_DTI_IND	
(16)	L2R_DEACTIVATE_REQ	
(17)	L2R_DEACTIVATE_CNF	
(18)	RA_DEACTIVATE_REQ	
(19)	RA_DEACTIVATE_CNF	
(20)	ACI_CMD_IND (msg: NO CARRIER)	

Parametrization:

Primitive	Parameter	Value
(1) MNCC_DISCONNECT_IND	ti cause diagnostic progress_desc	NUM_0 MNCC_CAUSE_CALL_CLEAR NOT_PRESENT_8BIT PROG_NOTPres
(2) SIM_SYNC_REQ	syncacs	SYNC_STOP_CALL

(3) PPP_TERMINATE_REQ	lower_layer	PPP_LOWER_LAYER_DOWN
(4) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_NO_CHANNEL
(5) IPA_CONFIG_REQ	ip	NUM_0
	peer_ip	NUM_0
	mtu	NUM_0
	cmd	IPA_CONFIG_DOWN
(6) IPA_CONFIG_CNF	ack_flag	NOT_USED
	all_down	IPA_ALLDOWN_TRUE
(7) UDPA_CONFIG_REQ	cmd	UDPA_CONFIG_DOWN
(8) UDPA_CONFIG_CNF		
(9) WAP_DTI_REQ	dti_conn	WAP_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	WAP_UDP_LINK_ID
	dti_direction	NUM_1
(10) IPA_DTI_REQ	dti_conn	IPA_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	UDP_IP_LINK_ID
	dti_direction	NOT_USED
(11) WAP_DTI_CNF	dti_conn	WAP_DISCONNECT_DTI
(12) IPA_DTI_CNF	dti_conn	IPA_DISCONNECT_DTI
	link_id	UDP_IP_LINK_ID
(13) MNCC_RELEASE_CNF	ti	NOT_USED
	cause	NOT_USED
(14) UDPA_DTI_IND	link_id	WAP_UDP_LINK_ID
(15) UDPA_DTI_IND	link_id	UDP_IP_LINK_ID
(16) L2R_DEACTIVATE_REQ		
(17) L2R_DEACTIVATE_CNF		
(18) RA_DEACTIVATE_REQ		
(19) RA_DEACTIVATE_CNF		
(20) ACI_CMD_IND	cmd_len	LM_NO_CARRIER
	cmd_seq	M_NO_CARRIER

History: 15.09.00 Clb Initial
 06.01.03 TLU adaptation to new IPA and UDPA SAP
 24.02.03 TLU WAP DTI handling added

3.8.2 ACIWAP101: Peer hang up with MNCC_RELEASE_IND

Description: Hang up from network

Preamble: ACIWAP022

APL	ACI	PS
(1)	MNCC_DISCONNECT_IND	
(2)	SIM_SYNC_REQ	
(3)	PPP_TERMINATE_REQ	
(4)	PPP_TERMINATE_IND	
(5)	IPA_CONFIG_REQ	
(6)	IPA_CONFIG_CNF	
(7)	UDPA_CONFIG_REQ	
(8)	UDPA_CONFIG_CNF	
(9)	WAP_DTI_REQ	
(10)	IPA_DTI_REQ	
(11)	WAP_DTI_CNF	
(12)	IPA_DTI_CNF	
(13)	UDPA_DTI_IND	
(14)	UDPA_DTI_IND	
(15)	L2R_DEACTIVATE_REQ	
(16)	L2R_DEACTIVATE_CNF	
(17)	RA_DEACTIVATE_REQ	
(18)	RA_DEACTIVATE_CNF	
(19)	MNCC_RELEASE_CNF	
(20)	ACI_CMD_IND (msg: NO CARRIER)	
	* <=====	*

Parametrization:

Primitive	Parameter	Value
(1) MNCC_DISCONNECT_IND	ti cause diagnostic progress_desc	NUM_0 MNCC_CAUSE_CALL_CLEAR NOT_PRESENT_8BIT PROG_NOT_PRES
(2) SIM_SYNC_REQ	synccs	SYNC_STOP_CALL
(3) PPP_TERMINATE_REQ	lower_layer	PPP_LOWER_LAYER_DOWN
(4) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_NO_CHANNEL
(5) IPA_CONFIG_REQ	ip peer_ip mtu cmd	NUM_0 NUM_0 NUM_0 IPA_CONFIG_DOWN
(6) IPA_CONFIG_CNF	ack_flag all_down	NOT_USED IPA_ALLDOWN_TRUE
(7) UDPA_CONFIG_REQ	cmd	UDPA_CONFIG_DOWN
(8) UDPA_CONFIG_CNF		
(9) WAP_DTI_REQ	dti_conn entity_name link_id dti_direction	WAP_DISCONNECT_DTI NOT_USED WAP_UDP_LINK_ID NUM_1
(10) IPA_DTI_REQ	dti_conn entity_name link_id dti_direction	IPA_DISCONNECT_DTI NOT_USED UDP_IP_LINK_ID NOT_USED
(11) WAP_DTI_CNF	dti_conn	WAP_DISCONNECT_DTI
(12) IPA_DTI_CNF	dti_conn link_id	IPA_DISCONNECT_DTI UDP_IP_LINK_ID
(13) UDPA_DTI_IND	link_id	WAP_UDP_LINK_ID
(14) UDPA_DTI_IND	link_id	UDP_IP_LINK_ID
(15) L2R_DEACTIVATE_REQ		
(16) L2R_DEACTIVATE_CNF		
(17) RA_DEACTIVATE_REQ		
(18) RA_DEACTIVATE_CNF		

(19)	MNCC_RELEASE_CNF	ti	NOT_USED
		cause	NOT_USED
(20)	ACI_CMD_IND		
		cmd_len	LM_NO_CARRIER
		cmd_seq	M_NO_CARRIER
History:	15.09.00 Clb	Initial	
	06.01.03 TLU	adaptation to new IPA and UDPA SAP	
	24.02.03 TLU	WAP DTI handling added	

3.8.3 ACIWAP102: Peer hang up and receive PPP_TERMINATE_IND twice

Description: Hang up from network. PPP_TERMINATE_IND received twice. The whole WAP stack shall terminate.

Preamble: ACIWAP022

APL	ACI	PS
(1)	MNCC_DISCONNECT_IND	
(2)	SIM_SYNC_REQ	
(3)	PPP_TERMINATE_IND	
(4)	PPP_TERMINATE_REQ	
(5)	PPP_TERMINATE_IND	
(6)	IPA_CONFIG_REQ	
(7)	IPA_CONFIG_CNF	
(8)	UDPA_CONFIG_REQ	
(9)	UDPA_CONFIG_CNF	
(10)	WAP_DTI_REQ	
(11)	IPA_DTI_REQ	
(12)	WAP_DTI_CNF	
(13)	IPA_DTI_CNF	
(14)	UDPA_DTI_IND	
(15)	UDPA_DTI_IND	
(16)	L2R_DEACTIVATE_REQ	
(17)	L2R_DEACTIVATE_CNF	
(18)	RA_DEACTIVATE_REQ	
(19)	RA_DEACTIVATE_CNF	
(20)	MNCC_RELEASE_CNF	
(21)	ACI_CMD_IND (msg: NO CARRIER)	

Parametrization:

Primitive	Parameter	Value
(1) MNCC_DISCONNECT_IND	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	diagnostic	NOT_PRESENT_8BIT
	progress_desc	PROG_NOT_PRES

(2) SIM_SYNC_REQ	synccs	SYNC_STOP_CALL
(3) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_NO_CHANNEL
(4) PPP_TERMINATE_REQ	lower_layer	PPP_LOWER_LAYER_DOWN
(5) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_NO_CHANNEL
(6) IPA_CONFIG_REQ	ip peer_ip mtu cmd	NUM_0 NUM_0 NUM_0 IPA_CONFIG_DOWN
(7) IPA_CONFIG_CNF	ack_flag all_down	NOT_USED IPA_ALLDOWN_TRUE
(8) UDPA_CONFIG_REQ	cmd	UDPA_CONFIG_DOWN
(9) UDPA_CONFIG_CNF		
(10) WAP_DTI_REQ	dti_conn entity_name link_id dti_direction	WAP_DISCONNECT_DTI NOT_USED WAP_UDP_LINK_ID NUM_1
(11) IPA_DTI_REQ	dti_conn entity_name link_id dti_direction	IPA_DISCONNECT_DTI NOT_USED UDP_IP_LINK_ID NOT_USED
(12) WAP_DTI_CNF	dti_conn	WAP_DISCONNECT_DTI
(13) IPA_DTI_CNF	dti_conn link_id	IPA_DISCONNECT_DTI UDP_IP_LINK_ID
(14) UDPA_DTI_IND	link_id	WAP_UDP_LINK_ID
(15) UDPA_DTI_IND	link_id	UDP_IP_LINK_ID
(16) L2R_DEACTIVATE_REQ		
(17) L2R_DEACTIVATE_CNF		
(18) RA_DEACTIVATE_REQ		
(19) RA_DEACTIVATE_CNF		
(20) MNCC_RELEASE_CNF	ti cause	NOT_USED NOT_USED

(21) ACI_CMD_IND

cmd_len
cmd_seq

LM_NO_CARRIER
M_NO_CARRIER

History: 07.12.00 xof Initial
 06.01.03 TLU adaptation to new IPA and UDPA SAP
 24.02.03 TLU WAP DTI handling added

3.8.4 ACIWAP103: Peer hang up and ACI receives a second PPP_TERMINATE_IND after IPA_CONFIG_REQ

Description: Hang up from network

Preamble: ACIWAP022

APL	ACI	PS
(1)	MNCC_DISCONNECT_IND	
(2)	SIM_SYNC_REQ	
(3)	PPP_TERMINATE_REQ	
(4)	PPP_TERMINATE_IND	
(5)	IPA_CONFIG_REQ	
(6)	PPP_TERMINATE_IND	
(7)	IPA_CONFIG_CNF	
(8)	UDPA_CONFIG_REQ	
(9)	UDPA_CONFIG_CNF	
(10)	WAP_DTI_REQ	
(11)	IPA_DTI_REQ	
(12)	WAP_DTI_CNF	
(13)	IPA_DTI_CNF	
(14)	UDPA_DTI_IND	
(15)	UDPA_DTI_IND	
(16)	L2R_DEACTIVATE_REQ	
(17)	L2R_DEACTIVATE_CNF	
(18)	RA_DEACTIVATE_REQ	
(19)	RA_DEACTIVATE_CNF	
(20)	MNCC_RELEASE_CNF	
(21)	ACI_CMD_IND (msg: NO CARRIER)	
	* <=====*	

Parametrization:

Primitive	Parameter	Value
(1) MNCC_DISCONNECT_IND	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	diagnostic	NOT_PRESENT_8BIT
	progress_desc	PROG_NOT_PRES

(2) SIM_SYNC_REQ	synccs	SYNC_STOP_CALL
(3) PPP_TERMINATE_REQ	lower_layer	PPP_LOWER_LAYER_DOWN
(4) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_NO_CHANNEL
(5) IPA_CONFIG_REQ	ip	NUM_0
	peer_ip	NUM_0
	mtu	NUM_0
	cmd	IPA_CONFIG_DOWN
(6) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_OK_MMI
(7) IPA_CONFIG_CNF	ack_flag	NOT_USED
	all_down	IPA_ALLDOWN_TRUE
(8) UDPA_CONFIG_REQ	cmd	UDPA_CONFIG_DOWN
(9) UDPA_CONFIG_CNF		
(10) WAP_DTI_REQ	dti_conn	WAP_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	WAP_UDP_LINK_ID
	dti_direction	NUM_1
(11) IPA_DTI_REQ	dti_conn	IPA_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	UDP_IP_LINK_ID
	dti_direction	NOT_USED
(12) WAP_DTI_CNF	dti_conn	WAP_DISCONNECT_DTI
(13) IPA_DTI_CNF	dti_conn	IPA_DISCONNECT_DTI
	link_id	UDP_IP_LINK_ID
(14) UDPA_DTI_IND	link_id	WAP_UDP_LINK_ID
(15) UDPA_DTI_IND	link_id	UDP_IP_LINK_ID
(16) L2R_DEACTIVATE_REQ		
(17) L2R_DEACTIVATE_CNF		
(18) RA_DEACTIVATE_REQ		
(19) RA_DEACTIVATE_CNF		
(20) MNCC_RELEASE_CNF	ti	NOT_USED
	cause	NOT_USED
(21) ACI_CMD_IND	cmd_len	LM_NO_CARRIER
	cmd_seq	M_NO_CARRIER

History: 07.12.00 xof Initial
 06.01.03 TLU adaptation to new IPA and UDPA SAP
 24.02.03 TLU WAP DTI handling added

3.8.5 ACIWAP104: Peer hang up and ACI receives a second PPP_TERMINATE_IND and L2R_ERROR_IND

Description: Hang up from network

Preamble: ACIWAP022

APL	ACI	PS
(1)	MNCC_DISCONNECT_IND	
(2)	SIM_SYNC_REQ	
(3)	PPP_TERMINATE_REQ	
(4)	PPP_TERMINATE_IND	
(5)	IPA_CONFIG_REQ	
(6)	PPP_TERMINATE_IND	
(7)	IPA_CONFIG_CNF	
(8)	UDPA_CONFIG_REQ	
(9)	UDPA_CONFIG_CNF	
(10)	WAP_DTI_REQ	
(11)	IPA_DTI_REQ	
(12)	WAP_DTI_CNF	
(13)	IPA_DTI_CNF	
(14)	L2R_ERROR_IND	
(15)	UDPA_DTI_IND	
(16)	UDPA_DTI_IND	
(17)	L2R_DEACTIVATE_REQ	
(18)	L2R_DEACTIVATE_CNF	
(19)	RA_DEACTIVATE_REQ	
(20)	RA_DEACTIVATE_CNF	
(21)	MNCC_RELEASE_CNF	
(22)	ACI_CMD_IND	
	(msg: NO CARRIER)	
	* <=====	

Parametrization:

Primitive	Parameter	Value
(1) MNCC_DISCONNECT_IND	ti	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR

	diagnostic progress_desc	NOT_PRESENT_8BIT PROG_NOT_PRES
(2) SIM_SYNC_REQ	synccs	SYNC_STOP_CALL
(3) PPP_TERMINATE_REQ	lower_layer	PPP_LOWER_LAYER_DOWN
(4) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_NO_CHANNEL
(5) IPA_CONFIG_REQ	ip peer_ip mtu cmd	NUM_0 NUM_0 NUM_0 IPA_CONFIG_DOWN
(6) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_NO_CHANNEL
(7) IPA_CONFIG_CNF	ack_flag all_down	NOT_USED IPA_ALLDOWN_TRUE
(8) UDPA_CONFIG_REQ	cmd	UDPA_CONFIG_DOWN
(9) UDPA_CONFIG_CNF		
(10) WAP_DTI_REQ	dti_conn entity_name link_id dti_direction	WAP_DISCONNECT_DTI NOT_USED WAP_UDP_LINK_ID NUM_1
(11) IPA_DTI_REQ	dti_conn entity_name link_id dti_direction	IPA_DISCONNECT_DTI NOT_USED UDP_IP_LINK_ID NOT_USED
(12) WAP_DTI_CNF	dti_conn	WAP_DISCONNECT_DTI
(13) IPA_DTI_CNF	dti_conn link_id	IPA_DISCONNECT_DTI UDP_IP_LINK_ID
(14) L2R_ERROR_IND	cause	CAUSE_DUMMY
(15) UDPA_DTI_IND	link_id	WAP_UDP_LINK_ID
(16) UDPA_DTI_IND	link_id	UDP_IP_LINK_ID
(17) L2R_DEACTIVATE_REQ		
(18) L2R_DEACTIVATE_CNF		
(19) RA_DEACTIVATE_REQ		
(20) RA_DEACTIVATE_CNF		

(21) MNCC_RELEASE_CNF	ti	NOT_USED
	cause	NOT_USED
(22) ACI_CMD_IND	cmd_len	LM_NO_CARRIER
	cmd_seq	M_NO_CARRIER
History:	07.12.00 xof	Initial
	06.01.03 TLU	adaptation to new IPA and UDPA SAP
	24.02.03 TLU	WAP DTI handling added

3.9 Peer rejects (ACIWAP120 – ACIWAP1XX)

3.9.1 ACIWAP120: Rejecting from peer

Description:

Preamble: ACIWAP022

APL	ACI	PS
(1)	MNCC_REJECT_IND	
(2)	SIM_SYNC_REQ	
(3)	PPP_TERMINATE_REQ	
(4)	PPP_TERMINATE_IND	
(5)	IPA_CONFIG_REQ	
(6)	IPA_CONFIG_CNF	
(7)	UDPA_CONFIG_REQ	
(8)	UDPA_CONFIG_CNF	
(9)	WAP_DTI_REQ	
(10)	IPA_DTI_REQ	
(11)	WAP_DTI_CNF	
(12)	IPA_DTI_CNF	
(13)	UDPA_DTI_IND	
(14)	UDPA_DTI_IND	
(15)	L2R_DEACTIVATE_REQ	
(16)	L2R_DEACTIVATE_CNF	
(17)	RA_DEACTIVATE_REQ	
(18)	RA_DEACTIVATE_CNF	
(19)	ACI_CMD_IND (msg: NO CARRIER)	

Parametrization:

Primitive	Parameter	Value
(1) MNCC_REJECT_IND	ti	NOT_USED
	cause	NOT_USED
(2) SIM_SYNC_REQ	syncacs	SYNC_STOP_CALL
(3) PPP_TERMINATE_REQ	lower_layer	PPP_LOWER_LAYER_DOWN

(4) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_NO_CHANNEL
(5) IPA_CONFIG_REQ	ip	NUM_0
	peer_ip	NUM_0
	mtu	NUM_0
	cmd	IPA_CONFIG_DOWN
(6) IPA_CONFIG_CNF	ack_flag	NOT_USED
	all_down	IPA_ALLDOWN_TRUE
(7) UDPA_CONFIG_REQ	cmd	UDPA_CONFIG_DOWN
(8) UDPA_CONFIG_CNF		
(9) WAP_DTI_REQ	dti_conn	WAP_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	WAP_UDP_LINK_ID
	dti_direction	NUM_1
(10) IPA_DTI_REQ	dti_conn	IPA_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	UDP_IP_LINK_ID
	dti_direction	NOT_USED
(11) WAP_DTI_CNF	dti_conn	WAP_DISCONNECT_DTI
(12) IPA_DTI_CNF	dti_conn	IPA_DISCONNECT_DTI
	link_id	UDP_IP_LINK_ID
(13) UDPA_DTI_IND	link_id	WAP_UDP_LINK_ID
(14) UDPA_DTI_IND	link_id	UDP_IP_LINK_ID
(15) L2R_DEACTIVATE_REQ		
(16) L2R_DEACTIVATE_CNF		
(17) RA_DEACTIVATE_REQ		
(18) RA_DEACTIVATE_CNF		
(19) ACI_CMD_IND	cmd_len	LM_NO_CARRIER
	cmd_seq	M_NO_CARRIER

History: 07.12.00 xof Initial
 06.01.03 TLU adaptation to new IPA and UDPA SAP
 24.02.03 TLU WAP DTI handling added

3.9.2 ACIWAP121: Rejecting from peer, error indication from PPP, receive PPP_TERMINATE_IND twice

Description: Hang up from network

Preamble: ACIWAP022

APL	ACI	PS
(1)	MNCC_REJECT_IND	
(2)	SIM_SYNC_REQ	
(3)	PPP_TERMINATE_REQ	
(4)	PPP_TERMINATE_IND	
(5)	IPA_CONFIG_REQ	
(6)	PPP_TERMINATE_IND	
(7)	IPA_CONFIG_CNF	
(8)	UDPA_CONFIG_REQ	
(9)	UDPA_CONFIG_CNF	
(10)	WAP_DTI_REQ	
(11)	IPA_DTI_REQ	
(12)	WAP_DTI_CNF	
(13)	IPA_DTI_CNF	
(14)	UDPA_DTI_IND	
(15)	UDPA_DTI_IND	
(16)	L2R_DEACTIVATE_REQ	
(17)	L2R_DEACTIVATE_CNF	
(18)	RA_DEACTIVATE_REQ	
(19)	RA_DEACTIVATE_CNF	
(20)	ACI_CMD_IND (msg: NO CARRIER)	

Parametrization:

Primitive	Parameter	Value
(1) MNCC_REJECT_IND	ti	NOT_USED
	cause	NOT_USED
(2) SIM_SYNC_REQ	syncs	SYNC_STOP_CALL

(3) PPP_TERMINATE_REQ	lower_layer	PPP_LOWER_LAYER_DOWN
(4) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_NO_CHANNEL
(5) IPA_CONFIG_REQ	ip	NUM_0
	peer_ip	NUM_0
	mtu	NUM_0
	cmd	IPA_CONFIG_DOWN
(6) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_OK_MMI
(7) IPA_CONFIG_CNF	ack_flag	NOT_USED
	all_down	IPA_ALLDOWN_TRUE
(8) UDPA_CONFIG_REQ	cmd	UDPA_CONFIG_DOWN
(9) UDPA_CONFIG_CNF		
(10) WAP_DTI_REQ	dti_conn	WAP_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	WAP_UDP_LINK_ID
	dti_direction	NUM_1
(11) IPA_DTI_REQ	dti_conn	IPA_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	UDP_IP_LINK_ID
	dti_direction	NOT_USED
(12) WAP_DTI_CNF	dti_conn	WAP_DISCONNECT_DTI
(13) IPA_DTI_CNF	dti_conn	IPA_DISCONNECT_DTI
	link_id	UDP_IP_LINK_ID
(14) UDPA_DTI_IND	link_id	WAP_UDP_LINK_ID
(15) UDPA_DTI_IND	link_id	UDP_IP_LINK_ID
(16) L2R_DEACTIVATE_REQ		
(17) L2R_DEACTIVATE_CNF		
(18) RA_DEACTIVATE_REQ		
(19) RA_DEACTIVATE_CNF		
(20) ACI_CMD_IND	cmd_len	LM_NO_CARRIER
	cmd_seq	M_NO_CARRIER

History: 07.12.00 xof Initial
 06.01.03 TLU adaptation to new IPA and UDPA SAP
 24.02.03 TLU WAP DTI handling added

3.9.3 ACIWAP122: Rejecting from peer, error indication from L2R

Description:

Preamble: ACIWAP022

APL	ACI	PS
(1)	MNCC_REJECT_IND	
(2)	SIM_SYNC_REQ	
(3)	PPP_TERMINATE_REQ	
(4)	PPP_TERMINATE_IND	
(5)	IPA_CONFIG_REQ	
(6)	L2R_ERROR_IND	
(7)	IPA_CONFIG_CNF	
(8)	UDPA_CONFIG_REQ	
(9)	UDPA_CONFIG_CNF	
(10)	WAP_DTI_REQ	
(11)	IPA_DTI_REQ	
(12)	WAP_DTI_CNF	
(13)	IPA_DTI_CNF	
(14)	UDPA_DTI_IND	
(15)	UDPA_DTI_IND	
(16)	L2R_DEACTIVATE_REQ	
(17)	L2R_DEACTIVATE_CNF	
(18)	RA_DEACTIVATE_REQ	
(19)	RA_DEACTIVATE_CNF	
(20)	ACI_CMD_IND (msg: NO CARRIER)	

Parametrization:

Primitive	Parameter	Value
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(1) MNCC_REJECT_IND	ti cause	NOT_USED NOT_USED
(2) SIM_SYNC_REQ	synccs	SYNC_STOP_CALL
(3) PPP_TERMINATE_REQ	lower_layer	PPP_LOWER_LAYER_DOWN
(4) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_NO_CHANNEL
(5) IPA_CONFIG_REQ	ip peer_ip mtu cmd	NUM_0 NUM_0 NUM_0 IPA_CONFIG_DOWN
(6) L2R_ERROR_IND	cause	CAUSE_DUMMY
(7) IPA_CONFIG_CNF	ack_flag all_down	NOT_USED IPA_ALLDOWN_TRUE
(8) UDPA_CONFIG_REQ	cmd	UDPA_CONFIG_DOWN
(9) UDPA_CONFIG_CNF		
(10) WAP_DTI_REQ	dti_conn entity_name link_id dti_direction	WAP_DISCONNECT_DTI NOT_USED WAP_UDP_LINK_ID NUM_1
(11) IPA_DTI_REQ	dti_conn entity_name link_id dti_direction	IPA_DISCONNECT_DTI NOT_USED UDP_IP_LINK_ID NOT_USED
(12) WAP_DTI_CNF	dti_conn	WAP_DISCONNECT_DTI
(13) IPA_DTI_CNF	dti_conn link_id	IPA_DISCONNECT_DTI UDP_IP_LINK_ID
(14) UDPA_DTI_IND	link_id	WAP_UDP_LINK_ID
(15) UDPA_DTI_IND	link_id	UDP_IP_LINK_ID
(16) L2R_DEACTIVATE_REQ		
(17) L2R_DEACTIVATE_CNF		
(18) RA_DEACTIVATE_REQ		
(19) RA_DEACTIVATE_CNF		

(20)	ACI_CMD_IND	cmd_len	LM_NO_CARRIER
		cmd_seq	M_NO_CARRIER

History:

07.12.00 xof	Initial
06.01.03 TLU	adaptation to new IPA and UDPA SAP
24.02.03 TLU	WAP DTI handling added

3.9.4 ACIWAP123: Rejecting from peer, disconnect from L2R

Description:

Preamble: ACIWAP022

APL	ACI	PS
(1)	MNCC_REJECT_IND	
(2)	SIM_SYNC_REQ	
(3)	PPP_TERMINATE_REQ	
(4)	PPP_TERMINATE_IND	
(5)	IPA_CONFIG_REQ	
(6)	IPA_CONFIG_CNF	
(7)	UDPA_CONFIG_REQ	
(8)	UDPA_CONFIG_CNF	
(9)	WAP_DTI_REQ	
(10)	IPA_DTI_REQ	
(11)	L2R_DISC_IND	
(12)	WAP_DTI_CNF	
(13)	IPA_DTI_CNF	
(14)	UDPA_DTI_IND	
(15)	UDPA_DTI_IND	
(16)	L2R_DEACTIVATE_REQ	
(17)	L2R_DEACTIVATE_CNF	
(18)	RA_DEACTIVATE_REQ	
(19)	RA_DEACTIVATE_CNF	
(20)	ACI_CMD_IND (msg: NO CARRIER)	

Parametrization:

Primitive	Parameter	Value
(1) MNCC_REJECT_IND	ti	NOT_USED
	cause	NOT_USED
(2) SIM_SYNC_REQ	synccs	SYNC_STOP_CALL

(3) PPP_TERMINATE_REQ	lower_layer	PPP_LOWER_LAYER_DOWN
(4) PPP_TERMINATE_IND	ppp_cause	PPP_TERM_NO_CHANNEL
(5) IPA_CONFIG_REQ	ip	NUM_0
	peer_ip	NUM_0
	mtu	NUM_0
	cmd	IPA_CONFIG_DOWN
(6) IPA_CONFIG_CNF	ack_flag	NOT_USED
	all_down	IPA_ALLDOWN_TRUE
(7) UDPA_CONFIG_REQ	cmd	UDPA_CONFIG_DOWN
(8) UDPA_CONFIG_CNF		
(9) WAP_DTI_REQ	dti_conn	WAP_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	WAP_UDP_LINK_ID
	dti_direction	NUM_1
(10) IPA_DTI_REQ	dti_conn	IPA_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	UDP_IP_LINK_ID
	dti_direction	NOT_USED
(11) L2R_DISC_IND		
(12) WAP_DTI_CNF	dti_conn	WAP_DISCONNECT_DTI
(13) IPA_DTI_CNF	dti_conn	IPA_DISCONNECT_DTI
	link_id	UDP_IP_LINK_ID
(14) UDPA_DTI_IND	link_id	WAP_UDP_LINK_ID
(15) UDPA_DTI_IND	link_id	UDP_IP_LINK_ID
(16) L2R_DEACTIVATE_REQ		
(17) L2R_DEACTIVATE_CNF		
(18) RA_DEACTIVATE_REQ		
(19) RA_DEACTIVATE_CNF		
(20) ACI_CMD_IND	cmd_len	LM_NO_CARRIER
	cmd_seq	M_NO_CARRIER

History: 07.12.00 xof Initial
 06.01.03 TLU adaptation to new IPA and UDPA SAP
 24.02.03 TLU WAP DTI handling added