



Technical Document

GSM FAX & DATA SERVICES

TEST SPECIFICATION

ACIDTI

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- [52] Technical Documentation ACI
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1.2 Abbreviations

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

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

1.3 Terms

| | |
|-----------------------|--|
| Entity: | Program which executes the functions of a layer |
| Message: | A message is a data unit which is transferred between the entities of the same layer (peer-to-peer) of the mobile and infrastructure side. Message is used as a synonym to protocol data unit (PDU). A message may contain several information elements. |
| Primitive: | A primitive is a data unit which is transferred between layers on one component (mobile station or infrastructure). The primitive has an operation code which identifies the primitive and its parameters. |
| Service Access Point: | A Service Access Point is a data interface between two layers on one component (mobile station or infrastructure). |

2 Overview

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

The protocol stack for fax and data transmission consists of several entities. Each entity has one 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 :

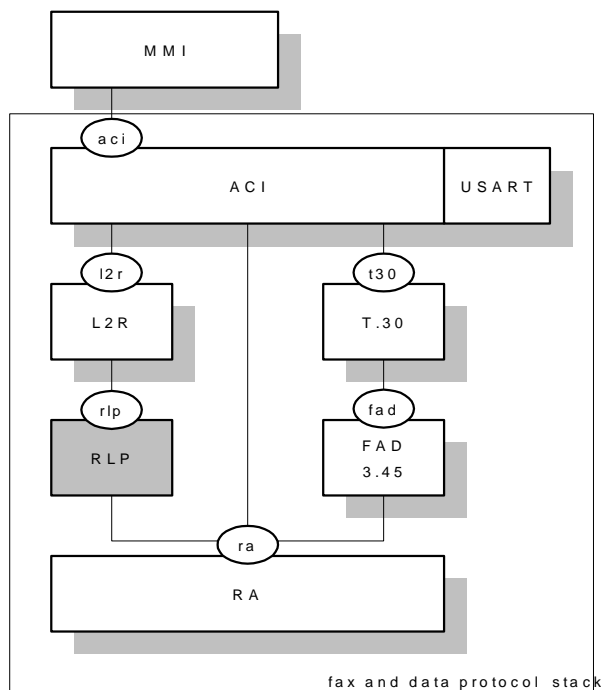


Figure 2-1: Architecture of the fax and data protocol stack

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

The entities of the fax and data protocol stack are:

2.1 RA - Rate Adaptation

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

2.2 RLP - Radio Link Protocol

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

2.3 L2R - Layer 2 Relay Functionality

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

2.4 FAD 03.45 - Fax Adaptation Protocol

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

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

2.5 T.30 - Fax Protocol Entity

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

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

2.6 ACI - AT Command Interpreter

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

2.7 USART - Universal Synchronous Asynchronous Receiver Transmitter Driver

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

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

3 Parameters

```
/* array declarations */  
DECLARATION (F_AT_BLUP)  
DECLARATION (F_AT_E0)  
DECLARATION (F_AT_E1)  
DECLARATION (F_AT_CMUX)  
DECLARATION (F_AT_AND_D0)
```

DECLARATION (F_AT_AND_D1)
DECLARATION (F_AT_AND_D2)
DECLARATION (F_AT)
DECLARATION (F_AT_CF)
DECLARATION (F_AT_UN1)
DECLARATION (F_AT_H)
DECLARATION (F_AT_O)
DECLARATION (F_AT_REP)
DECLARATION (F_AT_CBST_NONTRA)
DECLARATION (F_AT_CBST_TRA)
DECLARATION (F_AT_D_DAT)
DECLARATION (F_AT_PLUS_CMOD_FAX)
DECLARATION (F_AT_PLUS_FCLASS_2_0)
DECLARATION (F_AT_PLUS_FNR)
DECLARATION (F_AT_PLUS_FIS3)
DECLARATION (F_AT_D_DAT2)
DECLARATION (F_AT_PLUS_FDT)
DECLARATION (F_C_ATA)
DECLARATION (F_AT_PLUS_FDR)
DECLARATION (F_AT_PERC_DATA)
DECLARATION (F_AT_PERC_DATA_Q)
DECLARATION (F_AT_PERC_DINF_Q)

DECLARATION (F_RESP_OK)
DECLARATION (F_RESP_ERROR)
DECLARATION (F_RESP_EXT_I)
DECLARATION (F_RESP_A)
DECLARATION (F_RESP_T)
DECLARATION (F_RESP_E)
DECLARATION (F_RESP_0)
DECLARATION (F_RESP_CR)
DECLARATION (F_RESP_CONNECT)
DECLARATION (F_RESP_NO_CARRIER)
DECLARATION (F_RESP_PLUS_FCO)
DECLARATION (F_RESP_PLUS_FIS)
DECLARATION (F_RESP_PLUS_FCS13)
DECLARATION (F_RESP_PLUS_FHS)
DECLARATION (F_RESP_PLUS_FPS)
DECLARATION (F_RESP_PLUS_FET0)
DECLARATION (F_RESP_PLUS_FET2)
DECLARATION (F_RESP_PERC_DATA)
DECLARATION (F_RESP_PERC_DATA_NO_RED)
DECLARATION (F_RESP_PERC_DINF)
DECLARATION (F_RING)

DECLARATION (A_ECC_FIELD)
DECLARATION (A_AD_FIELD_CI_DISABLED)
DECLARATION (A_CLD_NUM)
DECLARATION (A_CLG_NUM)

/* structure declarations */

DECLARATION (S_BS_DAT_9600_ASY_TRA)
DECLARATION (S_BS_DAT_9600_ASY_NON_TRA)
DECLARATION (S_BS_NOT_PRESENT)
DECLARATION (S_CLD_PARTY)
DECLARATION (S_CLD_PARTY_SUB)
DECLARATION (S_CHN_FULL_9600)

DECLARATION (S_CLG_PARTY)
DECLARATION (S_CLG_PARTY_SUB)
DECLARATION (S_BS_FAX)
DECLARATION (S_BS_VOICE)
DECLARATION (S_HDLC_DIS_9600)
DECLARATION (S_DIS_9600)
DECLARATION (S_HDLC_DCS)
DECLARATION (S_DCS)
DECLARATION (DEFAULT_DCB_FROM_DIO_1)
DECLARATION (DEFAULT_DCB_FROM_DIO_2)
DECLARATION (DEFAULT_DCB_FROM_ACI_1)
DECLARATION (DEFAULT_DCB_FROM_ACI_2)

/* 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_18 18
BYTE NUM_20 20
BYTE NUM_27 27
BYTE NUM_30 30
BYTE NUM_50 50
BYTE NUM_DEC_90 90
BYTE NUM_512 512

SHORT NUM_4800 4800
SHORT NUM_9600 9600

SHORTEOL_0 0x0000

LONG ACI_DTI_LINK_ID_1 0x00000100
LONG ACI_DTI_LINK_ID_2 0x00000200

/* PKTIO data */

LONG LONG_0 0x00000000
BYTE DIO_CONV_PACKET 0x02
BYTE DIO_CONV_FAIL 0x09
BYTE DIO_MODE_DATA 0x02
BYTE DIO_SLEEP_DISABLE 0x02
LONG DIO_BAUD_812500 0x80000
LONG DIO_BAUD_14400 0x0400
BYTE DIO_CHAR_8 0x80
BYTE DIO_STOP_1 0x01
BYTE DIO_PARITY_NO 0x01
SHORT DIO_FLOW_HW_HW 0x100
BYTE DIO_ESC_OFF 0x00
SHORT PKTCS_SUCCESS 0xD200

BYTE NORMAL_WAY 0x01
BYTE DTI_ID_15 0x15

```
/*
 * Maximum transmission unit
 */
SHORT          MTU_1500          1500

/* All baud rates allowed on shared memory except DIO_BAUD_AUTO
 */
LONG          DIO_BAUD_SHARED MEM          0x000FFFFE
LONG          DIO_BAUD_TEST_1          0x000005FE

/*----- AT commands from/to Test Src----- */

/*
Command:      &D
              DTR behaviour
 */
STRING(C_AND_D0, "AT&D0" )
STRING(C_AND_D1, "AT&D1" )
STRING(C_AND_D2, "AT&D2" )
BYTE LC_AND_D 5

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

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

/*----- AT commands ----- */

/* AT cmd AT+BLUP field */
BEGINARRAY (F_AT_BLUP, 12) 0x40, 0x00, 0x00, 0x00, 0x41, 0x54, 0x2B, 0x42, 0x4C, 0x55, 0x50,
0x0D
ENDARRAY

/* AT cmd ATE0 field */
BEGINARRAY (F_AT_E0, 9) 0x28, 0x00, 0x00, 0x00, 0x41, 0x54, 0x45, 0x30, 0x0D
ENDARRAY

/* AT cmd ATE1 field */
BEGINARRAY (F_AT_E1, 9) 0x28, 0x00, 0x00, 0x00, 0x41, 0x54, 0x45, 0x31, 0x0D
ENDARRAY

/* AT cmd AT+CMUX field */
BEGINARRAY (F_AT_CMUX, 14) 0x50, 0x00, 0x00, 0x00, 0x41, 0x54, 0x2B, 0x43, 0x4D, 0x55,
0x58, 0x3D, 0x31, 0x0D
ENDARRAY

/* AT cmd AT&D0 field */
BEGINARRAY (F_AT_AND_D0, 10) 0x30, 0x00, 0x00, 0x00, 0x41, 0x54, 0x26, 0x44, 0x30, 0x0D
ENDARRAY
```

```
/* AT cmd AT&D1 field */
BEGINARRAY (F_AT_AND_D1, 10) 0x30, 0x00, 0x00, 0x00, 0x41, 0x54, 0x26, 0x44, 0x31, 0x0D
ENDARRAY

/* AT cmd AT&D2 field */
BEGINARRAY (F_AT_AND_D2, 10) 0x30, 0x00, 0x00, 0x00, 0x41, 0x54, 0x26, 0x44, 0x32, 0x0D
ENDARRAY

/* AT cmd AT field */
BEGINARRAY (F_AT, 7) 0x18, 0x00, 0x00, 0x00, 0x41, 0x54, 0x0D
ENDARRAY

/* AT cmd GPAT+CF field */
BEGINARRAY (F_AT_CF, 11) 0x38, 0x00, 0x00, 0x00, 0x47, 0x50, 0x41, 0x54, 0x2B, 0x43, 0x46
ENDARRAY

/* AT cmd AT_UN1 field */
BEGINARRAY (F_AT_UN1, 9) 0x28, 0x00, 0x00, 0x00, 0x55, 0x4E, 0x3D, 0x31, 0x0D
ENDARRAY

/* AT cmd ATH field */
BEGINARRAY (F_AT_H, 8) 0x20, 0x00, 0x00, 0x00, 0x41, 0x54, 0x48, 0x0D
ENDARRAY

/* AT cmd ATO field */
BEGINARRAY (F_AT_O, 8) 0x20, 0x00, 0x00, 0x00, 0x41, 0x54, 0x4F, 0x0D
ENDARRAY

/* AT cmd A/ field */
BEGINARRAY (F_AT_REP, 7) 0x18, 0x00, 0x00, 0x00, 0x41, 0x2F, 0x0D
ENDARRAY

/* AT cmd AT+CBST=71,0,1 field */
BEGINARRAY (F_AT_CBST_NONTRA, 19) 0x78, 0x00, 0x00, 0x00, 0x41, 0x54, 0x2B, 0x43, 0x42,
    0x53, 0x54, 0x3D, 0x37, 0x31, 0x2C, 0x30, 0x2C, 0x31, 0x0D
ENDARRAY

/* AT cmd AT+CBST=71,0,0 field */
BEGINARRAY (F_AT_CBST_TRA, 19) 0x78, 0x00, 0x00, 0x00, 0x41, 0x54, 0x2B, 0x43, 0x42, 0x53,
    0x54, 0x3D, 0x37, 0x31, 0x2C, 0x30, 0x2C, 0x30, 0x0D
ENDARRAY

/* AT cmd ATD123456 field */
BEGINARRAY (F_AT_D_DAT, 19) 0x78, 0x00, 0x00, 0x00, 0x41, 0x54, 0x44, 0x30, 0x33, 0x30,
    0x33, 0x39, 0x30, 0x39, 0x34, 0x34, 0x34, 0x34, 0x0D
ENDARRAY

/* AT+CBST=7,0,0;+CMOD=1^M */
BEGINARRAY (F_AT_PLUS_CMOD_FAX, 26)
    0xB0, 0x00, 0x00, 0x00,
    0x41, 0x54, 0x2B, 0x43, 0x42,
    0x53, 0x54, 0x3D, 0x37, 0x2C, 0x30, 0x2C, 0x30,
    0x3B, 0x2B, 0x43, 0x4D, 0x4F, 0x44, 0x3D, 0x31,
    0x0D
ENDARRAY

/* AT+FCLASS=2.0^M */
```

```
BEGINARRAY (F_AT_PLUS_FCLASS_2_0, 18)
    0x70, 0x00, 0x00, 0x00,
    0x41, 0x54, 0x2B, 0x46, 0x43, 0x4C, 0x41, 0x53, 0x53, 0x3D, 0x32, 0x2E, 0x30, 0x0D
ENDARRAY

/* AT+FNR=1,1,1,0^M */
BEGINARRAY (F_AT_PLUS_FNR, 19)
    0x78, 0x00, 0x00, 0x00,
    0x41, 0x54, 0x2B, 0x46, 0x4E, 0x52, 0x3D, 0x31, 0x2C, 0x31, 0x2C, 0x31, 0x2C, 0x30, 0x0D
ENDARRAY

BEGINARRAY (F_AT_PLUS_FIS3, 27)
    0xB8, 0x00, 0x00, 0x00,
    0x41, 0x54, 0x2B, 0x46, 0x49, 0x53,
    0x3D, 0x31, 0x2C, 0x33, 0x2C, 0x30, 0x2C, 0x32, 0x2C, 0x30, 0x2C, 0x30, 0x2C, 0x30, 0x2C,
    0x30, 0x0D
ENDARRAY

/* ATDT(030)39094444^M */
BEGINARRAY (F_AT_D_DAT2, 22)
    0x90, 0x00, 0x00, 0x00,
    0x41, 0x54, 0x44, 0x54, 0x28, 0x30, 0x33, 0x30, 0x29, 0x33, 0x39, 0x30, 0x39, 0x34, 0x34, 0x34,
    0x34, 0x0D
ENDARRAY

/* AT+FDT */
BEGINARRAY (F_AT_PLUS_FDT, 11)
    0x38, 0x00, 0x00, 0x00,
    0x41, 0x54, 0x2B, 0x46, 0x44, 0x54, 0x0D
ENDARRAY

/* ATA */
BEGINARRAY (F_C_ATA, 8)
    0x20, 0x00, 0x00, 0x00,
    0x41, 0x54, 0x41, 0x0D
ENDARRAY

/* AT+FDR */
BEGINARRAY (F_AT_PLUS_FDR, 11)
    0x38, 0x00, 0x00, 0x00,
    0x41, 0x54, 0x2B, 0x46, 0x44, 0x52, 0x0D
ENDARRAY

/* AT%DATA=2,"PKTIO",0,0,"PKT","UART",0,0,1 */
BEGINARRAY (F_AT_PERC_DATA, 45)
    0x48, 0x01, 0x00, 0x00,
    0x41, 0x54, 0x25, 0x44, 0x41, 0x54, 0x41, 0x3D, 0x32, 0x2C, 0x22, 0x50, 0x4B, 0x54, 0x49,
    0x4F, 0x22, 0x2C, 0x30, 0x2C, 0x30, 0x2C, 0x22, 0x50, 0x4B, 0x54,
    0x22, 0x2C, 0x22, 0x55, 0x41, 0x52, 0x54, 0x22, 0x2C, 0x30, 0x2C, 0x30, 0x2C, 0x31,
    0x0D
ENDARRAY

/* AT%DATA? */
BEGINARRAY (F_AT_PERC_DATA_Q, 13)
    0x48, 0x00, 0x00, 0x00,
    0x41, 0x54, 0x25, 0x44, 0x41, 0x54, 0x41, 0x3F, 0x0D
ENDARRAY

/* AT%DINF=0 */
```



```
BEGINARRAY (F_AT_PERC_DINF_Q, 14)
0x50, 0x00, 0x00, 0x00,
0x41, 0x54, 0x25, 0x44, 0x49, 0x4E, 0x46, 0x3D, 0x30, 0x0D
ENDARRAY
```

/*----- AT command responses -----*/

/* OK Response */

```
BEGINARRAY (F_RESP_OK, 6)
0x10, 0x00, 0x00, 0x00, 0x4F, 0x4B
ENDARRAY
```

/* "Error" Response */

```
BEGINARRAY (F_RESP_ERROR, 9) 0x28, 0x00, 0x00, 0x00, 0x45, 0x52, 0x52, 0x4f, 0x52
ENDARRAY
```

/* "EXT I" Response */

```
BEGINARRAY (F_RESP_EXT_I, 10) 0x30, 0x00, 0x00, 0x00, 0x45, 0x58, 0x54, 0x3A, 0x20, 0x49
ENDARRAY
```

/* Echo ATE0 */

/* */

```
BEGINARRAY (F_RESP_A, 5) 0x08, 0x00, 0x00, 0x00, 0x41
ENDARRAY
```

/* */

```
BEGINARRAY (F_RESP_T, 5) 0x08, 0x00, 0x00, 0x00, 0x54
ENDARRAY
```

/* */

```
BEGINARRAY (F_RESP_E, 5) 0x08, 0x00, 0x00, 0x00, 0x45
ENDARRAY
```

/* */

```
BEGINARRAY (F_RESP_0, 5) 0x08, 0x00, 0x00, 0x00, 0x30
ENDARRAY
```

/* _ */

```
BEGINARRAY (F_RESP_CR, 5)
0x08, 0x00, 0x00, 0x00, 0x0D
ENDARRAY
```

/* CONNECT Response */

```
BEGINARRAY (F_RESP_CONNECT, 11) 0x38, 0x00, 0x00, 0x00, 0x43, 0x4F, 0x4E, 0x4E, 0x45,
0x43, 0x54
ENDARRAY
```

/* NO CARRIER Response */

```
BEGINARRAY (F_RESP_NO_CARRIER, 11) 0x50, 0x00, 0x00, 0x00, 0x4E, 0x4F, 0x20, 0x43, 0x41,
0x52, 0x52, 0x49, 0x45, 0x52
ENDARRAY
```

/* ^M+FCO */

```
BEGINARRAY (F_RESP_PLUS_FCO, 8)
0x20, 0x00, 0x00, 0x00,
0x2B, 0x46, 0x43, 0x4F
ENDARRAY
```

```
BEGINARRAY (F_RESP_PLUS_FIS, 26)
    0xB0, 0x00, 0x00, 0x00,
    0x2B, 0x46, 0x49, 0x53,
    0x3A, 0x31, 0x2C, 0x33, 0x2C, 0x30, 0x2C, 0x32, 0x2C, 0x30, 0x2C, 0x30, 0x2C, 0x30, 0x2C,
    0x30, 0x2C, 0x30
ENDARRAY

BEGINARRAY (F_RESP_PLUS_FCS13, 26)
    0xB0, 0x00, 0x00, 0x00,
    0x2B, 0x46, 0x43, 0x53,
    0x3A, 0x31, 0x2C, 0x33, 0x2C, 0x30, 0x2C, 0x32, 0x2C, 0x30, 0x2C, 0x30, 0x2C, 0x30, 0x2C,
    0x30, 0x2C, 0x30
ENDARRAY

/* +FHS:00 */
BEGINARRAY (F_RESP_PLUS_FHS, 11)
    0x38, 0x00, 0x00, 0x00,
    0x2B, 0x46, 0x48, 0x53, 0x3A, 0x30, 0x30
ENDARRAY

/* +FPS:1,0,0,0,0 */
BEGINARRAY (F_RESP_PLUS_FPS, 18)
    0x70, 0x00, 0x00, 0x00,
    0x2B, 0x46, 0x50, 0x53, 0x3A, 0x31, 0x2C, 0x30, 0x2C, 0x30, 0x2C, 0x30, 0x2C, 0x30, 0x2C, 0x30
ENDARRAY

/* +FET:0 */
BEGINARRAY (F_RESP_PLUS_FET0, 10)
    0x30, 0x00, 0x00, 0x00,
    0x2B, 0x46, 0x45, 0x54, 0x3A, 0x30
ENDARRAY

/* +FET:2 */
BEGINARRAY (F_RESP_PLUS_FET2, 10)
    0x30, 0x00, 0x00, 0x00,
    0x2B, 0x46, 0x45, 0x54, 0x3A, 0x32
ENDARRAY

/* RING */
BEGINARRAY (F_RING, 8)
    0x20, 0x00, 0x00, 0x00,
    0x52, 0x49, 0x4E, 0x47
ENDARRAY

/* %DATA:2,"PKTIO",0,0,"PKT","UART",0,0,1 */
BEGINARRAY (F_RESP_PERC_DATA, 42)
    0x30, 0x01, 0x00, 0x00,
    0x25, 0x44, 0x41, 0x54, 0x41, 0x3A, 0x32, 0x2C, 0x22, 0x50, 0x4B, 0x54, 0x49, 0x4F, 0x22, 0x2C,
    0x30, 0x2C, 0x30, 0x2C, 0x22, 0x50, 0x4B, 0x54, 0x22, 0x2C, 0x22, 0x55, 0x41, 0x52, 0x54, 0x22,
    0x2C, 0x30, 0x2C, 0x30, 0x2C, 0x31
ENDARRAY

/* %DATA:0,,0,0,,0,0,0 */
BEGINARRAY (F_RESP_PERC_DATA_NO_RED, 24)
    0xA0, 0x00, 0x00, 0x00,
    0x25, 0x44, 0x41, 0x54, 0x41, 0x3A, 0x30, 0x2C, 0x2C, 0x30, 0x2C, 0x30, 0x2C, 0x2C, 0x2C,
    0x30, 0x2C, 0x30, 0x2C, 0x30
ENDARRAY
```

```
/* %DINF:"UART",0,0,"CMD,SER","CMD",0 */
BEGINARRAY (F_RESP_PERC_DINF, 38)
    0x10, 0x01, 0x00, 0x00,
    0x25, 0x44, 0x49, 0x4E, 0x46, 0x3A, 0x22, 0x55, 0x41, 0x52, 0x54, 0x22, 0x2C, 0x30, 0x2C, 0x30,
    0x2C, 0x22, 0x43, 0x4D, 0x44, 0x2C, 0x53, 0x45, 0x52, 0x22, 0x2C, 0x22, 0x43, 0x4D, 0x44,
    0x22, 0x2C, 0x30
ENDARRAY
```

/*----- Arrays -----*/

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

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

```
/* called number array */
BEGINARRAY_PART (A_CLD_NUM,11) 0x0, 0x3, 0x0, 0x3, 0x9, 0x0, 0x9, 0x4, 0x4, 0x4, 0x4
ENDARRAY
BYTE LA_CLD_NUM 11
```

```
/* calling number array */
BEGINARRAY_PART (A_CLG_NUM,11) 0x0, 0x3, 0x0, 0x3, 0x9, 0x0, 0x9, 0x4, 0x2, 0x2, 0x3
ENDARRAY
BYTE LA_CLG_NUM 11
```

/*----- Structures -----*/

```
/* 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_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_NONE)
ENDSTRUCT
```

```
/* bearer service not present */
BEGIN_PSTRUCT ("bcpara", S_BS_NOT_PRESENT)
    SET_COMP ("rate", UR_NOT_PRES)
    SET_COMP ("bearer_serv", BEARER_SERV_NOT_PRES)
    SET_COMP ("conn_elem", CONN_ELEM_NOT_PRES)
```

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

/* 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)
    SET_COMP ("called_num",  A_CLD_NUM)
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

/* 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

/* 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

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

BEGIN_PSTRUCT ("hdlc_info", S_HDLC_DIS_9600)
    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_9600)
    SET_COMP ("v_dcs", NUM_0)
    SKIP_COMP ("dcs")
    SET_COMP ("v_dtc", NUM_0)
    SKIP_COMP ("dtc")
ENDSTRUCT

/* DIS frame – 9600 bps */
BEGIN_PSTRUCT ("dis", S_DIS_9600)
    SKIP_COMP ("v8")
    SKIP_COMP ("n_byte")
    SKIP_COMP ("ready_tx_fax")
    SKIP_COMP ("rec_fax_op")
    SET_COMP ("data_sig_rate", NUM_8)
    SET_COMP ("R8_lines_pels", NUM_1)
    SKIP_COMP ("two_dim_coding")
    SKIP_COMP ("rec_width")
    SET_COMP ("max_rec_len", NUM_1)
    SET_COMP ("min_scan_time", NUM_7)
    SKIP_COMP ("uncomp_mode")
    SKIP_COMP ("err_corr_mode")
    SKIP_COMP ("frame_size")
    SKIP_COMP ("t6_coding")
    SKIP_COMP ("R8_lines")
    SKIP_COMP ("r_300_pels")
    SKIP_COMP ("R16_lines_pels")
```

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

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

```
/* 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
```

/*DIO Capabilities from DIO */

```
BEGIN_PSTRUCT ("dio_dcb", DEFAULT_DCB_FROM_DIO_1)
    SET_COMP ("convergence", DIO_CONV_PACKET)
    SET_COMP ("data_mode", DIO_MODE_DATA)
    SET_COMP ("sleep_mode", DIO_SLEEP_DISABLE)
    SET_COMP ("mux_configuration", LONG_0)
    SET_COMP ("n1", NUM_0)
    SET_COMP ("n2", NUM_0)
```

```
SET_COMP ("t1", NUM_0)
SET_COMP ("t2", NUM_0)
SET_COMP ("t3", NUM_0)
SET_COMP ("k", NUM_0)
SET_COMP ("mtu", MTU_1500)
SET_COMP ("baud", DIO_BAUD_SHARED MEM)
SET_COMP ("data_bits", DIO_CHAR_8) /* Some defaults */
SET_COMP ("stop_bits", DIO_STOP_1) /* Some defaults */
SET_COMP ("parity", DIO_PARITY_NO) /* Some defaults */
SET_COMP ("flow_control", DIO_FLOW_HW_HW) /* Shared memory is HW */
SET_COMP ("xon", NUM_0)
SET_COMP ("xoff", NUM_0)
SET_COMP ("esc_char", NUM_0)
SET_COMP ("guard_period", DIO_ESC_OFF) /* No guard pattern detection */
ENDSTRUCT
```

```
BEGIN_PSTRUCT ("dio_dcb", DEFAULT_DCB_FROM_DIO_2)
SET_COMP ("convergence", DIO_CONV_PACKET)
SET_COMP ("data_mode", DIO_MODE_DATA)
SET_COMP ("sleep_mode", DIO_SLEEP_DISABLE)
SET_COMP ("mux_configuration", LONG_0)
SET_COMP ("n1", NUM_0)
SET_COMP ("n2", NUM_0)
SET_COMP ("t1", NUM_0)
SET_COMP ("t2", NUM_0)
SET_COMP ("t3", NUM_0)
SET_COMP ("k", NUM_0)
SET_COMP ("mtu", MTU_1500)
SET_COMP ("baud", DIO_BAUD_TEST_1)
SET_COMP ("data_bits", DIO_CHAR_8) /* Some defaults */
SET_COMP ("stop_bits", DIO_STOP_1) /* Some defaults */
SET_COMP ("parity", DIO_PARITY_NO) /* Some defaults */
SET_COMP ("flow_control", DIO_FLOW_HW_HW) /* Shared memory is HW */
SET_COMP ("xon", NUM_0)
SET_COMP ("xoff", NUM_0)
SET_COMP ("esc_char", NUM_0)
SET_COMP ("guard_period", DIO_ESC_OFF) /* No guard pattern detection */
ENDSTRUCT
```

/*DIO Capabilities from ACI */

```
BEGIN_PSTRUCT ("dio_dcb", DEFAULT_DCB_FROM_ACI_1)
SET_COMP ("convergence", DIO_CONV_PACKET)
SET_COMP ("data_mode", DIO_MODE_DATA)
SET_COMP ("sleep_mode", DIO_SLEEP_DISABLE)
SET_COMP ("mux_configuration", LONG_0)
SET_COMP ("n1", NUM_0)
SET_COMP ("n2", NUM_0)
SET_COMP ("t1", NUM_0)
SET_COMP ("t2", NUM_0)
SET_COMP ("t3", NUM_0)
SET_COMP ("k", NUM_0)
SET_COMP ("mtu", MTU_1500)
SET_COMP ("baud", DIO_BAUD_812500) /* Negotiated highest common */
SET_COMP ("data_bits", DIO_CHAR_8)
SET_COMP ("stop_bits", DIO_STOP_1)
SET_COMP ("parity", DIO_PARITY_NO)
SET_COMP ("flow_control", DIO_FLOW_HW_HW)
SET_COMP ("xon", NUM_0)
```



```

        SET_COMP ("xoff", NUM_0)
        SET_COMP ("esc_char", NUM_0)
        SET_COMP ("guard_period", DIO_ESC_OFF)
    ENDSTRUCT

BEGIN_PSTRUCT ("dio_dcb", DEFAULT_DCB_FROM_ACI_2)
    SET_COMP ("convergence", DIO_CONV_PACKET)
    SET_COMP ("data_mode", DIO_MODE_DATA)
    SET_COMP ("sleep_mode", DIO_SLEEP_DISABLE)
    SET_COMP ("mux_configuration", LONG_0)
    SET_COMP ("n1", NUM_0)
    SET_COMP ("n2", NUM_0)
    SET_COMP ("t1", NUM_0)
    SET_COMP ("t2", NUM_0)
    SET_COMP ("t3", NUM_0)
    SET_COMP ("k", NUM_0)
    SET_COMP ("mtu", MTU_1500)
    SET_COMP ("baud", DIO_BAUD_14400) /* Negotiated highest common */
    SET_COMP ("data_bits", DIO_CHAR_8)
    SET_COMP ("stop_bits", DIO_STOP_1)
    SET_COMP ("parity", DIO_PARITY_NO)
    SET_COMP ("flow_control", DIO_FLOW_HW_HW)
    SET_COMP ("xon", NUM_0)
    SET_COMP ("xoff", NUM_0)
    SET_COMP ("esc_char", NUM_0)
    SET_COMP ("guard_period", DIO_ESC_OFF)
ENDSTRUCT

```

4 TEST CASES

4.1 Initialisation

4.1.1 ACIDTI000: Preamble

Description:

Preamble:

| APL | None | ACI | PS |
|----------------------------------|------|-----|----|
| | | | |
| COMMAND (TAP RESET) | | | |
| COMMAND (CC RESET) | | | |
| COMMAND (MM RESET) | | | |
| COMMAND (SIM RESET) | | | |
| COMMAND (SS RESET) | | | |
| COMMAND (SMS RESET) | | | |
| | | | |
| COMMAND (UART REDIRECT MMI NULL) | | | |
| | | | |
| COMMAND (UART RESET) | | | |
| COMMAND (MMI RESET) | | | |
| COMMAND (PL RESET) | | | |
| COMMAND (PKT 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 (PKT 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 UART TAP)
COMMAND (MMI REDIRECT RA TAP)
COMMAND (MMI REDIRECT PKT TAP)
COMMAND (PL REDIRECT MMI NULL)
COMMAND (UART REDIRECT MMI NULL)
|
COMMAND (TAP REDIRECT TAP MMI)
COMMAND (MMI REDIRECT MMI TAP)
|
|
|

```

Parametrization:

| Primitive | Parameter | Value |
|-----------|--------------|---------|
| History: | 15.02.01 Clb | Initial |

4.1.2 ACIDTI001: UART Init

Description: MMI reset is done after in the initialization... Means, every primitive that has to be sent at the very beginning should be here defined.

Preamble:
ACIDTI000

| APL | ACI | PS |
|------|---------------------|----|
| (1) | UART_PARAMETERS_IND | |
| (2) | * <=====* | |
| (3) | UART_PARAMETERS_REQ | |
| (4) | * =====>* | |
| (5) | UART_PARAMETERS_CNF | |
| (6) | * <=====* | |
| (7) | DTI2_CONNECT_REQ | |
| (8) | * =====>* | |
| (9) | UART_DTI_REQ | |
| (10) | * =====>* | |
| (11) | DTI2_CONNECT_CNF | |
| | * <=====* | |
| | UART_DTI_CNF | |
| | * <=====* | |
| | UART_DCD_REQ | |
| | * =====>* | |
| | DTI2_GETDATA_REQ | |
| | * =====>* | |
| | UART_DCD_CNF | |
| | * <=====* | |
| | DTI2_READY_IND | |
| | * <=====* | |
| | | |

Parametrization:

| Primitive | Parameter | Value |
|-------------------------|----------------|---------------------------|
| (1) UART_PARAMETERS_IND | uart_instances | NUM_1 |
| (2) UART_PARAMETERS_REQ | device | NUM_0 |
| | comPar | NOT_USED |
| (3) UART_PARAMETERS_CNF | device | NUM_0 |
| (4) DTI2_CONNECT_REQ | link_id | ACI_DTI_LINK_ID_1 |
| | version | DTI_VERSION_10 |
| (5) UART_DTI_REQ | dti_conn | UART_CONNECT_DTI |
| | device | NUM_0 |
| | dlci | UART_DLCI_NOT_MULTIPLEXED |
| | direction | NUM_0 |
| | link_id | ACI_DTI_LINK_ID_1 |
| | entity_name | NOT_USED |
| (6) DTI2_CONNECT_CNF | link_id | ACI_DTI_LINK_ID_1 |
| | version | DTI_VERSION_10 |
| (7) UART_DTI_CNF | dti_conn | UART_CONNECT_DTI |
| | device | NUM_0 |
| | dlci | UART_DLCI_NOT_MULTIPLEXED |

| | | |
|----------------------|---|--------------------------------|
| (8) UART_DCD_REQ | device dlci UART_DLCI_NOT_MULTIPLEXED line_state | NUM_0 UART_LINE_OFF |
| (9) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (10) UART_DCD_CNF | device dlci UART_DLCI_NOT_MULTIPLEXED | NUM_0 |
| (11) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |

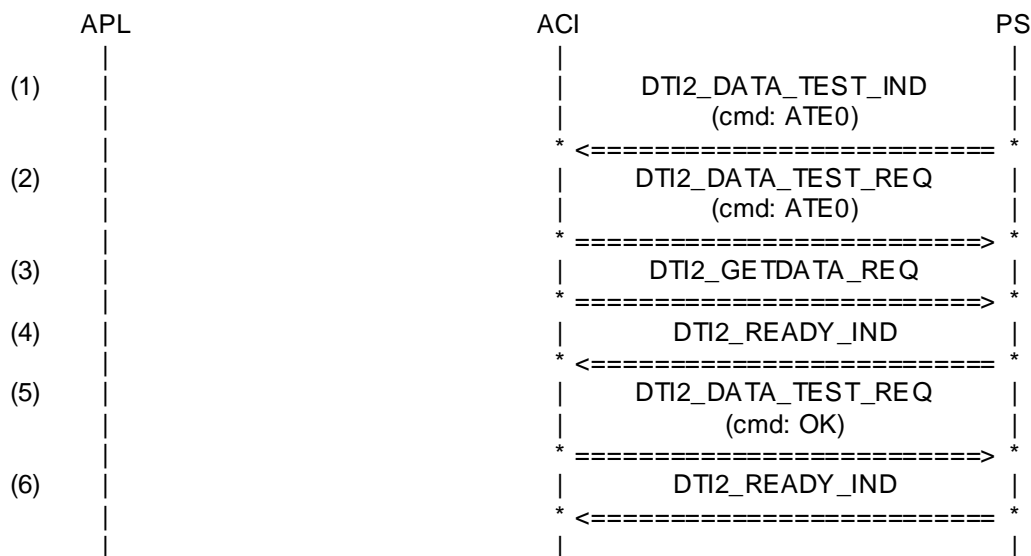
History: 15.02.01 Clb Initial
29.07.02 Tlu Adaptation to DTI2

4.1.3 ACIDTI002: Deactivate echoing

Description: receive the command: ATE0

Preamble:

ACIDTI001



Parametrization:

| Primitive | Parameter | Value |
|------------------------|------------------------------|--|
| (1) DTI2_DATA_TEST_IND | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_AT_E0 |
| (2) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_AT_E0 |
| (3) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |

| | | |
|------------------------|------------------------------|--|
| (4) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (5) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_OK |
| (6) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |

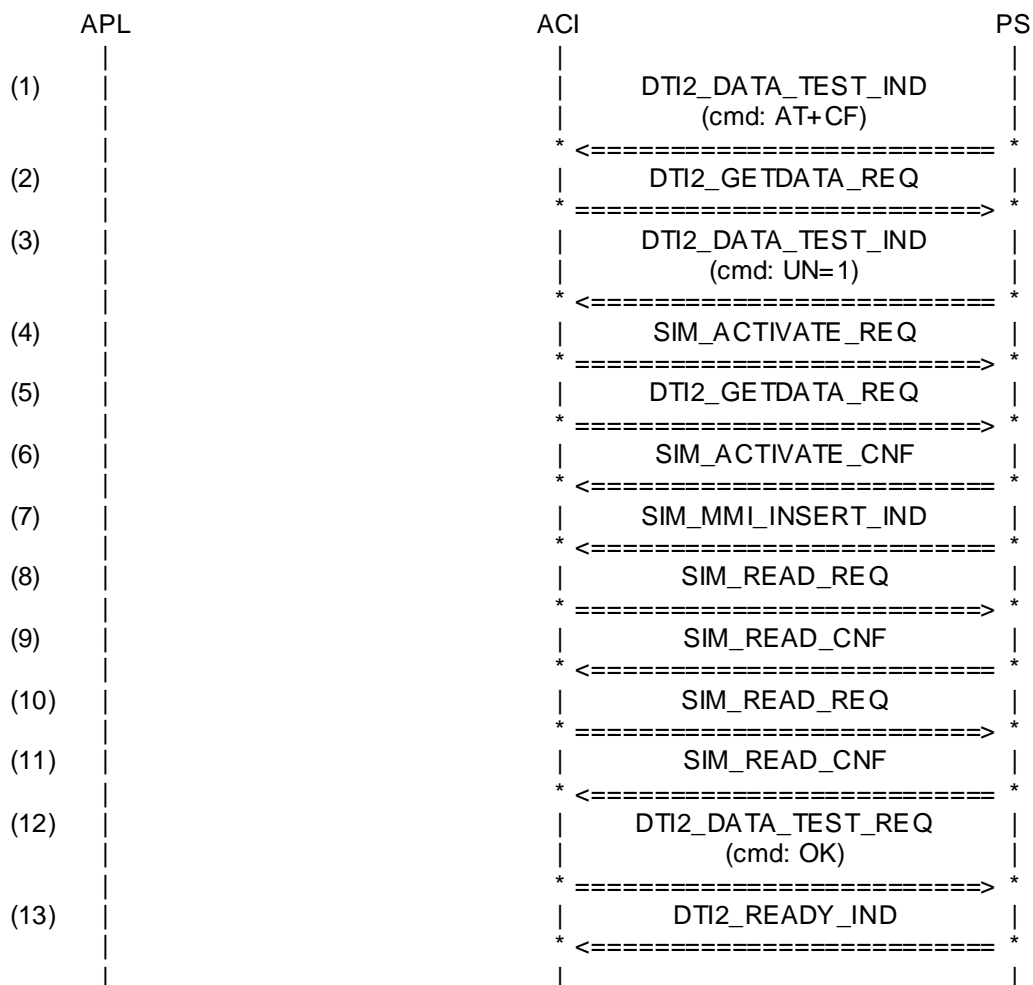
History: 15.02.01 Clb Initial
29.07.02 Tlu Adaptation to DTI2

4.2 Simple Command Handling

4.2.1 ACIDTI011: Receive a command

Description:
receive the command: AT+CFUN=1

Preamble:
ACIDTI002



Parametrization:

| Primitive | Parameter | Value |
|------------------------|--|--|
| (1) DTI2_DATA_TEST_IND | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_AT_CF |
| (2) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (3) DTI2_DATA_TEST_IND | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_AT_UN1 |
| (4) SIM_ACTIVATE_REQ | proc mmi_pro_file stk_pro_file | SIM_INITIALISATION NOT_USED NOT_USED |
| (5) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (6) SIM_ACTIVATE_CNF | cause pin_cnt puk_cnt pin2_cnt puk2_cnt ec_code pref_lang | SIM_NO_ERROR NUM_3 NUM_9 NUM_3 NUM_9 NOT_USED NOT_USED |
| (7) SIM_MMI_INSERT_IND | func sim_serv imsi_field pref_plmn phase access_acm access_acmmax access_puct | SIM_ADN_ENABLED NOT_USED NOT_USED NOT_USED PHASE_2_SIM NOT_USED NOT_USED NOT_USED |
| (8) SIM_READ_REQ | source offset datafield length max_length | SRC_MMI NUM_0 SIM_ECC NOT_PRESENT_8BIT NUM_0 |
| (9) SIM_READ_CNF | datafield cause length trans_data | SIM_ECC SIM_NO_ERROR NUM_12 A_ECC_FIELD |
| (10) SIM_READ_REQ | source offset datafield length max_length | SRC_MMI NUM_0 SIM_AD NOT_PRESENT_8BIT NUM_0 |
| (11) SIM_READ_CNF | datafield cause length trans_data A_AD_FIELD_CI_DISABLED | SIM_AD SIM_NO_ERROR NUM_4 |

| | | |
|-------------------------|------------------------------|--|
| (12) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_OK |
| (13) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |

History: 15.02.01 Clb Initial
29.07.02 Tlu Adaptation to DTI2

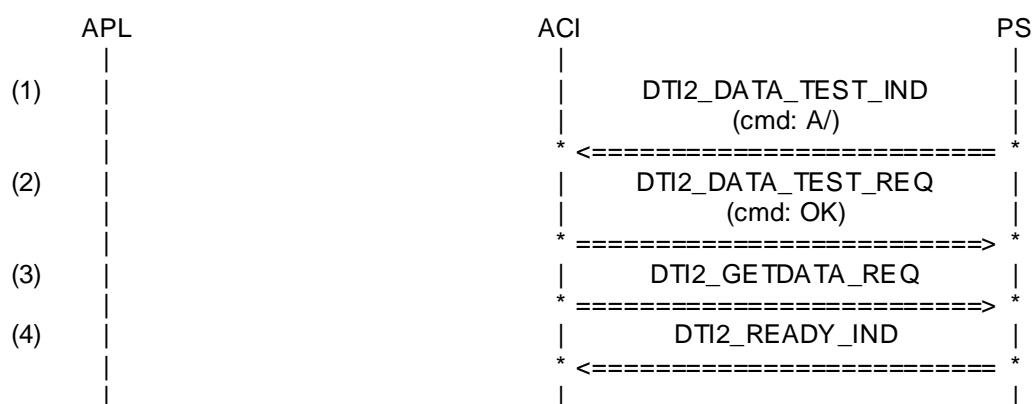
4.2.2 ACIDTI012: Repeat last command

Description:

receive the command: A/

Preamble:

ACIDTI011



Parametrization:

| Primitive | Parameter | Value |
|------------------------|------------------------------|--|
| (1) DTI2_DATA_TEST_IND | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_AT_REP |
| (2) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_OK |
| (3) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (4) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |

History: 15.02.01 Clb Initial
29.07.02 Tlu Adaptation to DTI2

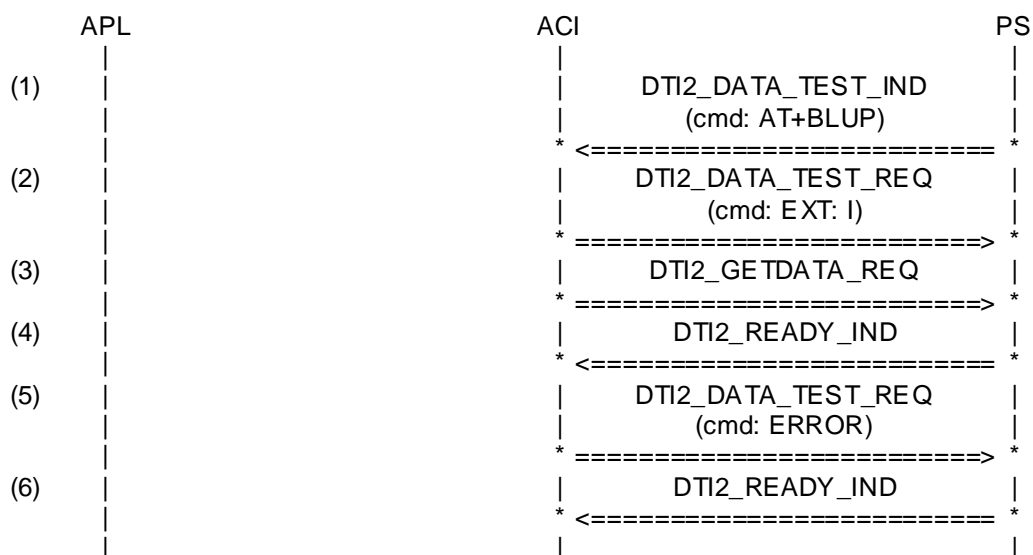
4.2.3 ACIDTI013: Receive wrong command.

Description:

receive the command: AT+BLUP

Preamble:

ACIDTI011



Parametrization:

| Primitive | Parameter | Value |
|------------------------|------------------------------|---|
| (1) DTI2_DATA_TEST_IND | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_AT_BLUP |
| (2) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_EXT_I |
| (3) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (4) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (5) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_ERROR |
| (6) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |

History: 15.02.01 Clb Initial
29.07.02 Tlu Adaptation to DTI2

4.3 Multiplexer Mode

4.3.1 ACIDTI021: Start multiplexer

Description:
test AT+CMUX

Preamble:
ACIDTI002

| APL | ACI | PS |
|------|---------------------------------------|----|
| (1) | DTI2_DATA_TEST_IND (cmd: AT+CMUX) | |
| (2) | DTI2_DATA_TEST_REQ (cmd: OK) | |
| (3) | DTI2_DISCONNECT_REQ | |
| (4) | UART_MUX_START_REQ | |
| (5) | UART_DTI_IND (UART_DISCONNECT_DTI) | |
| (6) | UART_MUX_DLC_ESTABLISH_IND | |
| (7) | UART_MUX_DLC_ESTABLISH_RES | |
| (8) | DTI2_CONNECT_REQ | |
| (9) | UART_DTI_REQ | |
| (10) | DTI2_CONNECT_CNF | |
| (11) | UART_DTI_CNF | |
| (12) | UART_DCD_REQ | |
| (13) | UART_DCD_CNF | |
| (14) | DTI2_GETDATA_REQ | |
| (15) | DTI2_READY_IND | |

Parametrization:

| Primitive | Parameter | Value |
|-------------------------|--|--|
| (1) DTI2_DATA_TEST_IND | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_AT_CMUX |
| (2) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_OK |
| (3) DTI2_DISCONNECT_REQ | link_id cause DTI_CAUSE_NORMAL_CLOSE | ACI_DTI_LINK_ID_1 |
| (4) UART_MUX_START_REQ | device mode UART_MUX_MODE_ADVANCED frame_type UART_MUX_FRAME_UIH n1 | NUM_0 |

| | | |
|--------------------------------|------------------------------|-------------------|
| | UART_MUX_N1_ADVANCED_DEFAULT | |
| | t1 | |
| | UART_MUX_T1_DEFAULT | |
| | n2 | |
| | UART_MUX_N2_DEFAULT | |
| | t2 | |
| | UART_MUX_T2_DEFAULT | |
| | t3 | |
| | UART_MUX_T3_DEFAULT | |
| (5) UART_DTI_IND | dti_conn | |
| | UART_DISCONNECT_DTI | |
| | device | NUM_0 |
| | dlci | |
| | UART_DLCI_NOT_MULTIPLEXED | |
| (6) UART_MUX_DLC_ESTABLISH_IND | device | NUM_0 |
| | dlci | NUM_1 |
| | convergence | |
| | UART_MUX_CONVERGENCE_DEFAULT | |
| | n1 | |
| | UART_MUX_N1_ADVANCED_DEFAULT | |
| | service | |
| | UART_MUX_SERVICE_AT | |
| (7) UART_MUX_DLC_ESTABLISH_RES | device | NUM_0 |
| | dlci | NUM_1 |
| | n1 | |
| | UART_MUX_N1_ADVANCED_DEFAULT | |
| (8) DTI2_CONNECT_REQ | link_id | ACI_DTI_LINK_ID_1 |
| | version | DTI_VERSION_10 |
| (9) UART_DTI_REQ | dti_conn | UART_CONNECT_DTI |
| | device | NUM_0 |
| | dlci | NUM_1 |
| | direction | NUM_0 |
| | link_id | ACI_DTI_LINK_ID_1 |
| | entity_name | NOT_USED |
| (10) DTI2_CONNECT_CNF | link_id | ACI_DTI_LINK_ID_1 |
| | version | DTI_VERSION_10 |
| (11) UART_DTI_CNF | dti_conn | UART_CONNECT_DTI |
| | device | NUM_0 |
| | dlci | NUM_1 |
| (12) UART_DCD_REQ | device | NUM_0 |
| | dlci | NUM_1 |
| | line_state | UART_LINE_OFF |
| (13) UART_DCD_CNF | device | NUM_0 |
| | dlci | NUM_1 |

| | | |
|-----------------------|---------|-------------------|
| (14) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (15) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |

History: 15.02.01 Clb Initial
29.07.02 Tlu Adaptation to DTI2

4.3.2 ACIDTI022: Start a second channel - multiplexer

Description:

Preamble: ACIDTI021

| APL | ACI | PS |
|------|----------------------------|----|
| (1) | UART_MUX_DLC_ESTABLISH_IND | |
| (2) | * <=====* | * |
| (3) | DTI2_CONNECT_REQ | |
| (4) | * =====>* | * |
| (5) | UART_DTI_REQ | |
| (6) | * =====>* | * |
| (7) | DTI2_CONNECT_CNF | |
| (8) | * <=====* | * |
| (9) | UART_DTI_CNF | |
| (10) | * <=====* | * |
| | UART_DCD_REQ | |
| | * =====>* | * |
| | UART_DCD_CNF | |
| | * <=====* | * |
| | DTI2_GETDATA_REQ | |
| | * =====>* | * |
| | DTI2_READY_IND | |
| | * <=====* | * |
| | | |

Parametrization:

| Primitive | Parameter | Value |
|--------------------------------|-------------|------------------------------|
| (1) UART_MUX_DLC_ESTABLISH_IND | device | NUM_0 |
| | dlci | NUM_2 |
| | convergence | UART_MUX_CONVERGENCE_DEFAULT |
| | n1 | UART_MUX_N1_ADVANCED_DEFAULT |
| | service | UART_MUX_SERVICE_AT |
| (2) UART_MUX_DLC_ESTABLISH_RES | device | NUM_0 |
| | dlci | NUM_2 |
| | n1 | UART_MUX_N1_ADVANCED_DEFAULT |

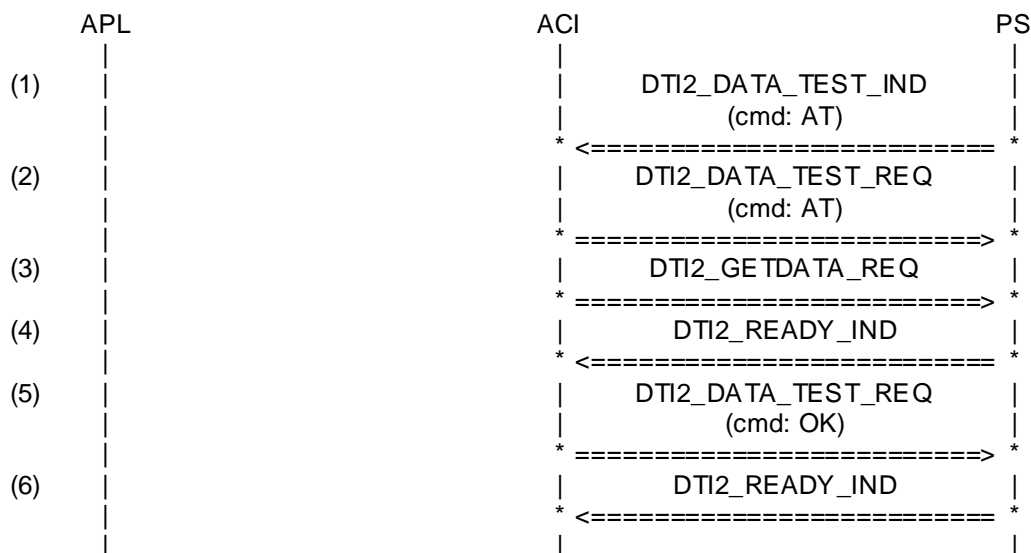
| | | |
|----------------------|---|--|
| (3) DTI2_CONNECT_REQ | link_id version | ACI_DTI_LINK_ID_2 DTI_VERSION_10 |
| (4) UART_DTI_REQ | dti_conn device dlci direction link_id entity_name | UART_CONNECT_DTI NUM_0 NUM_2 NUM_0 ACI_DTI_LINK_ID_2 NOT_USED |
| (5) DTI2_CONNECT_CNF | link_id version | ACI_DTI_LINK_ID_2 DTI_VERSION_10 |
| (6) UART_DTI_CNF | dti_conn device dlci | UART_CONNECT_DTI NUM_0 NUM_2 |
| (7) UART_DCD_REQ | device dlci line_state | NUM_0 NUM_2 UART_LINE_OFF |
| (8) UART_DCD_CNF | device dlci | NUM_0 NUM_2 |
| (9) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_2 |
| (10) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_2 |

History: 27.03.01 clb Initial
 29.07.02 Tlu Adaptation to DTI2

4.3.3 ACIDTI023: Send a command ("AT") on second channel

Description: Send a command ("AT") on the new multiplex channel.

Preamble: ACIDTI022



Parametrization:

| Primitive | Parameter | Value |
|------------------------|------------------------------|--|
| (1) DTI2_DATA_TEST_IND | link_id parameters sdu | ACI_DTI_LINK_ID_2 NOT_USED F_AT |
| (2) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_2 NOT_USED F_AT |
| (3) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_2 |
| (4) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_2 |
| (5) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_2 NOT_USED F_RESP_OK |
| (6) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_2 |

History: 27.03.01 clb Initial
29.07.02 Tlu Adaptation to DTI2

4.3.4 ACIDTI024: Try with AT+CFUN on the second channel

Description: Deactivate echoing before send an AT Command on the second channel.

Preamble: ACIDTI022

| APL | ACI | PS |
|------|------------------------------------|----|
| (1) | DTI2_DATA_TEST_IND (cmd: ATE0) | |
| (2) | DTI2_DATA_TEST_REQ (cmd: ATE0) | |
| (3) | DTI2_GETDATA_REQ | |
| (4) | DTI2_READY_IND | |
| (5) | DTI2_DATA_TEST_REQ (cmd: OK) | |
| (6) | DTI2_READY_IND | |
| (7) | DTI2_DATA_TEST_IND (cmd: AT+CF) | |
| (8) | DTI2_GETDATA_REQ | |
| (9) | DTI2_DATA_TEST_IND (cmd: UN=1) | |
| (10) | SIM_ACTIVATE_REQ | |
| (11) | DTI2_GETDATA_REQ | |
| (12) | SIM_ACTIVATE_CNF | |
| (13) | SIM_MMI_INSERT_IND | |
| (14) | SIM_READ_REQ | |
| (15) | SIM_READ_CNF | |
| (16) | DTI2_DATA_TEST_REQ (cmd: OK) | |
| (17) | DTI2_READY_IND | |

Parametrization:

| Primitive | Parameter | Value |
|------------------------|------------------------------|--|
| (1) DTI2_DATA_TEST_IND | link_id parameters sdu | ACI_DTI_LINK_ID_2 NOT_USED F_AT_E0 |
| (2) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_2 NOT_USED F_AT_E0 |
| (3) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_2 |

| | | |
|-------------------------|--|--|
| (4) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_2 |
| (5) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_2 NOT_USED F_RESP_OK |
| (6) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_2 |
| (7) DTI2_DATA_TEST_IND | link_id parameters sdu | ACI_DTI_LINK_ID_2 NOT_USED F_AT_CF |
| (8) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_2 |
| (9) DTI2_DATA_TEST_IND | link_id parameters sdu | ACI_DTI_LINK_ID_2 NOT_USED F_AT_UN1 |
| (10) SIM_ACTIVATE_REQ | proc mmi_pro_file stk_pro_file | SIM_INITIALISATION NOT_USED NOT_USED |
| (11) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_2 |
| (12) SIM_ACTIVATE_CNF | cause pin_cnt puk_cnt pin2_cnt puk2_cnt ec_code pref_lang | SIM_NO_ERROR NUM_3 NUM_9 NUM_3 NUM_9 NOT_USED NOT_USED |
| (13) SIM_MMI_INSERT_IND | func sim_serv imsi_field pref_plmn phase access_acm access_acmmax access_puct | SIM_ADN_ENABLED NOT_USED NOT_USED NOT_USED PHASE_2_SIM NOT_USED NOT_USED NOT_USED |
| (14) SIM_READ_REQ | source offset datafield length max_length | SRC_MMI NUM_0 SIM_ECC NOT_PRESENT_8BIT NUM_0 |
| (15) SIM_READ_CNF | datafield cause length trans_data | SIM_ECC SIM_NO_ERROR NUM_12 A_ECC_FIELD |
| (16) DTI2_DATA_TEST_REQ | link_id | ACI_DTI_LINK_ID_2 |

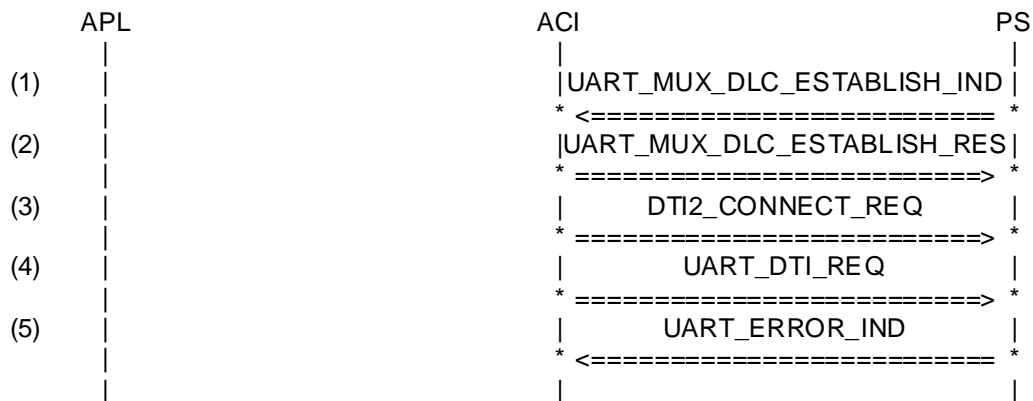
| | | |
|---------------------|------------|-------------------|
| | parameters | NOT_USED |
| | sdu | F_RESP_OK |
| (17) DTI2_READY_IND | | |
| | link_id | ACI_DTI_LINK_ID_2 |

History: 27.03.01 clb Initial
 29.07.02 Tlu Adaptation to DTI2

4.3.5 ACIDTI025: Try to start a second channel - get error when asking for a DTI channel

Description:

Preamble: ACIDTI021



Parametrization:

| Primitive | Parameter | Value |
|--------------------------------|------------------------------|-------------------|
| (1) UART_MUX_DLC_ESTABLISH_IND | device | NUM_0 |
| | dlci | NUM_2 |
| | convergence | |
| | UART_MUX_CONVERGENCE_DEFAULT | |
| | n1 | |
| | UART_MUX_N1_ADVANCED_DEFAULT | |
| | service | |
| | UART_MUX_SERVICE_AT | |
| (2) UART_MUX_DLC_ESTABLISH_RES | device | NUM_0 |
| | dlci | NUM_2 |
| | n1 | |
| | UART_MUX_N1_ADVANCED_DEFAULT | |
| (3) DTI2_CONNECT_REQ | link_id | ACI_DTI_LINK_ID_2 |
| | version | DTI_VERSION_10 |
| (4) UART_DTI_REQ | dti_conn | UART_CONNECT_DTI |
| | device | NUM_0 |

| | | |
|--------------------|-----------------------|-------------------|
| (5) UART_ERROR_IND | dlci | NUM_2 |
| | direction | NUM_0 |
| | link_id | ACI_DTI_LINK_ID_2 |
| | entity_name | NOT_USED |
| | device | NUM_0 |
| | dlci | NUM_2 |
| | error | |
| | UART_ERROR_NO_CHANNEL | |

| | | | |
|----------|----------|-----|--------------------|
| History: | 27.03.01 | clb | Initial |
| | 29.07.02 | Tlu | Adaptation to DTI2 |

4.3.6 ACIDTI026: Start multiplexer and 2 channels - get error

Description:
.test AT+CMUX

Preamble:
ACIDTI002

| APL | ACI | PS |
|------|---------------------------------------|----|
| (1) | DTI2_DATA_TEST_IND (cmd: AT+CMUX) | |
| (2) | DTI2_DATA_TEST_REQ (cmd: OK) | |
| (3) | DTI2_DISCONNECT_REQ | |
| (4) | UART_MUX_START_REQ | |
| (5) | UART_DTI_IND (UART_DISCONNECT_DTI) | |
| (6) | UART_MUX_DLC_ESTABLISH_IND | |
| (7) | UART_MUX_DLC_ESTABLISH_RES | |
| (8) | DTI2_CONNECT_REQ | |
| (9) | UART_DTI_REQ | |
| (10) | UART_ERROR_IND | |
| (11) | UART_MUX_DLC_ESTABLISH_IND | |
| (12) | UART_MUX_DLC_ESTABLISH_RES | |
| (13) | DTI2_CONNECT_REQ | |
| (14) | UART_DTI_REQ | |
| (15) | DTI2_CONNECT_CNF | |
| (16) | UART_DTI_CNF | |
| (17) | UART_DCD_REQ | |
| (18) | UART_DCD_CNF | |
| (19) | DTI2_GETDATA_REQ | |
| (20) | DTI2_READY_IND | |

Parametrization:

| Primitive | Parameter | Value |
|------------------------|------------------------------|--|
| (1) DTI2_DATA_TEST_IND | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_AT_CMUX |
| (2) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_OK |

| | | |
|--------------------------------|--|--|
| (3) DTI2_DISCONNECT_REQ | link_id cause DTI_CAUSE_NORMAL_CLOSE | ACI_DTI_LINK_ID_1 |
| (4) UART_MUX_START_REQ | device mode UART_MUX_MODE_ADVANCED frame_type UART_MUX_FRAME_UIH n1 UART_MUX_N1_ADVANCED_DEFAULT t1 UART_MUX_T1_DEFAULT n2 UART_MUX_N2_DEFAULT t2 UART_MUX_T2_DEFAULT t3 UART_MUX_T3_DEFAULT | NUM_0 |
| (5) UART_DTI_IND | dti_conn UART_DISCONNECT_DTI device dlci UART_DLCI_NOT_MULTIPLEXED | NUM_0 |
| (6) UART_MUX_DLC_ESTABLISH_IND | device dlci convergence UART_MUX_CONVERGENCE_DEFAULT n1 UART_MUX_N1_ADVANCED_DEFAULT service UART_MUX_SERVICE_AT | NUM_0 NUM_1 |
| (7) UART_MUX_DLC_ESTABLISH_RES | device dlci n1 UART_MUX_N1_ADVANCED_DEFAULT | NUM_0 NUM_1 |
| (8) DTI2_CONNECT_REQ | link_id version | ACI_DTI_LINK_ID_1 DTI_VERSION_10 |
| (9) UART_DTI_REQ | dti_conn device dlci direction link_id entity_name | UART_CONNECT_DTI NUM_0 NUM_1 NUM_0 ACI_DTI_LINK_ID_1 NOT_USED |
| (10) UART_ERROR_IND | device dlci error UART_ERROR_NO_CHANNEL | NUM_0 NUM_1 |

| | | | |
|---------------------------------|------------------------------|-------------------|--------------------|
| (11) UART_MUX_DLC_ESTABLISH_IND | device | NUM_0 | |
| | dlci | NUM_2 | |
| | convergence | | |
| | UART_MUX_CONVERGENCE_DEFAULT | | |
| | n1 | | |
| | UART_MUX_N1_ADVANCED_DEFAULT | | |
| | service | | |
| UART_MUX_SERVICE_AT | | | |
| (12) UART_MUX_DLC_ESTABLISH_RES | device | NUM_0 | |
| | dlci | NUM_2 | |
| | n1 | | |
| | UART_MUX_N1_ADVANCED_DEFAULT | | |
| (13) DTI2_CONNECT_REQ | link_id | ACI_DTI_LINK_ID_2 | |
| | version | DTI_VERSION_10 | |
| (14) UART_DTI_REQ | dti_conn | UART_CONNECT_DTI | |
| | device | NUM_0 | |
| | dlci | NUM_2 | |
| | direction | NUM_0 | |
| | link_id | ACI_DTI_LINK_ID_2 | |
| | entity_name | NOT_USED | |
| (15) DTI2_CONNECT_CNF | link_id | ACI_DTI_LINK_ID_2 | |
| | version | DTI_VERSION_10 | |
| (16) UART_DTI_CNF | dti_conn | UART_CONNECT_DTI | |
| | device | NUM_0 | |
| | dlci | NUM_2 | |
| (17) UART_DCD_REQ | device | NUM_0 | |
| | dlci | NUM_2 | |
| | line_state | UART_LINE_OFF | |
| (18) UART_DCD_CNF | device | NUM_0 | |
| | dlci | NUM_1 | |
| (19) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_2 | |
| (20) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_2 | |
| History: | 15.02.01 | Clb | Initial |
| | 30.07.02 | Tlu | Adaptation to DTI2 |

4.3.7 ACIDTI027: Close multiplexer

Description:

Preamble:
ACIDTI022

| APL | ACI | PS |
|------|---------------------|----|
| (1) | UART_MUX_CLOSE_IND | |
| (2) | UART_PARAMETERS_REQ | |
| (3) | UART_PARAMETERS_CNF | |
| (4) | DTI2_CONNECT_REQ | |
| (5) | UART_DTI_REQ | |
| (6) | DTI2_CONNECT_CNF | |
| (7) | UART_DTI_CNF | |
| (8) | UART_DCD_REQ | |
| (9) | UART_DCD_CNF | |
| (10) | DTI2_GETDATA_REQ | |
| (11) | DTI2_READY_IND | |

Parametrization:

| Primitive | Parameter | Value |
|-------------------------|-------------|---------------------------|
| (1) UART_MUX_CLOSE_IND | device | NUM_0 |
| (2) UART_PARAMETERS_REQ | device | NUM_0 |
| | comPar | NOT_USED |
| (3) UART_PARAMETERS_CNF | device | NUM_0 |
| (4) DTI2_CONNECT_REQ | link_id | ACI_DTI_LINK_ID_1 |
| | version | DTI_VERSION_10 |
| (5) UART_DTI_REQ | dti_conn | UART_CONNECT_DTI |
| | device | NUM_0 |
| | dlci | UART_DLCI_NOT_MULTIPLEXED |
| | direction | NUM_0 |
| | link_id | ACI_DTI_LINK_ID_1 |
| | entity_name | NOT_USED |
| (6) DTI2_CONNECT_CNF | link_id | ACI_DTI_LINK_ID_1 |
| | version | DTI_VERSION_10 |
| (7) UART_DTI_CNF | dti_conn | UART_CONNECT_DTI |
| | device | NUM_0 |
| | dlci | UART_DLCI_NOT_MULTIPLEXED |

| | | | |
|----------|------------------|---------------------------|--------------------|
| (8) | UART_DCD_REQ | device | NUM_0 |
| | | dlci | |
| | | UART_DLCI_NOT_MULTIPLEXED | |
| | | line_state | UART_LINE_OFF |
| (9) | UART_DCD_CNF | device | NUM_0 |
| | | dlci | |
| | | UART_DLCI_NOT_MULTIPLEXED | |
| (10) | DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (11) | DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| History: | 15.02.01 | Clb | Initial |
| | 30.07.02 | Tlu | Adaptation to DTI2 |

4.4 Transparent Data Transfer

4.4.1 ACIDTI031: Transparent Data call over DTI (part 1)

Description:

.test connect from DTI

Preamble:

ACIDTI002

| APL | ACI | PS |
|------|---|----|
| (1) | DTI2_DATA_TEST_IND (cmd: AT+CBST=71,0,0) | |
| (2) | MNCC_CONFIGURE_REQ | |
| (3) | DTI2_DATA_TEST_REQ (cmd: OK) | |
| (4) | DTI2_GETDATA_REQ | |
| (5) | DTI2_READY_IND | |
| (6) | DTI2_DATA_TEST_IND (cmd: ATD03039094444) | |
| (7) | MNCC_SETUP_REQ | |
| (8) | SIM_SYNC_REQ | |
| (9) | DTI2_GETDATA_REQ | |
| (10) | MNCC_CALL_PROCEED_IND | |
| (11) | MNCC_SYNC_IND | |
| (12) | MNCC_SETUP_CNF | |
| (13) | RA_ACTIVATE_REQ | |
| (14) | RA_ACTIVATE_CNF | |
| (15) | TRA_ACTIVATE_REQ | |
| (16) | TRA_ACTIVATE_CNF | |
| (17) | DTI2_DATA_TEST_REQ (cmd: CONNECT) | |
| (18) | DTI2_DISCONNECT_REQ | |
| (19) | UART_DTI_IND (UART_DISCONNECT_DTI) | |

Parametrization:

| Primitive | Parameter | Value |
|------------------------|------------------------------|--|
| (1) DTI2_DATA_TEST_IND | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_AT_CBST_TRA |
| (2) MNCC_CONFIGURE_REQ | called_party_sub bcpara | NOT_USED |

| | | |
|----------------------------|------------------------|-------------------|
| | S_BS_DAT_9600_ASY_TRA | |
| | sns_mode | SNS_MODE_VOICE |
| | ctm_ena | CTM_DISABLED |
| (3) DTI2_DATA_TEST_REQ | | |
| | link_id | ACI_DTI_LINK_ID_1 |
| | parameters | NOT_USED |
| | sdu | F_RESP_OK |
| (4) DTI2_GETDATA_REQ | | |
| | link_id | ACI_DTI_LINK_ID_1 |
| (5) DTI2_READY_IND | | |
| | link_id | ACI_DTI_LINK_ID_1 |
| (6) DTI2_DATA_TEST_IND | | |
| | link_id | ACI_DTI_LINK_ID_1 |
| | parameters | NOT_USED |
| | sdu | F_AT_D_DAT |
| (7) MNCC_SETUP_REQ | | |
| | ti | NUM_0 |
| | prio | PRIO_NORM_CALL |
| | ri | NOT_PRESENT_8BIT |
| | bcpara | |
| | S_BS_DAT_9600_ASY_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 |
| (8) SIM_SYNC_REQ | | |
| | synccs | SYNC_START_CALL |
| (9) DTI2_GETDATA_REQ | | |
| | link_id | ACI_DTI_LINK_ID_1 |
| (10) MNCC_CALL_PROCEED_IND | | |
| | ti | NUM_0 |
| | progress_desc | PROG_NOT_PRES |
| | ri | NOT_PRESENT_8BIT |
| | bcpara | |
| | S_BS_DAT_9600_ASY_TRA | |
| | bcpara2 | S_BS_NOT_PRESENT |
| (11) MNCC_SYNC_IND | | |
| | ti | NOT_PRESENT_8BIT |
| | cause | |
| | MNCC_CAUSE_NO_MS_CAUSE | |
| | chm | S_CHN_FULL_9600 |
| (12) 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 |
| (13) RA_ACTIVATE_REQ | | |
| | model | RA_MODEL_TRANS |
| | tra_rate | TRA_FULLRATE_9600 |
| | user_rate | URA_9600 |

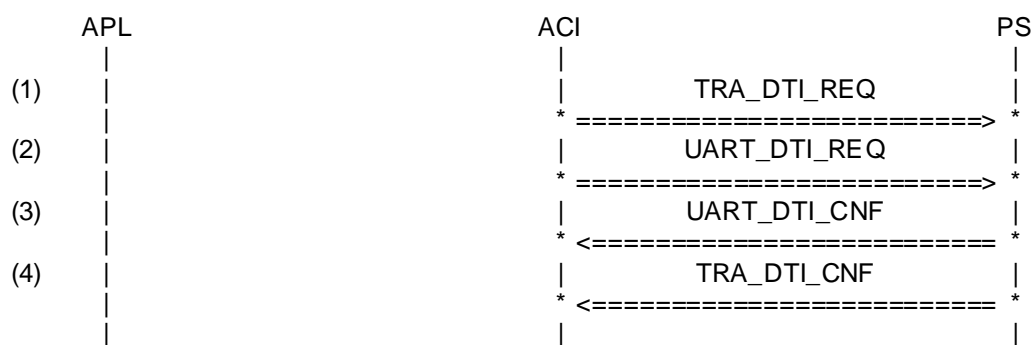
| | | |
|--------------------------|---------------------------|-------------------|
| | ndb | NUM_8 |
| | nsb | NOT_USED |
| (14) RA_ACTIVATE_CNF | ack_flg | RA_ACK |
| (15) TRA_ACTIVATE_REQ | | |
| (16) TRA_ACTIVATE_CNF | ack_flg | NOT_USED |
| (17) DTI2_DATA_TEST_REQ | link_id | ACI_DTI_LINK_ID_1 |
| | parameters | NOT_USED |
| | sdu | F_RESP_CONNECT |
| (18) DTI2_DISCONNECT_REQ | link_id | ACI_DTI_LINK_ID_1 |
| | cause | |
| | DTI_CAUSE_NORMAL_CLOSE | |
| (19) UART_DTI_IND | dti_conn | |
| | UART_DISCONNECT_DTI | |
| | device | NUM_0 |
| | dlci | |
| | UART_DLCI_NOT_MULTIPLEXED | |

History: 15.02.01 Clb Initial
30.07.02 Tlu Adaptation to DTI2

4.4.2 ACIDTI032: Transparent Data call over DTI (part 2)

Description:

Preamble: ACIDTI031



Parametrization:

| Primitive | Parameter | Value |
|------------------|---------------|-------------------|
| (1) TRA_DTI_REQ | dti_conn | TRA_CONNECT_DTI |
| | link_id | ACI_DTI_LINK_ID_1 |
| | entity_name | NOT_USED |
| | dti_direction | NOT_USED |
| (2) UART_DTI_REQ | dti_conn | UART_CONNECT_DTI |

| | | | |
|----------|--------------|---------------------------|--------------------|
| | | device | NUM_0 |
| | | dlci | |
| | | UART_DLCI_NOT_MULTIPLEXED | |
| | | direction | NUM_0 |
| | | link_id | ACI_DTI_LINK_ID_1 |
| | | entity_name | NOT_USED |
| (3) | UART_DTI_CNF | | |
| | | dti_conn | UART_CONNECT_DTI |
| | | device | NUM_0 |
| | | dlci | |
| | | UART_DLCI_NOT_MULTIPLEXED | |
| (4) | TRA_DTI_CNF | | |
| | | dti_conn | TRA_CONNECT_DTI |
| | | link_id | ACI_DTI_LINK_ID_1 |
| History: | 27.03.01 | CLB | Initial |
| | 30.07.02 | Tlu | Adaptation to DTI2 |

4.4.3 ACIDTI033: Network breaks communication - Disconnect Ind

Description:

Preamble: ACIDTI032

| APL | ACI | PS |
|------|---|----|
| (1) | MNCC_DISCONNECT_IND | |
| (2) | SIM_SYNC_REQ | |
| (3) | MNCC_RELEASE_CNF | |
| (4) | TRA_DTI_REQ | |
| (5) | TRA_DTI_CNF | |
| (6) | UART_DTI_IND (UART_DISCONNECT_DTI) | |
| (7) | TRA_DEACTIVATE_REQ | |
| (8) | DTI2_CONNECT_REQ | |
| (9) | UART_DTI_REQ | |
| (10) | TRA_DEACTIVATE_CNF | |
| (11) | UART_DCD_REQ | |
| (12) | UART_DCD_CNF | |
| (13) | RA_DEACTIVATE_REQ | |
| (14) | RA_DEACTIVATE_CNF | |
| (15) | DTI2_CONNECT_CNF | |
| (16) | UART_DTI_CNF | |
| (17) | DTI2_GETDATA_REQ | |
| (18) | DTI2_READY_IND | |
| (19) | DTI2_DATA_TEST_REQ (cmd: NO CARRIER) | |

Parametrization:

| Primitive | Parameter | Value |
|-------------------------|---|--|
| (1) MNCC_DISCONNECT_IND | ti cause MNCC_CAUSE_CALL_CLEAR diagnostic progress_desc | NUM_0 NOT_PRESENT_8BIT PROG_NOT_PRES |
| (2) SIM_SYNC_REQ | synccs | SYNC_STOP_CALL |
| (3) MNCC_RELEASE_CNF | ti cause | NOT_USED NOT_USED |

| | | |
|-------------------------|--|---|
| (4) TRA_DTI_REQ | dti_conn TRA_DISCONNECT_DTI link_id entity_name dti_direction | ACI_DTI_LINK_ID_1 NOT_USED NOT_USED |
| (5) TRA_DTI_CNF | dti_conn TRA_DISCONNECT_DTI link_id | ACI_DTI_LINK_ID_1 |
| (6) UART_DTI_IND | dti_conn UART_DISCONNECT_DTI device dlci UART_DLCI_NOT_MULTIPLEXED | NUM_0 |
| (7) TRA_DEACTIVATE_REQ | | |
| (8) DTI2_CONNECT_REQ | link_id version | ACI_DTI_LINK_ID_1 DTI_VERSION_10 |
| (9) UART_DTI_REQ | dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED direction link_id entity_name | UART_CONNECT_DTI NUM_0 NUM_0 ACI_DTI_LINK_ID_1 NOT_USED |
| (10) TRA_DEACTIVATE_CNF | | |
| (11) UART_DCD_REQ | device dlci UART_DLCI_NOT_MULTIPLEXED line_state | NUM_0 UART_LINE_OFF |
| (12) UART_DCD_CNF | device dlci UART_DLCI_NOT_MULTIPLEXED | NUM_0 |
| (13) RA_DEACTIVATE_REQ | | |
| (14) RA_DEACTIVATE_CNF | | |
| (15) DTI2_CONNECT_CNF | link_id version | ACI_DTI_LINK_ID_1 DTI_VERSION_10 |
| (16) UART_DTI_CNF | dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED | UART_CONNECT_DTI NUM_0 |
| (17) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (18) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |

(19) DTI2_DATA_TEST_REQ

link_id
parameters
sdu

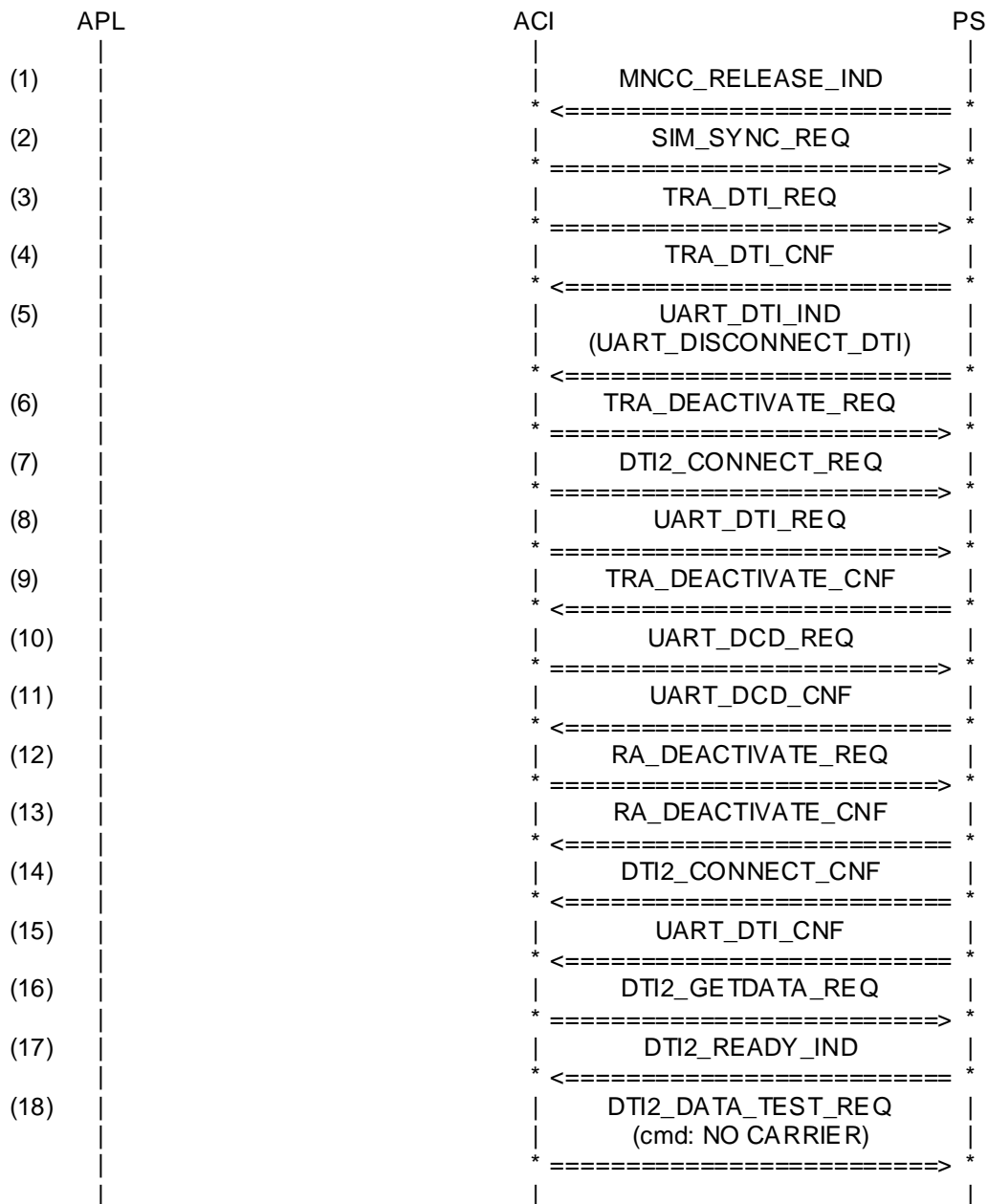
ACI_DTI_LINK_ID_1
NOT_USED
F_RESP_NO_CARRIER

| | | | |
|----------|----------|-----|--------------------|
| History: | 27.03.01 | clb | Initial |
| | 30.07.02 | Tlu | Adaptation to DTI2 |

4.4.4 ACIDTI034: Network breaks communication - Release Ind

Description:

Preamble: ACIDTI032



Parametrization:

| Primitive | Parameter | Value |
|----------------------|---|---|
| (1) MNCC_RELEASE_IND | ti cause MNCC_CAUSE_CALL_CLEAR | NUM_0 |
| (2) SIM_SYNC_REQ | synccs | SYNC_STOP_CALL |
| (3) TRA_DTI_REQ | dti_conn TRA_DISCONNECT_DTI link_id entity_name dti_direction | ACI_DTI_LINK_ID_1 NOT_USED NOT_USED |

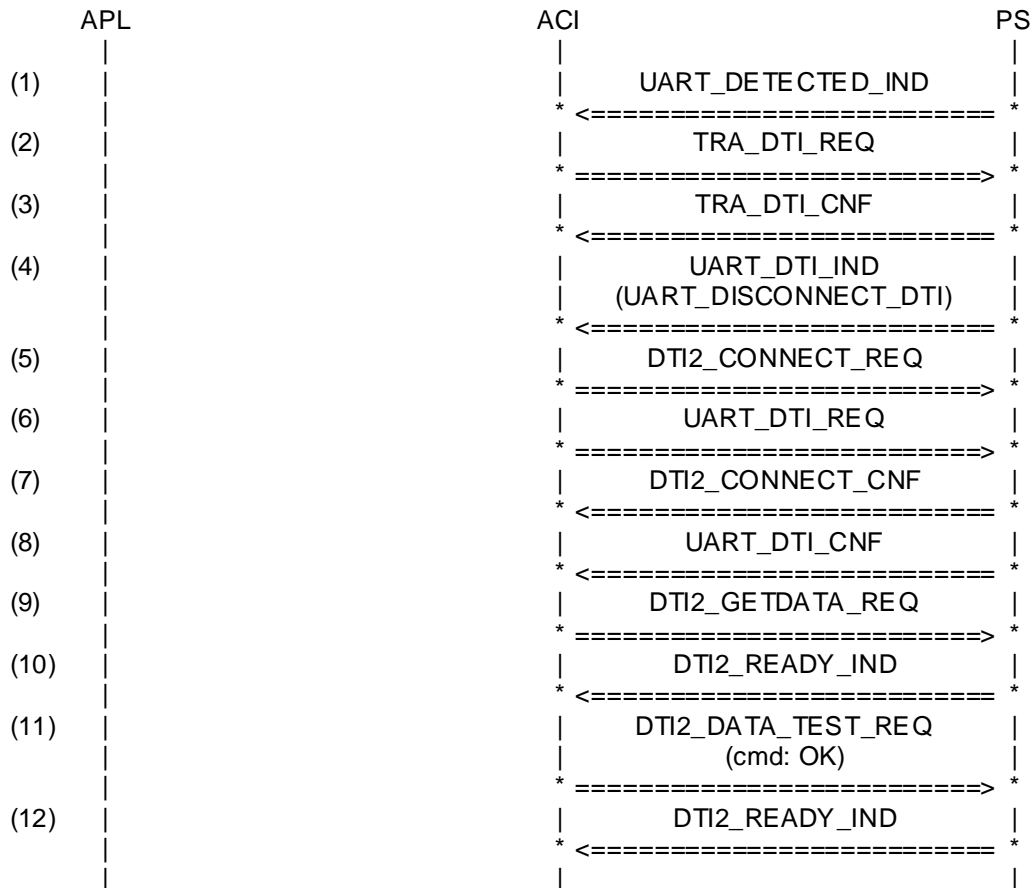
| | | |
|-------------------------|--|---|
| (4) TRA_DTI_CNF | dti_conn TRA_DISCONNECT_DTI link_id | ACI_DTI_LINK_ID_1 |
| (5) UART_DTI_IND | dti_conn UART_DISCONNECT_DTI device dlci UART_DLCI_NOT_MULTIPLEXED | NUM_0 |
| (6) TRA_DEACTIVATE_REQ | | |
| (7) DTI2_CONNECT_REQ | link_id version | ACI_DTI_LINK_ID_1 DTI_VERSION_10 |
| (8) UART_DTI_REQ | dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED direction link_id entity_name | UART_CONNECT_DTI NUM_0 NUM_0 ACI_DTI_LINK_ID_1 NOT_USED |
| (9) TRA_DEACTIVATE_CNF | | |
| (10) UART_DCD_REQ | device dlci UART_DLCI_NOT_MULTIPLEXED line_state | NUM_0 UART_LINE_OFF |
| (11) UART_DCD_CNF | device dlci UART_DLCI_NOT_MULTIPLEXED | NUM_0 |
| (12) RA_DEACTIVATE_REQ | | |
| (13) RA_DEACTIVATE_CNF | | |
| (14) DTI2_CONNECT_CNF | link_id version | ACI_DTI_LINK_ID_1 DTI_VERSION_10 |
| (15) UART_DTI_CNF | dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED | UART_CONNECT_DTI NUM_0 |
| (16) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (17) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (18) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_NO_CARRIER |

History: 27.03.01 clb Initial
29.07.02 Tlu Adaptation to DTI2

4.4.5 ACIDTI035: TRA gives channel back to ACI when an escape sequence detected

Description: escape sequence detected.

Preamble: ACIDTI032



Parametrization:

| Primitive | Parameter | Value |
|-----------------------|---------------------------|-------------------|
| (1) UART_DETECTED_IND | device | NUM_0 |
| | dlci | |
| | UART_DLCI_NOT_MULTIPLEXED | |
| | cause | UART_DETECT_ESC |
| (2) TRA_DTI_REQ | dti_conn | |
| | TRA_DISCONNECT_DTI | |
| | link_id | ACI_DTI_LINK_ID_1 |
| | entity_name | NOT_USED |
| | dti_direction | NOT_USED |

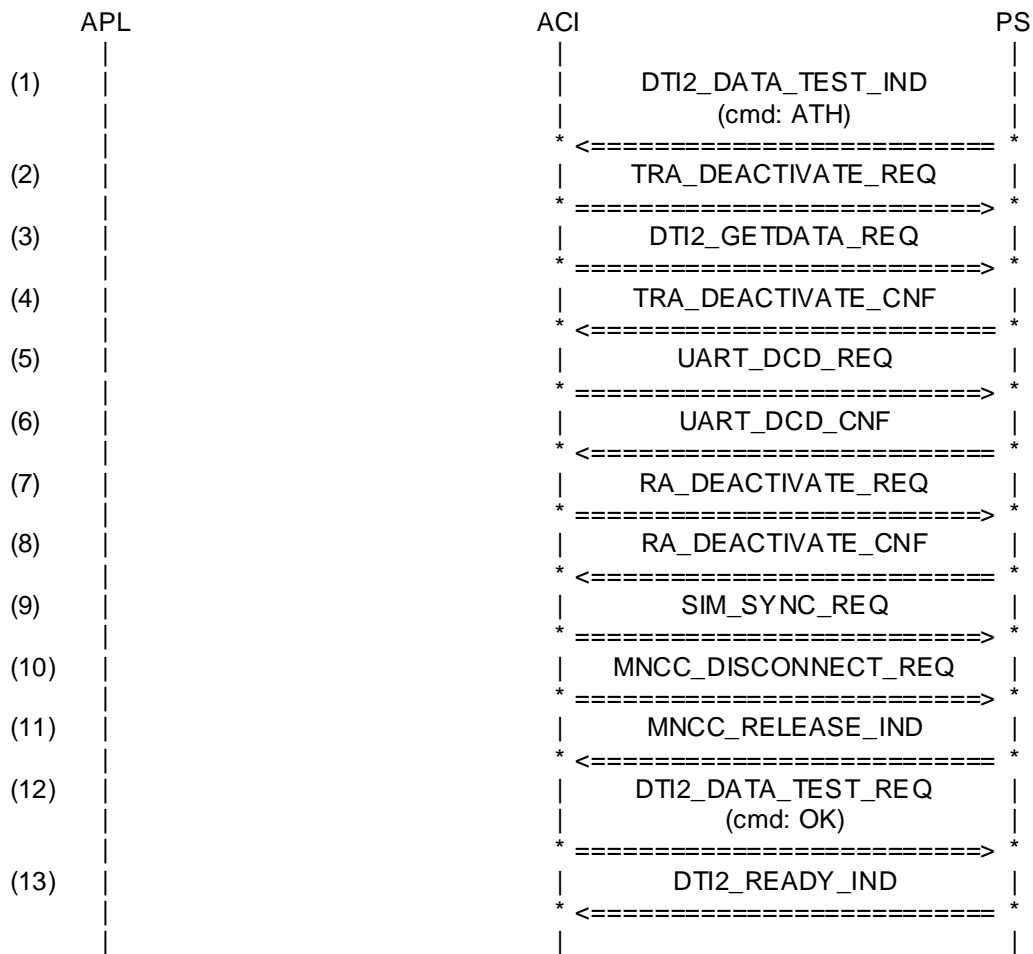
| | | |
|-------------------------|--|--|
| (3) TRA_DTI_CNF | dti_conn TRA_DISCONNECT_DTI link_id | ACI_DTI_LINK_ID_1 |
| (4) UART_DTI_IND | dti_conn UART_DISCONNECT_DTI device dlci UART_DLCI_NOT_MULTIPLEXED | NUM_0 |
| (5) DTI2_CONNECT_REQ | link_id version | ACI_DTI_LINK_ID_1 DTI_VERSION_10 |
| (6) UART_DTI_REQ | dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED direction link_id entity_name | UART_CONNECT_DTI NUM_0 ACI_DTI_LINK_ID_1 NOT_USED |
| (7) DTI2_CONNECT_CNF | link_id version | ACI_DTI_LINK_ID_1 DTI_VERSION_10 |
| (8) UART_DTI_CNF | dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED | UART_CONNECT_DTI NUM_0 |
| (9) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (10) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (11) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_OK |
| (12) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |

History: 27.03.01 clb Initial
 30.07.02 Tlu Adaptation to DTI2

4.4.6 ACIDTI036: User terminates call (ATH)

Description:

Preamble: ACIDTI035



Parametrization:

| Primitive | Parameter | Value |
|------------------------|---|---|
| (1) DTI2_DATA_TEST_IND | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_AT_H |
| (2) TRA_DEACTIVATE_REQ | | |
| (3) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (4) TRA_DEACTIVATE_CNF | | |
| (5) UART_DCD_REQ | device dlci UART_DLCI_NOT_MULTIPLEXED line_state | NUM_0 UART_LINE_OFF |
| (6) UART_DCD_CNF | device dlci UART_DLCI_NOT_MULTIPLEXED | NUM_0 |
| (7) RA_DEACTIVATE_REQ | | |
| (8) RA_DEACTIVATE_CNF | | |

| | | |
|--------------------------|---|--|
| (9) SIM_SYNC_REQ | synccs | SYNC_STOP_CALL |
| (10) MNCC_DISCONNECT_REQ | ti cause MNCC_CAUSE_CALL_CLEAR fac_inf ss_version | NUM_0 NOT_USED NOT_USED |
| (11) MNCC_RELEASE_IND | ti cause MNCC_CAUSE_CALL_CLEAR | NUM_0 |
| (12) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_OK |
| (13) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |

History: 27.03.01 clb Initial
 30.07.02 Tlu Adaptation to DTI2

4.4.7 ACIDTI037: Return to data mode (ATO)

Description:

Preamble: ACIDTI035

| APL | ACI | PS |
|-----|---------------------------------------|----|
| (1) | DTI2_DATA_TEST_IND (cmd: ATO) | |
| (2) | DTI2_DATA_TEST_REQ (cmd: CONNECT) | |
| (3) | DTI2_DISCONNECT_REQ | |
| (4) | UART_DTI_IND (UART_DISCONNECT_DTI) | |
| (5) | TRA_DTI_REQ | |
| (6) | UART_DTI_REQ | |
| (7) | TRA_DTI_CNF | |
| (8) | UART_DTI_CNF | |

Parametrization:

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

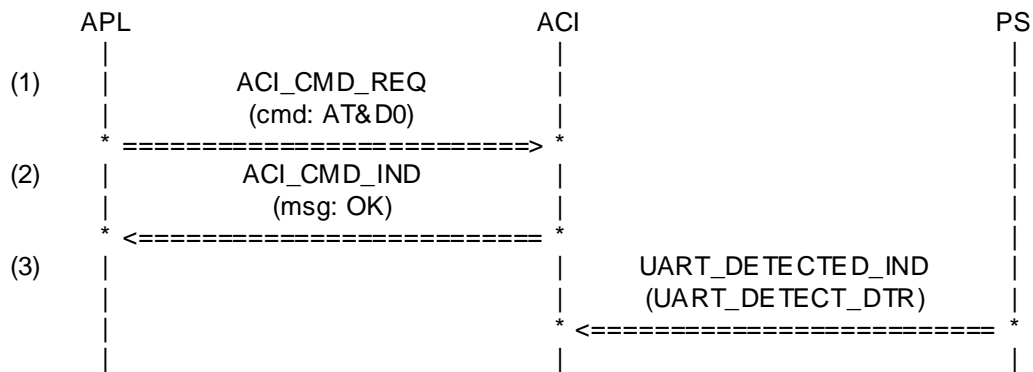
| | | |
|-------------------------|---------------------------|-------------------|
| (1) DTI2_DATA_TEST_IND | link_id | ACI_DTI_LINK_ID_1 |
| | parameters | NOT_USED |
| | sdu | F_AT_O |
| (2) DTI2_DATA_TEST_REQ | link_id | ACI_DTI_LINK_ID_1 |
| | parameters | NOT_USED |
| | sdu | F_RESP_CONNECT |
| (3) DTI2_DISCONNECT_REQ | link_id | ACI_DTI_LINK_ID_1 |
| | cause | |
| | DTI_CAUSE_NORMAL_CLOSE | |
| (4) UART_DTI_IND | dti_conn | |
| | UART_DISCONNECT_DTI | |
| | device | NUM_0 |
| | dlci | |
| | UART_DLCI_NOT_MULTIPLEXED | |
| (5) TRA_DTI_REQ | dti_conn | TRA_CONNECT_DTI |
| | link_id | ACI_DTI_LINK_ID_1 |
| | entity_name | NOT_USED |
| | dti_direction | NOT_USED |
| | | |
| (6) UART_DTI_REQ | dti_conn | UART_CONNECT_DTI |
| | device | NUM_0 |
| | dlci | |
| | UART_DLCI_NOT_MULTIPLEXED | |
| | direction | NUM_0 |
| | link_id | ACI_DTI_LINK_ID_1 |
| | entity_name | NOT_USED |
| | | |
| (7) TRA_DTI_CNF | dti_conn | TRA_CONNECT_DTI |
| | link_id | ACI_DTI_LINK_ID_1 |
| (8) UART_DTI_CNF | dti_conn | UART_CONNECT_DTI |
| | device | NUM_0 |
| | dlci | |
| | UART_DLCI_NOT_MULTIPLEXED | |
| | | |

History: 27.03.01 clb Initial
30.07.02 Tlu Adaptation to DTI2

4.4.8 ACIDTI038: DTR detected (AT&D0)

Description: DTR detected, when DTR behavior is set to 0 (DCE ignores DTR).

Preamble: ACIDTI032



Parametrization:

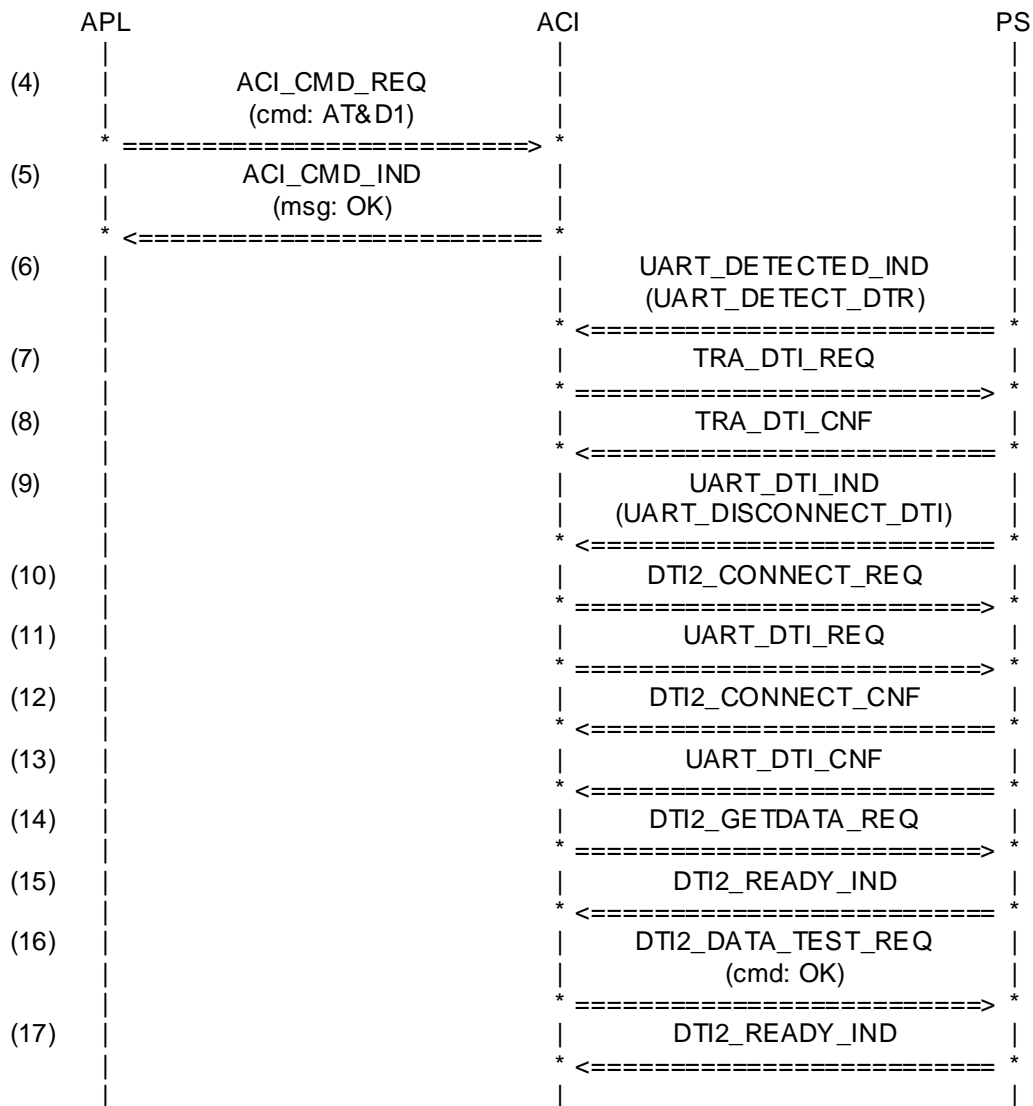
| Primitive | Parameter | Value |
|-----------------------|---------------------------|-----------------|
| (1) ACI_CMD_REQ | cmd_src | CMD_SRC_EXT |
| | cmd_len | LC_AND_D |
| | cmd_seq | C_AND_D0 |
| (2) ACI_CMD_IND | cmd_len | LM_OK |
| | cmd_seq | M_OK |
| (3) UART_DETECTED_IND | device | NUM_0 |
| | dlci | |
| | UART_DLCI_NOT_MULTIPLEXED | |
| | cause | UART_DETECT_DTR |

History: 30.07.02 Tlu Initial

4.4.9 ACIDTI039: DTR detected (AT&D1)

Description: DTR detected, when DTR behavior is set to 1 (on reception of DTR the DCE enters command state and issues an OK result code).

Preamble: ACIDTI032



Parametrization:

| Primitive | Parameter | Value |
|-----------------------|--|-------------------------------------|
| (1) ACI_CMD_REQ | cmd_src cmd_len cmd_seq | CMD_SRC_EXT LC_AND_D C_AND_D1 |
| (2) ACI_CMD_IND | cmd_len cmd_seq | LM_OK M_OK |
| (3) UART_DETECTED_IND | device dlci UART_DLCI_NOT_MULTIPLEXED cause | NUM_0 UART_DETECT_DTR |
| (4) TRA_DTI_REQ | dti_conn TRA_DISCONNECT_DTI link_id | ACI_DTI_LINK_ID_1 |

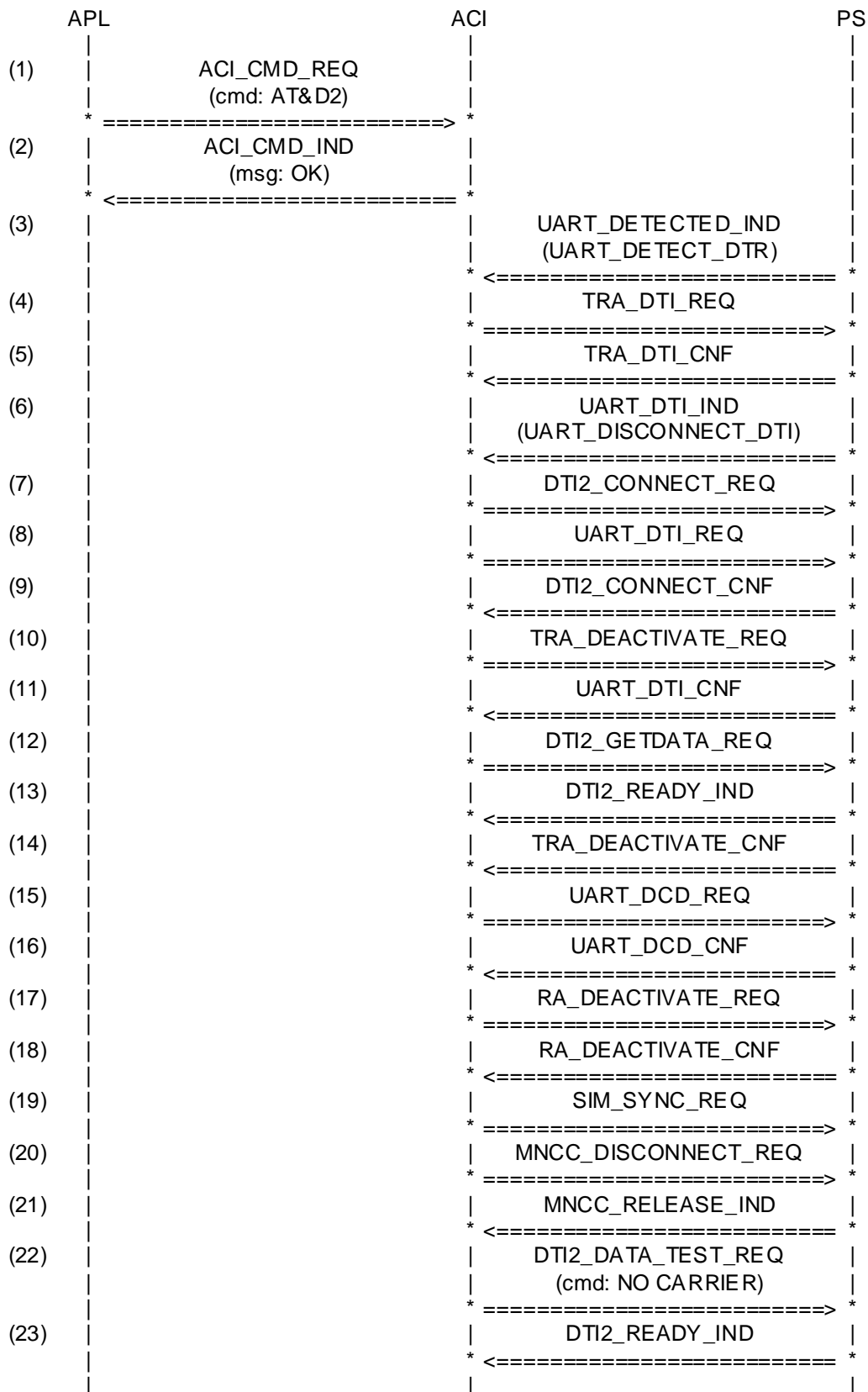
| | | |
|-------------------------|--|---|
| | entity_name | NOT_USED |
| | dti_direction | NOT_USED |
| (5) TRA_DTI_CNF | dti_conn TRA_DISCONNECT_DTI link_id | ACI_DTI_LINK_ID_1 |
| (6) UART_DTI_IND | dti_conn UART_DISCONNECT_DTI device dlci UART_DLCI_NOT_MULTIPLEXED | NUM_0 |
| (7) DTI2_CONNECT_REQ | link_id version | ACI_DTI_LINK_ID_1 DTI_VERSION_10 |
| (8) UART_DTI_REQ | dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED direction link_id entity_name | UART_CONNECT_DTI NUM_0 NUM_0 ACI_DTI_LINK_ID_1 NOT_USED |
| (9) DTI2_CONNECT_CNF | link_id version | ACI_DTI_LINK_ID_1 DTI_VERSION_10 |
| (10) UART_DTI_CNF | dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED | UART_CONNECT_DTI NUM_0 |
| (11) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (12) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (13) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_OK |
| (14) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |

History: 30.07.02 Tlu Initial

4.4.10 ACIDTI040: DTR detected (AT&D2)

Description: DTR detected, when DTR behavior is set to 2 (DCE performs a cleardown of the call (ATH)).

Preamble: ACIDTI032



Parametrization:

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

| | | |
|-------------------------|--|---|
| (1) ACI_CMD_REQ | cmd_src cmd_len cmd_seq | CMD_SRC_EXT LC_AND_D C_AND_D2 |
| (2) ACI_CMD_IND | cmd_len cmd_seq | LM_OK M_OK |
| (3) UART_DETECTED_IND | device dlci UART_DLCI_NOT_MULTIPLEXED cause | NUM_0 UART_DETECT_DTR |
| (4) TRA_DTI_REQ | dti_conn TRA_DISCONNECT_DTI link_id entity_name dti_direction | ACI_DTI_LINK_ID_1 NOT_USED NOT_USED |
| (5) TRA_DTI_CNF | dti_conn TRA_DISCONNECT_DTI link_id | ACI_DTI_LINK_ID_1 |
| (6) UART_DTI_IND | dti_conn UART_DISCONNECT_DTI device dlci UART_DLCI_NOT_MULTIPLEXED | NUM_0 |
| (7) DTI2_CONNECT_REQ | link_id version | ACI_DTI_LINK_ID_1 DTI_VERSION_10 |
| (8) UART_DTI_REQ | dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED direction link_id entity_name | UART_CONNECT_DTI NUM_0 NUM_0 ACI_DTI_LINK_ID_1 NOT_USED |
| (9) DTI2_CONNECT_CNF | link_id version | ACI_DTI_LINK_ID_1 DTI_VERSION_10 |
| (10) TRA_DEACTIVATE_REQ | | |
| (11) UART_DTI_CNF | dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED | UART_CONNECT_DTI NUM_0 |
| (12) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (13) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |

| | | | |
|------|---------------------|---|--|
| (14) | TRA_DEACTIVATE_CNF | | |
| (15) | UART_DCD_REQ | device dlci UART_DLCI_NOT_MULTIPLEXED line_state | NUM_0 UART_LINE_OFF |
| (16) | UART_DCD_CNF | device dlci UART_DLCI_NOT_MULTIPLEXED | NUM_0 |
| (17) | RA_DEACTIVATE_REQ | | |
| (18) | RA_DEACTIVATE_CNF | | |
| (19) | SIM_SYNC_REQ | | |
| (20) | MNCC_DISCONNECT_REQ | synccs | SYNC_STOP_CALL |
| (21) | MNCC_RELEASE_IND | ti cause MNCC_CAUSE_CALL_CLEAR fac_inf ss_version | NUM_0 NOT_USED NOT_USED |
| (22) | DTI2_DATA_TEST_REQ | ti cause MNCC_CAUSE_CALL_CLEAR | NUM_0 |
| (23) | DTI2_READY_IND | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_NO_CARRIER |
| | | link_id | ACI_DTI_LINK_ID_1 |

History: 30.07.02 Tlu Initial

4.4.11 ACIDTI041: Escape sequence detected and ATO (flush data from send queue)

Description: Escape sequence was detected. Close connection between ACI and UART (with ATO). Data ("CONNECT") is to be flushed from send queue when connection is closing.

Preamble: ACIDTI032

| APL | ACI | PS |
|------|---------------------------------------|----|
| (1) | UART_DETECTED_IND | |
| (2) | TRA_DTI_REQ | |
| (3) | TRA_DTI_CNF | |
| (4) | UART_DTI_IND (UART_DISCONNECT_DTI) | |
| (5) | DTI2_CONNECT_REQ | |
| (6) | UART_DTI_REQ | |
| (7) | DTI2_CONNECT_CNF | |
| (8) | UART_DTI_CNF | |
| (9) | DTI2_GETDATA_REQ | |
| (10) | DTI2_READY_IND | |
| (11) | DTI2_DATA_TEST_REQ (cmd: OK) | |
| (12) | DTI2_DATA_TEST_IND (cmd: ATO) | |
| (13) | DTI2_READY_IND | |
| (14) | DTI2_DATA_TEST_REQ (cmd: CONNECT) | |
| (15) | DTI2_DISCONNECT_REQ | |
| (16) | UART_DTI_IND (UART_DISCONNECT_DTI) | |
| (17) | TRA_DTI_REQ | |
| (18) | UART_DTI_REQ | |
| (19) | TRA_DTI_CNF | |
| (20) | UART_DTI_CNF | |

Parametrization:

| Primitive | Parameter | Value |
|-----------------------|---------------------------|-----------------|
| (1) UART_DETECTED_IND | device | NUM_0 |
| | dlci | |
| | UART_DLCI_NOT_MULTIPLEXED | |
| | cause | UART_DETECT_ESC |

| | | |
|-------------------------|---------------------------|-------------------|
| (2) TRA_DTI_REQ | dti_conn | |
| | TRA_DISCONNECT_DTI | |
| | link_id | ACI_DTI_LINK_ID_1 |
| | entity_name | NOT_USED |
| (3) TRA_DTI_CNF | dti_conn | |
| | TRA_DISCONNECT_DTI | |
| | link_id | ACI_DTI_LINK_ID_1 |
| | | |
| (4) UART_DTI_IND | dti_conn | |
| | UART_DISCONNECT_DTI | |
| | device | NUM_0 |
| | dlci | |
| (5) DTI2_CONNECT_REQ | UART_DLCI_NOT_MULTIPLEXED | |
| | link_id | ACI_DTI_LINK_ID_1 |
| | version | DTI_VERSION_10 |
| | | |
| (6) UART_DTI_REQ | dti_conn | UART_CONNECT_DTI |
| | device | NUM_0 |
| | dlci | |
| | UART_DLCI_NOT_MULTIPLEXED | |
| | direction | NUM_0 |
| | link_id | ACI_DTI_LINK_ID_1 |
| | entity_name | NOT_USED |
| (7) DTI2_CONNECT_CNF | link_id | ACI_DTI_LINK_ID_1 |
| | version | DTI_VERSION_10 |
| | | |
| (8) UART_DTI_CNF | dti_conn | UART_CONNECT_DTI |
| | device | NUM_0 |
| | dlci | |
| | UART_DLCI_NOT_MULTIPLEXED | |
| (9) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| | | |
| (10) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| | | |
| (11) DTI2_DATA_TEST_REQ | link_id | ACI_DTI_LINK_ID_1 |
| | parameters | NOT_USED |
| | sdu | F_RESP_OK |
| (12) DTI2_DATA_TEST_IND | link_id | ACI_DTI_LINK_ID_1 |
| | parameters | NOT_USED |
| | sdu | F_AT_O |
| | | |
| (13) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| | | |
| (14) DTI2_DATA_TEST_REQ | link_id | ACI_DTI_LINK_ID_1 |
| | parameters | NOT_USED |
| | sdu | F_RESP_CONNECT |
| | | |

| | | |
|--------------------------|--|---|
| (15) DTI2_DISCONNECT_REQ | link_id cause DTI_CAUSE_NORMAL_CLOSE | ACI_DTI_LINK_ID_1 |
| (16) UART_DTI_IND | dti_conn UART_DISCONNECT_DTI device dlci UART_DLCI_NOT_MULTIPLEXED | NUM_0 |
| (17) TRA_DTI_REQ | dti_conn link_id entity_name dti_direction | TRA_CONNECT_DTI ACI_DTI_LINK_ID_1 NOT_USED NOT_USED |
| (18) UART_DTI_REQ | dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED direction link_id entity_name | UART_CONNECT_DTI NUM_0 NUM_0 ACI_DTI_LINK_ID_1 NOT_USED |
| (19) TRA_DTI_CNF | dti_conn link_id | TRA_CONNECT_DTI ACI_DTI_LINK_ID_1 |
| (20) UART_DTI_CNF | dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED | UART_CONNECT_DTI NUM_0 |

History: 05.09.02 Tlu Initial

4.5 Non-Transparent Data Transfer

4.5.1 ACIDTI051: Non-Transparent Data call over DTI (part 1)

Description:
.test connect from DTI

Preamble:
ACIDTI002

| APL | ACI | PS |
|------|---|----|
| (1) | DTI2_DATA_TEST_IND (cmd: AT+CBST=71,0,1) | |
| (2) | MNCC_CONFIGURE_REQ | |
| (3) | DTI2_DATA_TEST_REQ (cmd: OK) | |
| (4) | DTI2_GETDATA_REQ | |
| (5) | DTI2_READY_IND | |
| (6) | DTI2_DATA_TEST_IND (cmd: ATD03039094444) | |
| (7) | MNCC_SETUP_REQ | |
| (8) | SIM_SYNC_REQ | |
| (9) | DTI2_GETDATA_REQ | |
| (10) | MNCC_CALL_PROCEED_IND | |
| (11) | MNCC_SYNC_IND | |
| (12) | MNCC_SETUP_CNF | |
| (13) | RA_ACTIVATE_REQ | |
| (14) | RA_ACTIVATE_CNF | |
| (15) | L2R_ACTIVATE_REQ | |
| (16) | L2R_XID_IND | |
| (17) | L2R_ACTIVATE_CNF | |
| (18) | L2R_CONNECT_REQ | |
| (19) | L2R_CONNECT_CNF | |
| (20) | DTI2_DATA_TEST_REQ (cmd: CONNECT) | |
| (21) | DTI2_DISCONNECT_REQ | |
| (22) | UART_DTI_IND (UART_DISCONNECT_DTI) | |

Parametrization:

| Primitive | Parameter | Value |
|------------------------|-----------|-------------------|
| (1) DTI2_DATA_TEST_IND | link_id | ACI_DTI_LINK_ID_1 |

| | | |
|----------------------------|---|---|
| | parameters sdu | NOT_USED F_AT_CBST_NONTRA |
| (2) MNCC_CONFIGURE_REQ | called_party_sub bcpara S_BS_DAT_9600_ASY_NON_TRA sns_mode ctm_ena | NOT_USED SNS_MODE_VOICE CTM_DISABLED |
| (3) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_OK |
| (4) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (5) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (6) DTI2_DATA_TEST_IND | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_AT_D_DAT |
| (7) MNCC_SETUP_REQ | ti prio ri bcpara S_BS_DAT_9600_ASY_NON_TRA bcpara2 called_party called_party_sub clir_sup fac_inf | NUM_0 PRIO_NORM_CALL NOT_PRESENT_8BIT S_BS_NOT_PRESENT S_CLD_PARTY S_CLD_PARTY_SUB NOT_PRESENT_8BIT NOT_USED |
| (8) SIM_SYNC_REQ | synccts | SYNC_START_CALL |
| (9) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (10) MNCC_CALL_PROCEED_IND | ti progress_desc ri bcpara S_BS_DAT_9600_ASY_NON_TRA bcpara2 | NUM_0 PROG_NOT_PRES NOT_PRESENT_8BIT S_BS_NOT_PRESENT |
| (11) MNCC_SYNC_IND | ti cause MNCC_CAUSE_NO_MS_CAUSE chm | NOT_PRESENT_8BIT S_CHN_FULL_9600 |
| (12) MNCC_SETUP_CNF | ti cause MNCC_CAUSE_SUCCESS progress_desc connected_number connected_number_sub | NUM_0 PROG_NOT_PRES S_CLG_PARTY S_CLG_PARTY_SUB |

| | | |
|--------------------------|---------------------------|-------------------|
| (13) RA_ACTIVATE_REQ | model | RA_MODEL_RLP |
| | tra_rate | TRA_FULLRATE_9600 |
| | user_rate | URA_9600 |
| | ndb | NUM_8 |
| | nsb | NOT_USED |
| (14) RA_ACTIVATE_CNF | ack_flg | RA_ACK |
| (15) 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 | NOT_USED |
| | p2 | NOT_USED |
| | uil2p | L2R_ISO6429 |
| | bytes_per_prim | NOT_USED |
| | buffer_size | NOT_USED |
| | rate | L2R_FULLRATE_9600 |
| (16) 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 |
| (17) L2R_ACTIVATE_CNF | ack_flg | L2R_ACK |
| (18) L2R_CONNECT_REQ | | |
| (19) L2R_CONNECT_CNF | ack_flg | L2R_ACK |
| (20) DTI2_DATA_TEST_REQ | link_id | ACI_DTI_LINK_ID_1 |
| | parameters | NOT_USED |
| | sdu | F_RESP_CONNECT |
| (21) DTI2_DISCONNECT_REQ | link_id | ACI_DTI_LINK_ID_1 |
| | cause | |
| | DTI_CAUSE_NORMAL_CLOSE | |
| (22) UART_DTI_IND | dti_conn | |
| | UART_DISCONNECT_DTI | |
| | device | NUM_0 |
| | dlci | |
| | UART_DLCI_NOT_MULTIPLEXED | |

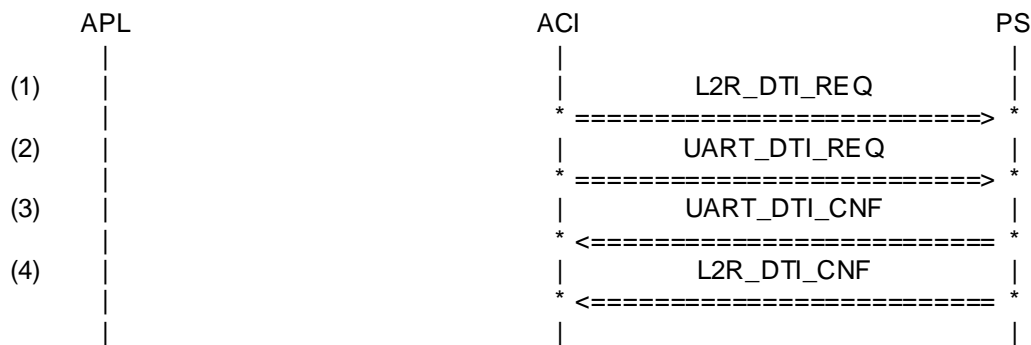
History: 15.02.01 Clb Initial
29.07.02 Tlu Adaptation to DTI2

4.5.2 ACIDTI052: Non-Transparent Data call over DTI (part 2)

Description:

Preamble:

ACIDTI051



Parametrization:

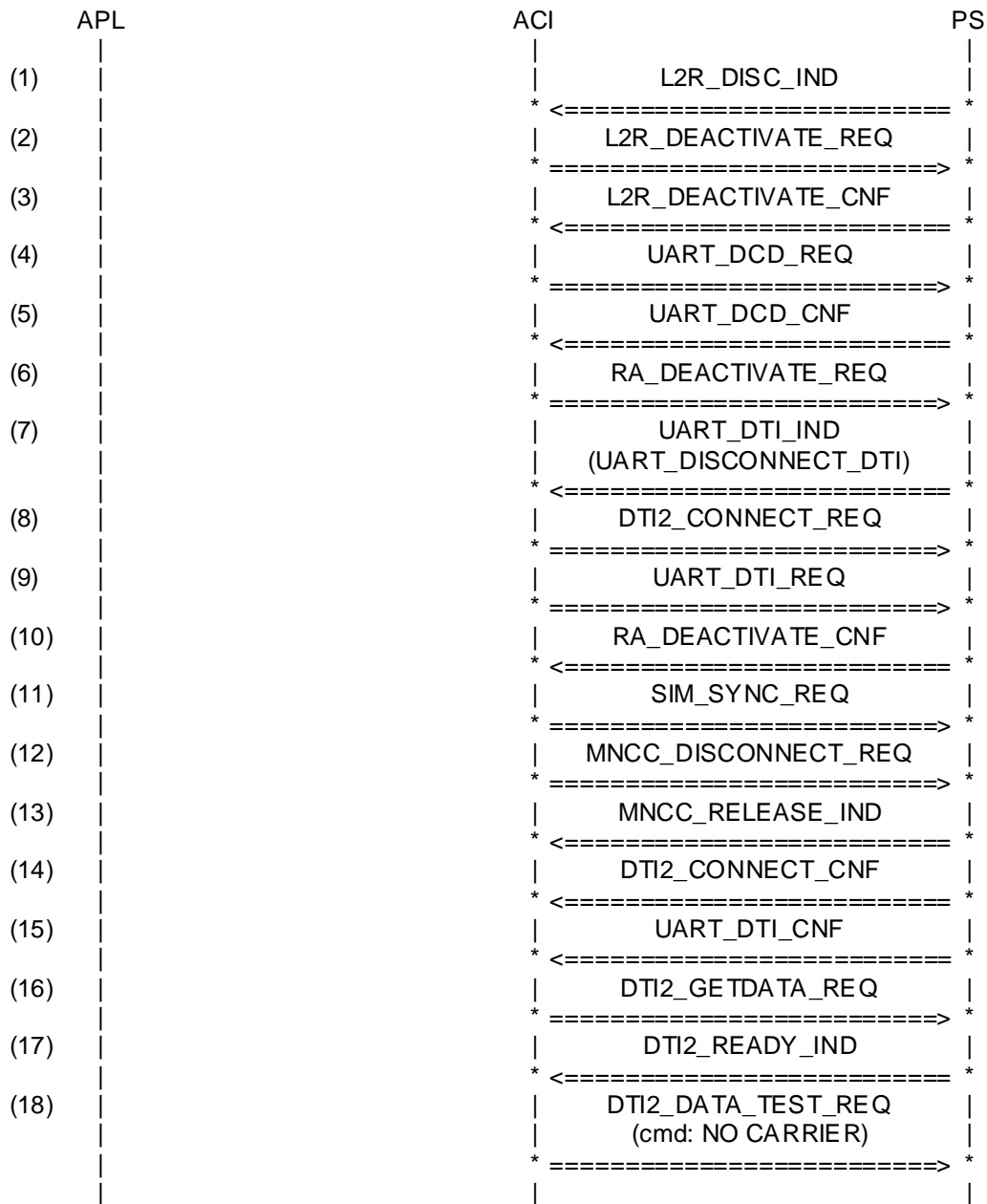
| Primitive | Parameter | Value |
|------------------|--|--|
| (1) L2R_DTI_REQ | dti_conn entity_name link_id dti_direction | L2R_CONNECT_DTI NOT_USED ACI_DTI_LINK_ID_1 L2R_DTI_INVERTED |
| (2) UART_DTI_REQ | dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED direction link_id entity_name | UART_CONNECT_DTI NUM_0 NUM_0 ACI_DTI_LINK_ID_1 NOT_USED |
| (3) UART_DTI_CNF | dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED | UART_CONNECT_DTI NUM_0 |
| (4) L2R_DTI_CNF | dti_conn link_id | L2R_CONNECT_DTI ACI_DTI_LINK_ID_1 |

History: 27.03.01 CLB Initial
29.07.02 Tlu Adaptation to DTI2

4.5.3 ACIDTI053: L2R breaks communication

Description:

Preamble: ACIDTI052



Parametrization:

| Primitive | Parameter | Value |
|------------------------|-----------|-------|
| (1) L2R_DISC_IND | | |
| (2) L2R_DEACTIVATE_REQ | | |
| (3) L2R_DEACTIVATE_CNF | | |

| | | |
|--------------------------|--|---|
| (4) UART_DCD_REQ | device dlci UART_DLCI_NOT_MULTIPLEXED line_state | NUM_0 UART_LINE_OFF |
| (5) UART_DCD_CNF | device dlci UART_DLCI_NOT_MULTIPLEXED | NUM_0 |
| (6) RA_DEACTIVATE_REQ | | |
| (7) UART_DTI_IND | dti_conn UART_DISCONNECT_DTI device dlci UART_DLCI_NOT_MULTIPLEXED | NUM_0 |
| (8) DTI2_CONNECT_REQ | link_id version | ACI_DTI_LINK_ID_1 DTI_VERSION_10 |
| (9) UART_DTI_REQ | dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED direction link_id entity_name | UART_CONNECT_DTI NUM_0 NUM_0 ACI_DTI_LINK_ID_1 NOT_USED |
| (10) RA_DEACTIVATE_CNF | | |
| (11) SIM_SYNC_REQ | synccs | SYNC_STOP_CALL |
| (12) MNCC_DISCONNECT_REQ | ti cause MNCC_CAUSE_CALL_CLEAR fac_inf ss_version | NUM_0 NOT_USED NOT_USED |
| (13) MNCC_RELEASE_IND | ti cause MNCC_CAUSE_CALL_CLEAR | NUM_0 |
| (14) DTI2_CONNECT_CNF | link_id version | ACI_DTI_LINK_ID_1 DTI_VERSION_10 |
| (15) UART_DTI_CNF | dti_conn device dlci | UART_CONNECT_DTI NUM_0 NUM_0 |
| (16) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (17) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |

(18) DTI2_DATA_TEST_REQ

link_id
parameters
sdu

ACI_DTI_LINK_ID_1
NOT_USED
F_RESP_NO_CARRIER

| | | | |
|----------|----------|-----|--------------------|
| History: | 27.03.01 | clb | Initial |
| | 29.07.02 | Tlu | Adaptation to DTI2 |

4.5.4 ACIDTI054: Network breaks communication - Disconnect Ind

Description:

Preamble: ACIDTI052

| APL | ACI | PS |
|------|---|----|
| (1) | MNCC_DISCONNECT_IND | |
| (2) | SIM_SYNC_REQ | |
| (3) | MNCC_RELEASE_CNF | |
| (4) | L2R_DTI_REQ | |
| (5) | L2R_DTI_CNF | |
| (6) | L2R_DEACTIVATE_REQ | |
| (7) | UART_DTI_IND (UART_DISCONNECT_DTI) | |
| (8) | DTI2_CONNECT_REQ | |
| (9) | UART_DTI_REQ | |
| (10) | L2R_DEACTIVATE_CNF | |
| (11) | UART_DCD_REQ | |
| (12) | UART_DCD_CNF | |
| (13) | RA_DEACTIVATE_REQ | |
| (14) | RA_DEACTIVATE_CNF | |
| (15) | DTI2_CONNECT_CNF | |
| (16) | UART_DTI_CNF | |
| (17) | DTI2_GETDATA_REQ | |
| (18) | DTI2_READY_IND | |
| (19) | DTI2_DATA_TEST_REQ (cmd: NO CARRIER) | |

Parametrization:

| Primitive | Parameter | Value |
|-------------------------|---|--|
| (1) MNCC_DISCONNECT_IND | ti cause MNCC_CAUSE_CALL_CLEAR diagnostic progress_desc | NUM_0 NOT_PRESENT_8BIT PROG_NOT_PRES |
| (2) SIM_SYNC_REQ | synccs | SYNC_STOP_CALL |
| (3) MNCC_RELEASE_CNF | ti cause | NOT_USED NOT_USED |

| | | |
|-------------------------|--|---|
| (4) L2R_DTI_REQ | dti_conn entity_name link_id dti_direction | L2R_DISCONNECT_DTI NOT_USED ACI_DTI_LINK_ID_1 L2R_DTI_NORMAL |
| (5) L2R_DTI_CNF | dti_conn link_id | L2R_DISCONNECT_DTI ACI_DTI_LINK_ID_1 |
| (6) L2R_DEACTIVATE_REQ | | |
| (7) UART_DTI_IND | dti_conn UART_DISCONNECT_DTI device dlci UART_DLCI_NOT_MULTIPLEXED | NUM_0 |
| (8) DTI2_CONNECT_REQ | link_id version | ACI_DTI_LINK_ID_1 DTI_VERSION_10 |
| (9) UART_DTI_REQ | dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED direction link_id entity_name | UART_CONNECT_DTI NUM_0 NUM_0 ACI_DTI_LINK_ID_1 NOT_USED |
| (10) L2R_DEACTIVATE_CNF | | |
| (11) UART_DCD_REQ | device dlci UART_DLCI_NOT_MULTIPLEXED line_state | NUM_0 UART_LINE_OFF |
| (12) UART_DCD_CNF | device dlci UART_DLCI_NOT_MULTIPLEXED | NUM_0 |
| (13) RA_DEACTIVATE_REQ | | |
| (14) RA_DEACTIVATE_CNF | | |
| (15) DTI2_CONNECT_CNF | link_id version | ACI_DTI_LINK_ID_1 DTI_VERSION_10 |
| (16) UART_DTI_CNF | dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED | UART_CONNECT_DTI NUM_0 |
| (17) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (18) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |

(19) DTI2_DATA_TEST_REQ

link_id
parameters
sdu

ACI_DTI_LINK_ID_1
NOT_USED
F_RESP_NO_CARRIER

History: 27.03.01 clb Initial
29.07.02 Tlu Adaptation to DTI2

4.5.5 ACIDTI055: Network breaks communication - Release Ind

Description:

Preamble: ACIDTI052

| APL | ACI | PS |
|------|---|----|
| (1) | MNCC_RELEASE_IND | |
| (2) | SIM_SYNC_REQ | |
| (3) | L2R_DTI_REQ | |
| (4) | L2R_DTI_CNF | |
| (5) | L2R_DEACTIVATE_REQ | |
| (6) | L2R_DEACTIVATE_CNF | |
| (7) | UART_DCD_REQ | |
| (8) | UART_DCD_CNF | |
| (9) | RA_DEACTIVATE_REQ | |
| (10) | UART_DTI_IND (UART_DISCONNECT_DTI) | |
| (11) | DTI2_CONNECT_REQ | |
| (12) | UART_DTI_REQ | |
| (13) | RA_DEACTIVATE_CNF | |
| (14) | DTI2_CONNECT_CNF | |
| (15) | UART_DTI_CNF | |
| (16) | DTI2_GETDATA_REQ | |
| (17) | DTI2_READY_IND | |
| (18) | DTI2_DATA_TEST_REQ (cmd: NO CARRIER) | |

Parametrization:

| Primitive | Parameter | Value |
|------------------------|--|---|
| (1) MNCC_RELEASE_IND | ti cause MNCC_CAUSE_CALL_CLEAR | NUM_0 |
| (2) SIM_SYNC_REQ | synccs | SYNC_STOP_CALL |
| (3) L2R_DTI_REQ | dti_conn entity_name link_id dti_direction | L2R_DISCONNECT_DTI NOT_USED ACI_DTI_LINK_ID_1 L2R_DTI_NORMAL |
| (4) L2R_DTI_CNF | dti_conn link_id | L2R_DISCONNECT_DTI ACI_DTI_LINK_ID_1 |
| (5) L2R_DEACTIVATE_REQ | | |
| (6) L2R_DEACTIVATE_CNF | | |
| (7) UART_DCD_REQ | device dlci UART_DLCI_NOT_MULTIPLEXED line_state | NUM_0 UART_LINE_OFF |
| (8) UART_DCD_CNF | device dlci UART_DLCI_NOT_MULTIPLEXED | NUM_0 |
| (9) RA_DEACTIVATE_REQ | | |
| (10) UART_DTI_IND | dti_conn UART_DISCONNECT_DTI device dlci UART_DLCI_NOT_MULTIPLEXED | NUM_0 |
| (11) DTI2_CONNECT_REQ | link_id version | ACI_DTI_LINK_ID_1 DTI_VERSION_10 |
| (12) UART_DTI_REQ | dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED direction link_id entity_name | UART_CONNECT_DTI NUM_0 NUM_0 ACI_DTI_LINK_ID_1 NOT_USED |
| (13) RA_DEACTIVATE_CNF | | |
| (14) DTI2_CONNECT_CNF | link_id version | ACI_DTI_LINK_ID_1 DTI_VERSION_10 |

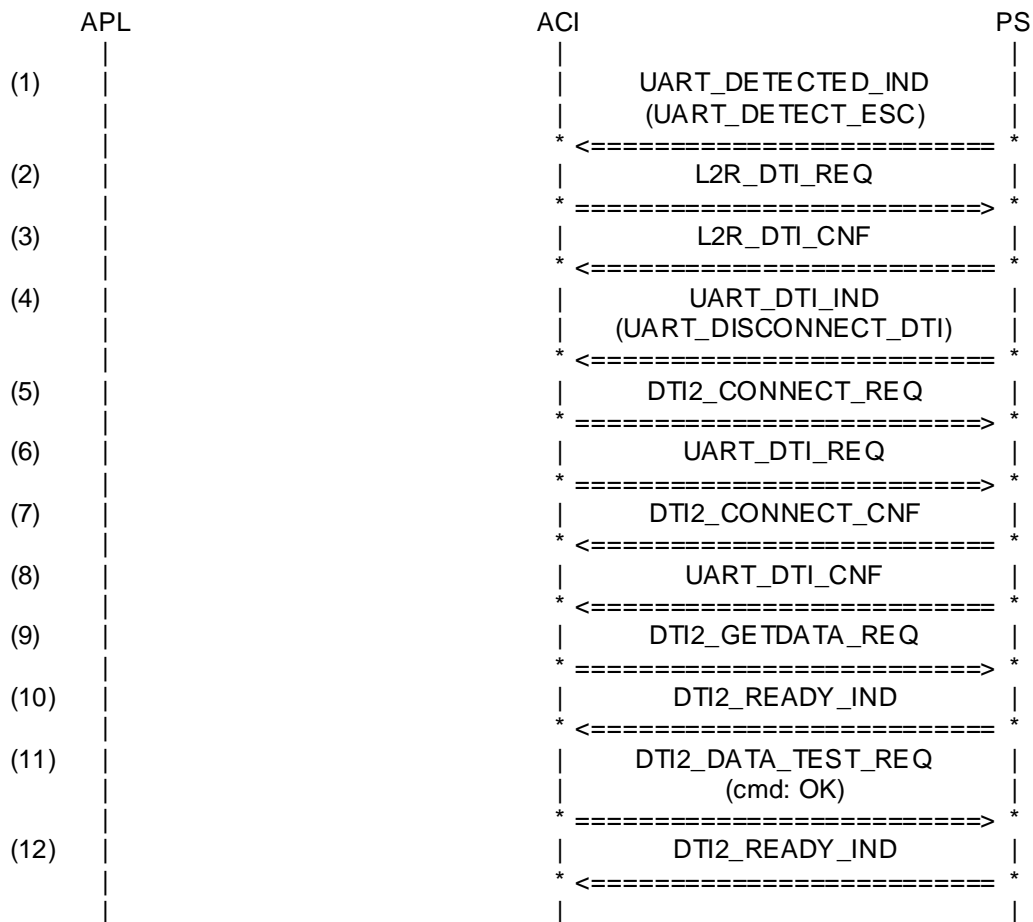
| | | |
|-------------------------|---|--|
| (15) UART_DTI_CNF | dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED | UART_CONNECT_DTI NUM_0 |
| (16) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (17) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (18) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_NO_CARRIER |

| | | | |
|----------|----------|-----|--------------------|
| History: | 27.03.01 | clb | Initial |
| | 29.07.02 | Tlu | Adaptation to DTI2 |

4.5.6 ACIDTI056: LR2 gives channel back to ACI when an escape sequence detected

Description: escape sequence detected.

Preamble: ACIDTI052



Parametrization:

| Primitive | Parameter | Value |
|-----------------------|--|---|
| (1) UART_DETECTED_IND | device dlci UART_DLCI_NOT_MULTIPLEXED cause | NUM_0 UART_DETECT_ESC |
| (2) L2R_DTI_REQ | dti_conn entity_name link_id dti_direction | L2R_DISCONNECT_DTI NOT_USED ACI_DTI_LINK_ID_1 NOT_USED |
| (3) L2R_DTI_CNF | dti_conn link_id | L2R_DISCONNECT_DTI ACI_DTI_LINK_ID_1 |
| (4) UART_DTI_IND | dti_conn UART_DISCONNECT_DTI device dlci UART_DLCI_NOT_MULTIPLEXED | NUM_0 |
| (5) DTI2_CONNECT_REQ | link_id version | ACI_DTI_LINK_ID_1 DTI_VERSION_10 |

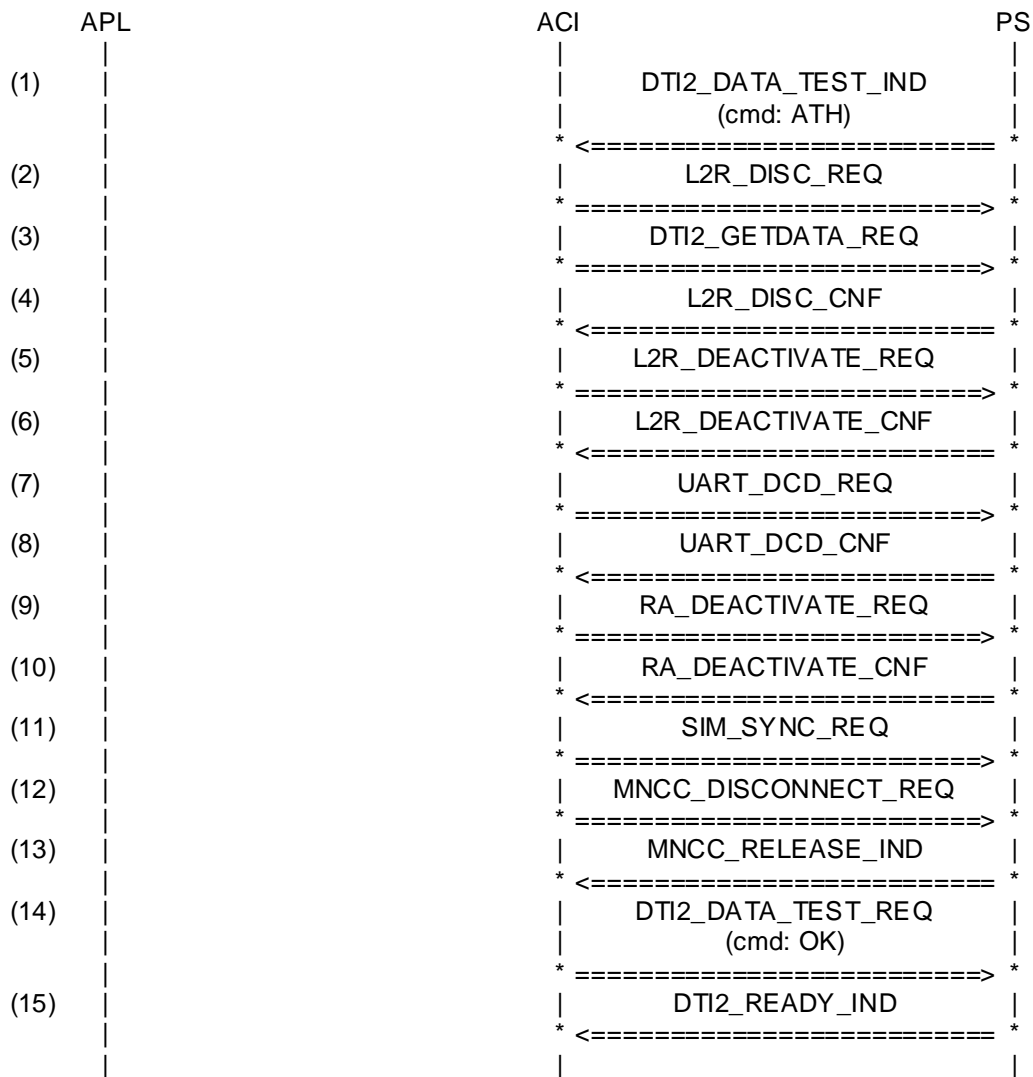
| | | |
|-------------------------|---------------------------|-------------------|
| (6) UART_DTI_REQ | dti_conn | UART_CONNECT_DTI |
| | device | NUM_0 |
| | dlci | |
| | UART_DLCI_NOT_MULTIPLEXED | |
| | direction | NUM_0 |
| | link_id | ACI_DTI_LINK_ID_1 |
| (7) DTI2_CONNECT_CNF | entity_name | NOT_USED |
| | link_id | ACI_DTI_LINK_ID_1 |
| | version | DTI_VERSION_10 |
| (8) UART_DTI_CNF | dti_conn | UART_CONNECT_DTI |
| | device | NUM_0 |
| | dlci | |
| | UART_DLCI_NOT_MULTIPLEXED | |
| (9) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (10) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (11) DTI2_DATA_TEST_REQ | link_id | ACI_DTI_LINK_ID_1 |
| | parameters | NOT_USED |
| | sdu | F_RESP_OK |
| (12) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |

History: 30.07.02 Tlu Initial

4.5.7 ACIDTI057: User terminates call (ATH)

Description:

Preamble: ACIDTI056



Parametrization:

| Primitive | Parameter | Value |
|------------------------|---|---|
| (1) DTI2_DATA_TEST_IND | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_AT_H |
| (2) L2R_DISC_REQ | | |
| (3) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (4) L2R_DISC_CNF | | |
| (5) L2R_DEACTIVATE_REQ | | |
| (6) L2R_DEACTIVATE_CNF | | |
| (7) UART_DCD_REQ | device dlci UART_DLCI_NOT_MULTIPLEXED line_state | NUM_0 UART_LINE_OFF |

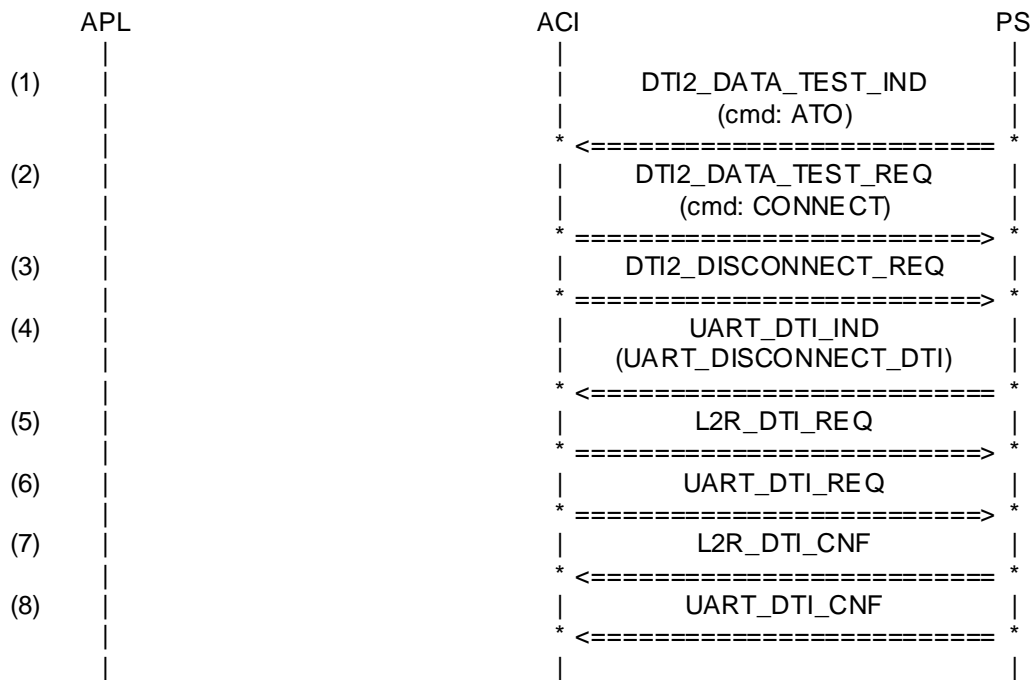
| | | |
|--------------------------|---|--|
| (8) UART_DCD_CNF | device dlci UART_DLCI_NOT_MULTIPLEXED | NUM_0 |
| (9) RA_DEACTIVATE_REQ | | |
| (10) RA_DEACTIVATE_CNF | | |
| (11) SIM_SYNC_REQ | synccs | SYNC_STOP_CALL |
| (12) MNCC_DISCONNECT_REQ | ti cause MNCC_CAUSE_CALL_CLEAR fac_inf ss_version | NUM_0 NOT_USED NOT_USED |
| (13) MNCC_RELEASE_IND | ti cause MNCC_CAUSE_CALL_CLEAR | NUM_0 |
| (14) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_OK |
| (15) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |

History: 27.03.01 clb Initial
 30.07.02 Tlu Adaptation to DTI2

4.5.8 ACIDTI058: Return to data mode (ATO)

Description:

Preamble: ACIDTI056



Parametrization:

| Primitive | Parameter | Value |
|--------------------------|--|--|
| (9) DTI2_DATA_TEST_IND | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_AT_O |
| (10) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_CONNECT |
| (11) DTI2_DISCONNECT_REQ | link_id cause DTI_CAUSE_NORMAL_CLOSE | ACI_DTI_LINK_ID_1 |
| (12) UART_DTI_IND | dti_conn UART_DISCONNECT_DTI device dlci UART_DLCI_NOT_MULTIPLEXED | NUM_0 |
| (5) L2R_DTI_REQ | dti_conn entity_name link_id dti_direction | L2R_CONNECT_DTI NOT_USED ACI_DTI_LINK_ID_1 L2R_DTI_INVERTED |
| (13) UART_DTI_REQ | dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED direction link_id entity_name | UART_CONNECT_DTI NUM_0 NUM_0 ACI_DTI_LINK_ID_1 NOT_USED |

(6) L2R_DTI_CNF

dti_conn
link_id

L2R_CONNECT_DTI
ACI_DTI_LINK_ID_1

(14) UART_DTI_CNF

dti_conn
device
dlci
UART_DLCI_NOT_MULTIPLEXED

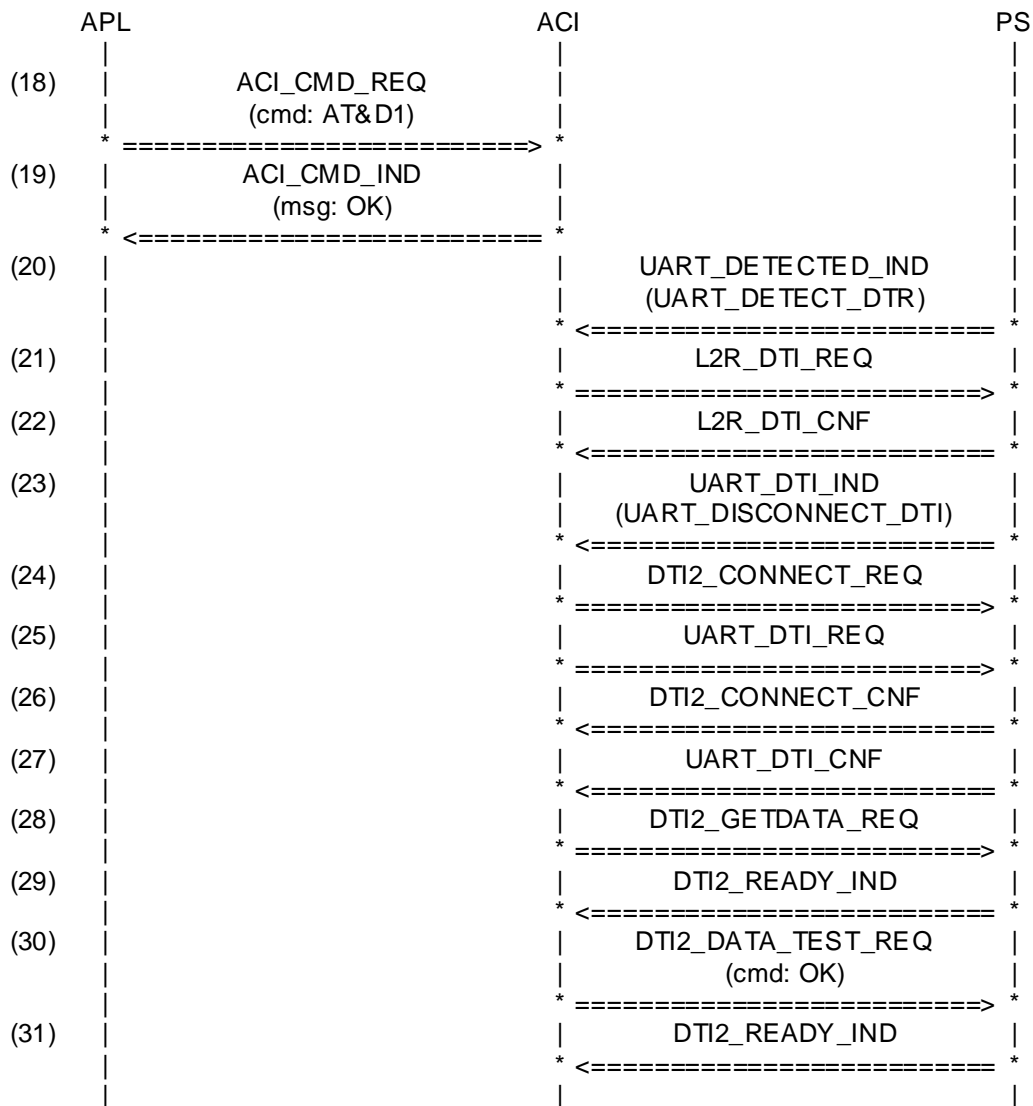
UART_CONNECT_DTI
NUM_0

| | | | |
|----------|----------|-----|--------------------|
| History: | 27.03.01 | clb | Initial |
| | 30.07.02 | Tlu | Adaptation to DTI2 |

4.5.9 ACIDTI059: DTR detected (AT&D1)

Description: DTR detected, when DTR behavior is set to 1 (on reception of DTR the DCE enters command state and issues an OK result code).

Preamble: ACIDTI052



Parametrization:

| Primitive | Parameter | Value |
|-----------------------|--|---|
| (4) ACI_CMD_REQ | cmd_src cmd_len cmd_seq | CMD_SRC_EXT LC_AND_D C_AND_D1 |
| (5) ACI_CMD_IND | cmd_len cmd_seq | LM_OK M_OK |
| (6) UART_DETECTED_IND | device dlci UART_DLCI_NOT_MULTIPLEXED cause | NUM_0 UART_DETECT_DTR |
| (7) L2R_DTI_REQ | dti_conn entity_name link_id dti_direction | L2R_DISCONNECT_DTI NOT_USED ACI_DTI_LINK_ID_1 NOT_USED |

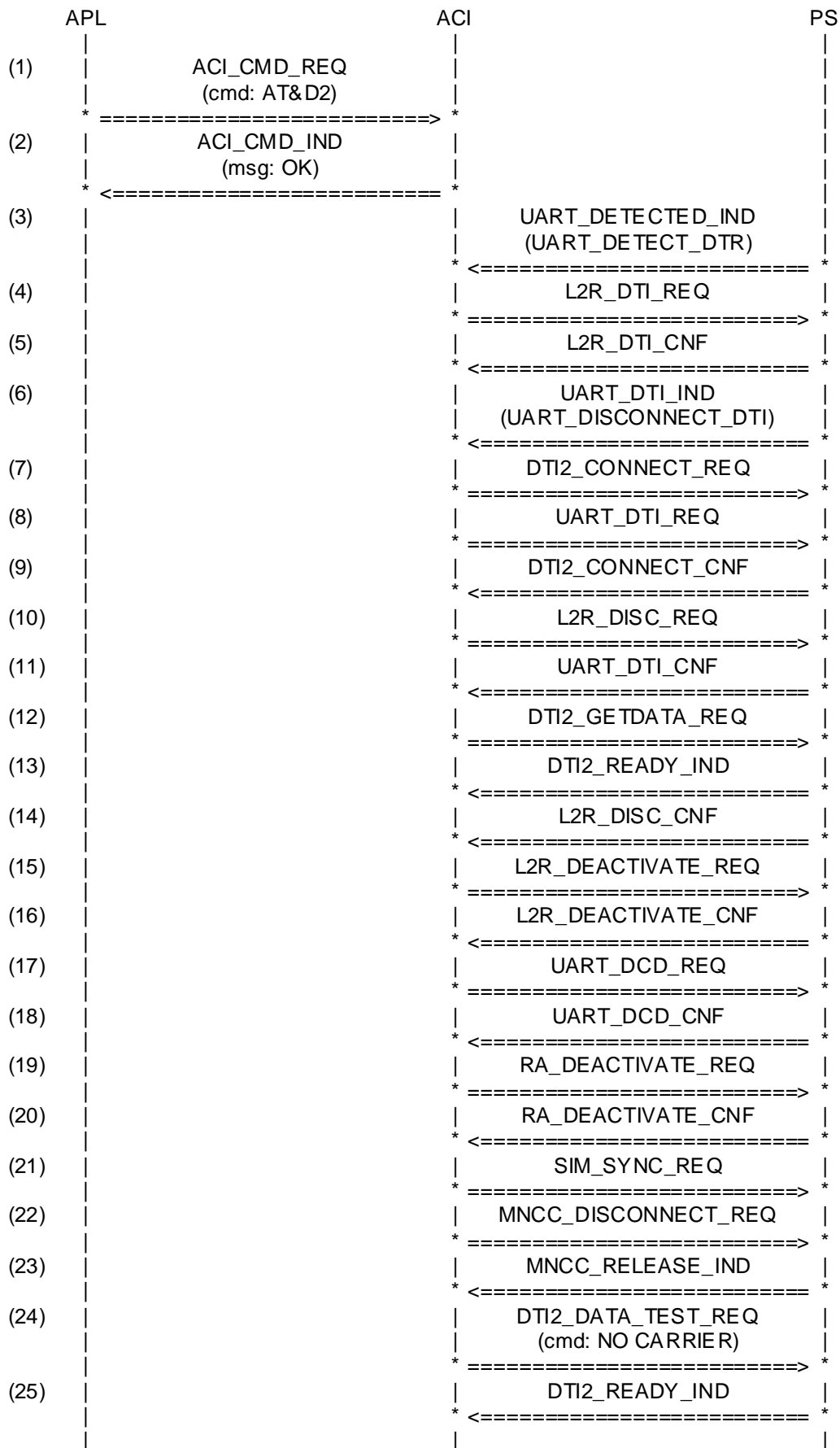
| | | |
|-------------------------|--|---|
| (8) L2R_DTI_CNF | dti_conn link_id | L2R_DISCONNECT_DTI ACI_DTI_LINK_ID_1 |
| (9) UART_DTI_IND | dti_conn UART_DISCONNECT_DTI device dlci UART_DLCI_NOT_MULTIPLEXED | NUM_0 |
| (10) DTI2_CONNECT_REQ | link_id version | ACI_DTI_LINK_ID_1 DTI_VERSION_10 |
| (11) UART_DTI_REQ | dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED direction link_id entity_name | UART_CONNECT_DTI NUM_0 NUM_0 ACI_DTI_LINK_ID_1 NOT_USED |
| (12) DTI2_CONNECT_CNF | link_id version | ACI_DTI_LINK_ID_1 DTI_VERSION_10 |
| (13) UART_DTI_CNF | dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED | UART_CONNECT_DTI NUM_0 |
| (14) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (15) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (16) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_OK |
| (17) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |

History: 30.07.02 Tlu Initial

4.5.10 ACIDTI060: DTR detected (AT&D2)

Description: DTR detected, when DTR behavior is set to 2 (DCE performs a cleardown of the call (ATH)).

Preamble: ACIDTI052



Parametrization:

| <u>Primitive</u> | <u>Parameter</u> | <u>Value</u> |
|-----------------------|---------------------------|--------------------|
| (1) ACI_CMD_REQ | cmd_src | CMD_SRC_EXT |
| | cmd_len | LC_AND_D |
| | cmd_seq | C_AND_D2 |
| (2) ACI_CMD_IND | cmd_len | LM_OK |
| | cmd_seq | M_OK |
| (3) UART_DETECTED_IND | device | NUM_0 |
| | dlci | |
| | UART_DLCI_NOT_MULTIPLEXED | |
| | cause | UART_DETECT_DTR |
| (4) L2R_DTI_REQ | dti_conn | L2R_DISCONNECT_DTI |
| | entity_name | NOT_USED |
| | link_id | ACI_DTI_LINK_ID_1 |
| | dti_direction | NOT_USED |
| (5) L2R_DTI_CNF | dti_conn | L2R_DISCONNECT_DTI |
| | link_id | ACI_DTI_LINK_ID_1 |
| (6) UART_DTI_IND | dti_conn | |
| | UART_DISCONNECT_DTI | |
| | device | NUM_0 |
| | dlci | |
| (7) DTI2_CONNECT_REQ | UART_DLCI_NOT_MULTIPLEXED | |
| | | |
| (8) UART_DTI_REQ | link_id | ACI_DTI_LINK_ID_1 |
| | version | DTI_VERSION_10 |
| (9) DTI2_CONNECT_CNF | dti_conn | UART_CONNECT_DTI |
| | device | NUM_0 |
| | dlci | |
| | UART_DLCI_NOT_MULTIPLEXED | |
| | direction | NUM_0 |
| | link_id | ACI_DTI_LINK_ID_1 |
| | entity_name | NOT_USED |
| (10) L2R_DISC_REQ | link_id | ACI_DTI_LINK_ID_1 |
| | version | DTI_VERSION_10 |
| (11) UART_DTI_CNF | dti_conn | UART_CONNECT_DTI |
| | device | NUM_0 |
| | dlci | |
| | UART_DLCI_NOT_MULTIPLEXED | |
| (12) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| | | |

| | | |
|--------------------------|---|--|
| (13) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (14) L2R_DISC_CNF | | |
| (15) L2R_DEACTIVATE_REQ | | |
| (16) L2R_DEACTIVATE_CNF | | |
| (17) UART_DCD_REQ | device dlci UART_DLCI_NOT_MULTIPLEXED line_state | NUM_0 UART_LINE_OFF |
| (18) UART_DCD_CNF | device dlci UART_DLCI_NOT_MULTIPLEXED | NUM_0 |
| (19) RA_DEACTIVATE_REQ | | |
| (20) RA_DEACTIVATE_CNF | | |
| (21) SIM_SYNC_REQ | synccs | SYNC_STOP_CALL |
| (22) MNCC_DISCONNECT_REQ | ti cause MNCC_CAUSE_CALL_CLEAR fac_inf ss_version | NUM_0 NOT_USED NOT_USED |
| (23) MNCC_RELEASE_IND | ti cause MNCC_CAUSE_CALL_CLEAR | NUM_0 |
| (24) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_NO_CARRIER |
| (25) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |

History: 30.07.02 Tlu Initial

4.6 FAX Transfer

4.6.1 ACIDTI071: MO FAX call (transmit 2 pages complete)

Description:

Mobile originated FAX call (transmit 2 pages complete)

Preamble:

ACIDTI002

| APL | ACI | PS |
|------|--|----|
| (1) | DTI2_DATA_TEST_IND (ATE0;+CBST=7,0,0;+CMOD=1) | |
| (2) | MNCC_CONFIGURE_REQ | |
| (3) | DTI2_DATA_TEST_REQ (msg: OK) | |
| (4) | DTI2_GETDATA_REQ | |
| (5) | DTI2_READY_IND | |
| (6) | DTI2_DATA_TEST_IND (cmd: AT+FCLASS=2.0) | |
| (7) | DTI2_DATA_TEST_REQ (msg: OK) | |
| (8) | DTI2_READY_IND | |
| (9) | DTI2_GETDATA_REQ | |
| (10) | DTI2_DATA_TEST_IND (cmd: AT+FNR=1,1,1,0) | |
| (11) | DTI2_DATA_TEST_REQ (msg: OK) | |
| (12) | DTI2_READY_IND | |
| (13) | DTI2_GETDATA_REQ | |
| (14) | DTI2_DATA_TEST_IND (AT+FIS=1,x,0,2,0,0,0,0) | |
| (15) | DTI2_DATA_TEST_REQ (msg: OK) | |
| (16) | DTI2_READY_IND | |
| (17) | DTI2_GETDATA_REQ | |
| (18) | DTI2_DATA_TEST_IND (cmd: ATD123456) | |
| (19) | MNCC_SETUP_REQ | |
| (20) | SIM_SYNC_REQ | |
| (21) | DTI2_READY_IND | |
| (22) | SIM_SYNC_CNF | |
| (23) | MNCC_CALL_PROCEED_IND | |
| (24) | MNCC_PROGRESS_IND | |

| | | | |
|------|--|------------------------|---|
| (25) | | MNCC_ALERT_IND | |
| | | * <===== | * |
| (26) | | MNCC_SYNC_IND | |
| | | * <===== | * |
| (27) | | MNCC_SETUP_CNF | |
| | | * <===== | * |
| (28) | | DTI2_GETDATA_REQ | |
| | | * =====> | * |
| (29) | | RA_ACTIVATE_REQ | |
| | | * =====> | * |
| (30) | | RA_ACTIVATE_CNF | |
| | | * <===== | * |
| (31) | | T30_ACTIVATE_REQ | |
| | | * =====> | * |
| (32) | | T30_ACTIVATE_CNF | |
| | | * <===== | * |
| (33) | | UART_DCD_REQ | |
| | | * =====> | * |
| (34) | | UART_ESCAPE_REQ | |
| | | * =====> | * |
| (35) | | T30_CONFIG_REQ | |
| | | * =====> | * |
| (36) | | T30_PREAMBLE_IND | |
| | | * <===== | * |
| (37) | | DTI2_DATA_TEST_REQ | |
| | | (msg: +FCO) | |
| | | * =====> | * |
| (38) | | DTI2_READY_IND | |
| | | * <===== | * |
| (39) | | T30_CAP_IND | |
| | | * <===== | * |
| (40) | | DTI2_DATA_TEST_REQ | |
| | | (+FIS:1,3,0,2,0,0,0,0) | |
| | | * =====> | * |
| (41) | | DTI2_READY_IND | |
| | | * <===== | * |
| (42) | | DTI2_DATA_TEST_REQ | |
| | | (msg: OK) | |
| | | * =====> | * |
| (43) | | DTI2_READY_IND | |
| | | * <===== | * |
| (44) | | DTI2_DATA_TEST_IND | |
| | | (cmd: AT+FDT) | |
| | | * <===== | * |
| (45) | | T30_CAP_REQ | |
| | | * =====> | * |
| (46) | | T30_MODIFY_REQ | |
| | | * =====> | * |
| (47) | | DTI2_DATA_TEST_REQ | |
| | | (+FCS:1,3,0,2,0,0,0,0) | |
| | | * =====> | * |
| (48) | | DTI2_READY_IND | |
| | | * <===== | * |
| (49) | | T30_PHASE_IND | |
| | | (MSG) | |
| | | * <===== | * |
| (50) | | DTI2_GETDATA_REQ | |
| | | * =====> | * |

| | | | |
|------|--|---------------------------------------|--|
| (51) | | DTI2_DATA_TEST_REQ (msg: CONNECT) | |
| | | * =====> * | |
| (52) | | DTI2_DISCONNECT_REQ | |
| | | * =====> * | |
| (53) | | UART_DTI_IND (UART_DISCONNECT_DTI) | |
| | | * <===== * | |
| (54) | | UART_DTI_REQ (UART_CONNECT_DTI) | |
| | | * =====> * | |
| (55) | | UART_DTI_CNF (UART_CONNECT_DTI) | |
| | | * <===== * | |
| (56) | | T30_DTI_REQ (T30_CONNECT_DTI) | |
| | | * =====> * | |
| (57) | | T30_DTI_CNF (T30_CONNECT_DTI) | |
| | | * <===== * | |
| (58) | | T30_PHASE_IND (BCS) | |
| | | * <===== * | |
| (59) | | T30_DTI_REQ (T30_DISCONNECT_DTI) | |
| | | * =====> * | |
| (60) | | T30_DTI_CNF (T30_DISCONNECT_DTI) | |
| | | * <===== * | |
| (61) | | UART_DTI_IND (UART_DISCONNECT_DTI) | |
| | | * <===== * | |
| (62) | | DTI2_CONNECT_REQ | |
| | | * =====> * | |
| (63) | | UART_DTI_REQ (UART_CONNECT_DTI) | |
| | | * =====> * | |
| (64) | | DTI2_CONNECT_CNF | |
| | | * <===== * | |
| (65) | | UART_DTI_CNF (UART_CONNECT_DTI) | |
| | | * <===== * | |
| (66) | | DTI2_GETDATA_REQ | |
| | | * =====> * | |
| (67) | | DTI2_READY_IND | |
| | | * <===== * | |
| (68) | | T30_SGN_IND (SGN_MPS) | |
| | | * <===== * | |
| (69) | | T30_SGN_REQ (cmd: SGN_MPS) | |
| | | * =====> * | |
| (70) | | DTI2_DATA_TEST_REQ (msg: OK) | |
| | | * =====> * | |
| (71) | | DTI2_READY_IND | |
| | | * <===== * | |

| | | | |
|------|--|---------------------------------------|--|
| (72) | | DTI2_DATA_TEST_IND (cmd: AT+FDT) | |
| | | * <===== * | |
| (73) | | DTI2_GETDATA_REQ | |
| | | * =====> * | |
| (74) | | T30_PHASE_IND (MSG) | |
| | | * <===== * | |
| (75) | | DTI2_DATA_TEST_REQ (msg: CONNECT) | |
| | | * =====> * | |
| (76) | | DTI2_DISCONNECT_REQ | |
| | | * =====> * | |
| (77) | | UART_DTI_IND (UART_DISCONNECT_DTI) | |
| | | * <===== * | |
| (78) | | UART_DTI_REQ (UART_CONNECT_DTI) | |
| | | * =====> * | |
| (79) | | T30_DTI_REQ (T30_CONNECT_DTI) | |
| | | * =====> * | |
| (80) | | UART_DTI_CNF (UART_CONNECT_DTI) | |
| | | * <===== * | |
| (81) | | T30_DTI_CNF (T30_CONNECT_DTI) | |
| | | * <===== * | |
| (82) | | T30_PHASE_IND (BCS) | |
| | | * <===== * | |
| (83) | | T30_DTI_REQ (T30_DISCONNECT_DTI) | |
| | | * =====> * | |
| (84) | | T30_DTI_CNF (T30_DISCONNECT_DTI) | |
| | | * <===== * | |
| (85) | | UART_DTI_IND (UART_DISCONNECT_DTI) | |
| | | * <===== * | |
| (86) | | DTI2_CONNECT_REQ | |
| | | * =====> * | |
| (87) | | UART_DTI_REQ (UART_CONNECT_DTI) | |
| | | * =====> * | |
| (88) | | DTI2_CONNECT_CNF | |
| | | * <===== * | |
| (89) | | UART_DTI_CNF (UART_CONNECT_DTI) | |
| | | * <===== * | |
| (90) | | DTI2_GETDATA_REQ | |
| | | * =====> * | |
| (91) | | DTI2_READY_IND | |
| | | * <===== * | |
| (92) | | T30_SGN_IND (SGN_EOP) | |
| | | * <===== * | |

| | | | | |
|-------|--|---|--------------------------------------|---|
| (93) | | | T30_SGN_REQ (SGN_EOP) | |
| | | * | ===== | * |
| (94) | | | T30_CMPL_IND (CMPL_EOP) | |
| | | * | <===== | * |
| (95) | | | DTI2_DATA_TEST_REQ (msg: +FHS:00) | |
| | | * | ===== | * |
| (96) | | | DTI2_READY_IND | |
| | | * | <===== | * |
| (97) | | | T30_DEACTIVATE_REQ | |
| | | * | ===== | * |
| (98) | | | T30_DEACTIVATE_CNF | |
| | | * | <===== | * |
| (99) | | | UART_DCD_REQ | |
| | | * | ===== | * |
| (100) | | | UART_ESCAPE_REQ | |
| | | * | ===== | * |
| (101) | | | RA_DEACTIVATE_REQ | |
| | | * | ===== | * |
| (102) | | | RA_DEACTIVATE_CNF | |
| | | * | <===== | * |
| (103) | | | SIM_SYNC_REQ | |
| | | * | ===== | * |
| (104) | | | MNCC_DISCONNECT_REQ | |
| | | * | ===== | * |
| (105) | | | MNCC_RELEASE_IND | |
| | | * | <===== | * |
| (106) | | | DTI2_DATA_TEST_REQ (msg: OK) | |
| | | * | ===== | * |
| (107) | | | DTI2_READY_IND | |
| | | * | <===== | * |
| (108) | | | DTI2_DATA_TEST_IND (AT) | |
| | | * | <===== | * |
| (109) | | | DTI2_DATA_TEST_REQ (msg: OK) | |
| | | * | ===== | * |
| | | | | |

Parametrization:

| <u>Primitive</u> | <u>Parameter</u> | <u>Value</u> |
|-------------------------|--|--|
| (1) DTI2_DATA_TEST_IND | link_id parameters sdu F_AT_PLUS_CMOD_FAX | ACI_DTI_LINK_ID_1 NOT_USED |
| (2) MNCC_CONFIGURE_REQ | called_party_sub bcpara sns_mode ctm_ena | NOT_USED NOT_USED NOT_USED CTM_DISABLED |
| (3) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_OK |
| (4) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (5) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (6) DTI2_DATA_TEST_IND | link_id parameters sdu F_AT_PLUS_FCLASS_2_0 | ACI_DTI_LINK_ID_1 NOT_USED |
| (7) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_OK |
| (8) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (9) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (10) DTI2_DATA_TEST_IND | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_AT_PLUS_FNR |
| (11) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_OK |
| (12) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (13) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (14) DTI2_DATA_TEST_IND | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_AT_PLUS_FIS3 |
| (15) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_OK |
| (16) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (17) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (18) DTI2_DATA_TEST_IND | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_AT_D_DAT2 |
| (19) MNCC_SETUP_REQ | ti prio ri bcpara bcpara2 | NUM_0 PRIO_NORM_CALL RI_CIRCULAR S_BS_FAX S_BS_VOICE |

| | | |
|----------------------------|------------------------|-------------------|
| | called_party | S_CLD_PARTY |
| | called_party_sub | S_CLD_PARTY_SUB |
| | clir_sup | NOT_PRESENT_8BIT |
| | fac_inf | NOT_USED |
| (20) SIM_SYNC_REQ | synccs | SYNC_START_CALL |
| (21) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (22) SIM_SYNC_CNF | cause | SIM_NO_ERROR |
| (23) MNCC_CALL_PROCEED_IND | ti | NUM_0 |
| | progress_desc | PROG_NOT_PRES |
| | ri | NOT_PRESENT_8BIT |
| | bcpaara | S_BS_FAX |
| | bcpaara2 | S_BS_NOT_PRESENT |
| (24) MNCC_PROGRESS_IND | ti | NUM_0 |
| | progress_desc | PROG_NOT_PRES |
| (25) MNCC_ALERT_IND | ti | NUM_0 |
| | progress_desc | PROG_NOT_PRES |
| (26) MNCC_SYNC_IND | ti | NOT_PRESENT_8BIT |
| | cause | |
| | MNCC_CAUSE_NO_MS_CAUSE | |
| | chm | S_CHN_FULL_9600 |
| (27) 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 |
| (28) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (29) RA_ACTIVATE_REQ | model | RA_MODEL_FAX |
| | tra_rate | TRA_FULLRATE_9600 |
| | user_rate | URA_9600 |
| | ndb | NUM_8 |
| | nsb | NUM_1 |
| (30) RA_ACTIVATE_CNF | ack_flg | RA_ACK |

| | | | |
|------|--------------------|--|--|
| (31) | T30_ACTIVATE_REQ | trans_rate half_rate threshold frames_per_prim bitorder | NUM_9600 NUM_0 NUM_DEC_90 NUM_3 NUM_0 |
| (32) | T30_ACTIVATE_CNF | buf_size_rx buf_size_tx | NUM_4800 NUM_4800 |
| (33) | UART_DCD_REQ | device dlci UART_DLCI_NOT_MULTIPLEXED line_state | NUM_0 UART_LINE_ON |
| (34) | UART_ESCAPE_REQ | device dlci UART_DLCI_NOT_MULTIPLEXED detection UART_ESC_DETECTION_OFF | NUM_0 |
| (35) | T30_CONFIG_REQ | hdlc_report test_mode | NUM_1 NOT_USED |
| (36) | T30_PREAMBLE_IND | | |
| (37) | DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_PLUS_FCO |
| (38) | DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (39) | T30_CAP_IND | hdlc_info | S_HDLC_DIS_9600 |
| (40) | DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_PLUS_FIS |
| (41) | DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (42) | DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_OK |
| (43) | DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (44) | DTI2_DATA_TEST_IND | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_AT_PLUS_FDT |
| (45) | T30_CAP_REQ | hdlc_info | NOT_USED |
| (46) | T30_MODIFY_REQ | trans_rate half_rate | NUM_9600 NUM_0 |
| (47) | DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_PLUS_FCS13 |
| (48) | DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (49) | T30_PHASE_IND | phase | MSG_PHASE |
| (50) | DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (51) | DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_CONNECT |

| | | |
|--------------------------|--|---|
| (52) DTI2_DISCONNECT_REQ | link_id cause DTI_CAUSE_NORMAL_CLOSE | ACI_DTI_LINK_ID_1 |
| (53) UART_DTI_IND | dti_conn UART_DISCONNECT_DTI device dlci UART_DLCI_NOT_MULTIPLEXED | NUM_0 |
| (54) UART_DTI_REQ | dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED direction link_id entity_name | UART_CONNECT_DTI NUM_0 FALSE ACI_DTI_LINK_ID_1 NOT_USED |
| (55) UART_DTI_CNF | dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED | UART_CONNECT_DTI NUM_0 |
| (56) T30_DTI_REQ | dti_conn entity_name link_id dti_direction | T30_CONNECT_DTI NOT_USED NOT_USED T30_DTI_INVERTED |
| (57) T30_DTI_CNF | dti_conn | T30_CONNECT_DTI |
| (58) T30_PHASE_IND | phase | BCS_PHASE |
| (59) T30_DTI_REQ | dti_conn entity_name link_id dti_direction | T30_DISCONNECT_DTI NOT_USED NOT_USED T30_DTI_INVERTED |
| (60) T30_DTI_CNF | dti_conn | T30_DISCONNECT_DTI |
| (61) UART_DTI_IND | dti_conn UART_DISCONNECT_DTI device dlci UART_DLCI_NOT_MULTIPLEXED | NUM_0 |
| (62) DTI2_CONNECT_REQ | link_id version | ACI_DTI_LINK_ID_1 DTI_VERSION_10 |
| (63) UART_DTI_REQ | dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED direction link_id entity_name | UART_CONNECT_DTI NUM_0 FALSE ACI_DTI_LINK_ID_1 NOT_USED |
| (64) DTI2_CONNECT_CNF | link_id version | ACI_DTI_LINK_ID_1 DTI_VERSION_10 |

| | | |
|--------------------------|--|---|
| (65) UART_DTI_CNF | dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED | UART_CONNECT_DTI NUM_0 |
| (66) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (67) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (68) T30_SGN_IND | sgn | SGN_MPS |
| (69) T30_SGN_REQ | sgn | SGN_MPS |
| (70) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_OK |
| (71) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (72) DTI2_DATA_TEST_IND | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_AT_PLUS_FDT |
| (73) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (74) T30_PHASE_IND | phase | MSG_PHASE |
| (75) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_CONNECT |
| (76) DTI2_DISCONNECT_REQ | link_id cause DTI_CAUSE_NORMAL_CLOSE | ACI_DTI_LINK_ID_1 |
| (77) UART_DTI_IND | dti_conn UART_DISCONNECT_DTI device dlci UART_DLCI_NOT_MULTIPLEXED | NUM_0 |
| (78) UART_DTI_REQ | dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED direction link_id entity_name | UART_CONNECT_DTI NUM_0 FALSE ACI_DTI_LINK_ID_1 NOT_USED |
| (79) T30_DTI_REQ | dti_conn entity_name link_id dti_direction | T30_CONNECT_DTI NOT_USED NOT_USED T30_DTI_INVERTED |
| (80) UART_DTI_CNF | dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED | UART_CONNECT_DTI NUM_0 |
| (81) T30_DTI_CNF | dti_conn | T30_CONNECT_DTI |
| (82) T30_PHASE_IND | phase | BCS_PHASE |

| | | | |
|-------|--------------------|--|---|
| (83) | T30_DTI_REQ | dti_conn entity_name link_id dti_direction | T30_DISCONNECT_DTI NOT_USED NOT_USED T30_DTI_INVERTED |
| (84) | T30_DTI_CNF | dti_conn | T30_DISCONNECT_DTI |
| (85) | UART_DTI_IND | dti_conn UART_DISCONNECT_DTI device dlci UART_DLCI_NOT_MULTIPLEXED | NUM_0 |
| (86) | DTI2_CONNECT_REQ | link_id version | ACI_DTI_LINK_ID_1 DTI_VERSION_10 |
| (87) | UART_DTI_REQ | dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED direction link_id entity_name | UART_CONNECT_DTI NUM_0 FALSE ACI_DTI_LINK_ID_1 NOT_USED |
| (88) | DTI2_CONNECT_CNF | link_id version | ACI_DTI_LINK_ID_1 DTI_VERSION_10 |
| (89) | UART_DTI_CNF | dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED | UART_CONNECT_DTI NUM_0 |
| (90) | DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (91) | DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (92) | T30_SGN_IND | sgn | SGN_EOP |
| (93) | T30_SGN_REQ | sgn | SGN_EOP |
| (94) | T30_CMPL_IND | cmpl | CMPL_EOP |
| (95) | DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_PLUS_FHS |
| (96) | DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (97) | T30_DEACTIVATE_REQ | | |
| (98) | T30_DEACTIVATE_CNF | | |
| (99) | UART_DCD_REQ | device dlci UART_DLCI_NOT_MULTIPLEXED line_state | NUM_0 UART_LINE_OFF |
| (100) | UART_ESCAPE_REQ | device dlci UART_DLCI_NOT_MULTIPLEXED detection UART_ESC_DETECTION_ON | NUM_0 |

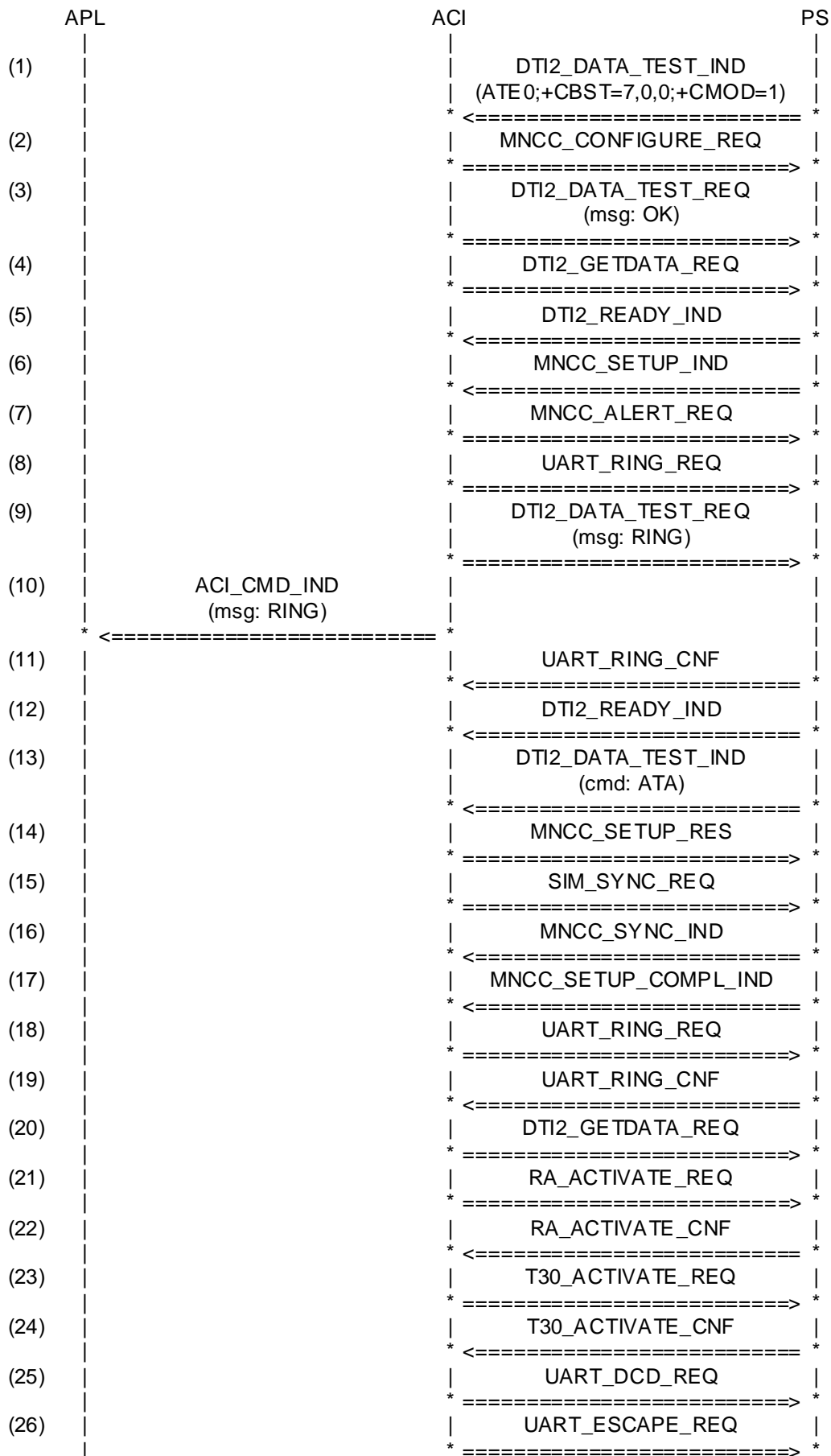
| | | | |
|-------|---------------------|---|--|
| (101) | RA_DEACTIVATE_REQ | | |
| (102) | RA_DEACTIVATE_CNF | | |
| (103) | SIM_SYNC_REQ | synccs | SYNC_STOP_CALL |
| (104) | MNCC_DISCONNECT_REQ | ti cause MNCC_CAUSE_CALL_CLEAR fac_inf ss_version | NUM_0 NOT_USED NOT_USED |
| (105) | MNCC_RELEASE_IND | ti cause MNCC_CAUSE_CALL_CLEAR | NUM_0 |
| (106) | DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_OK |
| (107) | DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (108) | DTI2_DATA_TEST_IND | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_AT |
| (109) | DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_OK |

| | | | |
|----------|------------|-----|---------------------------------|
| History: | 27.06.2001 | KJF | Initial |
| | 06.09.2002 | TLU | UART_ESCAPE_REQ inserted |
| | 07.10.2002 | TLU | "OK" added at the end of the TC |

4.6.2 ACIDTI072: MT FAX call (receive 2 pages complete)

Description:
Mobile terminated FAX call (receive 2 pages complete)

Preamble:
ACIDTI002



| | | | |
|------|--|-----------------------|---|
| (27) | | T30_CONFIG_REQ | |
| | | * =====> | * |
| (28) | | T30_CAP_REQ | |
| | | * =====> | * |
| (29) | | T30_PREAMBLE_IND | |
| | | * <===== | * |
| (30) | | DTI2_DATA_TEST_REQ | |
| | | (msg: +FCO) | |
| | | * =====> | * |
| (31) | | DTI2_READY_IND | |
| | | * <===== | * |
| (32) | | T30_CAP_IND | |
| | | * <===== | * |
| (33) | | DTI2_DATA_TEST_REQ | |
| | | (msg: OK) | |
| | | * =====> | * |
| (34) | | DTI2_READY_IND | |
| | | * <===== | * |
| (35) | | DTI2_DATA_TEST_IND | |
| | | (cmd: AT+FDR) | |
| | | * <===== | * |
| (36) | | DTI2_GETDATA_REQ | |
| | | * =====> | * |
| (37) | | DTI2_READY_IND | |
| | | * <===== | * |
| (38) | | T30_PHASE_IND | |
| | | (MSG) | |
| | | * <===== | * |
| (39) | | DTI2_DATA_TEST_REQ | |
| | | (msg: CONNECT) | |
| | | * =====> | * |
| (40) | | DTI2_DISCONNECT_REQ | |
| | | * =====> | * |
| (41) | | UART_DTI_IND | |
| | | (UART_DISCONNECT_DTI) | |
| | | * <===== | * |
| (42) | | UART_DTI_REQ | |
| | | (UART_CONNECT_DTI) | |
| | | * =====> | * |
| (43) | | T30_DTI_REQ | |
| | | (T30_CONNECT_DTI) | |
| | | * =====> | * |
| (44) | | UART_DTI_CNF | |
| | | (UART_CONNECT_DTI) | |
| | | * <===== | * |
| (45) | | DTI2_READY_IND | |
| | | * <===== | * |
| (46) | | T30_DTI_CNF | |
| | | (T30_CONNECT_DTI) | |
| | | * <===== | * |
| (47) | | T30_PHASE_IND | |
| | | (BCS) | |
| | | * <===== | * |
| (48) | | T30_DTI_REQ | |
| | | (T30_DISCONNECT_DTI) | |
| | | * =====> | * |
| (49) | | T30_DTI_CNF | |
| | | (T30_DISCONNECT_DTI) | |
| | | * <===== | * |

| | | | | |
|------|--|---|---|---|
| (50) | | | UART_DTI_IND (UART_DISCONNECT_DTI) | |
| | | * | <===== | * |
| (51) | | | DTI2_CONNECT_REQ | |
| | | * | =====> | * |
| (52) | | | UART_DTI_REQ (UART_CONNECT_DTI) | |
| | | * | =====> | * |
| (53) | | | DTI2_CONNECT_CNF | |
| | | * | <===== | * |
| (54) | | | UART_DTI_CNF (UART_CONNECT_DTI) | |
| | | * | <===== | * |
| (55) | | | DTI2_GETDATA_REQ | |
| | | * | =====> | * |
| (56) | | | DTI2_READY_IND | |
| | | * | <===== | * |
| (57) | | | T30_EOL_IND (eol) | |
| | | * | <===== | * |
| (58) | | | T30_SGN_IND (SGN_MPS) | |
| | | * | <===== | * |
| (59) | | | DTI2_DATA_TEST_REQ (msg: +FPS:1,0,0,0,0) | |
| | | * | =====> | * |
| (60) | | | DTI2_READY_IND | |
| | | * | <===== | * |
| (61) | | | DTI2_DATA_TEST_REQ (msg: +FET:0) | |
| | | * | =====> | * |
| (62) | | | DTI2_READY_IND | |
| | | * | <===== | * |
| (63) | | | DTI2_DATA_TEST_REQ (msg: OK) | |
| | | * | =====> | * |
| (64) | | | DTI2_READY_IND | |
| | | * | <===== | * |
| (65) | | | DTI2_DATA_TEST_IND (cmd: AT+FDR) | |
| | | * | <===== | * |
| (66) | | | T30_SGN_REQ (SGN_MCF) | |
| | | * | =====> | * |
| (67) | | | T30_PHASE_IND (MSG) | |
| | | * | <===== | * |
| (68) | | | DTI2_GETDATA_REQ | |
| | | * | =====> | * |
| (69) | | | DTI2_DATA_TEST_REQ (msg: CONNECT) | |
| | | * | =====> | * |
| (70) | | | DTI2_DISCONNECT_REQ | |
| | | * | =====> | * |
| (71) | | | UART_DTI_IND (UART_DISCONNECT_DTI) | |
| | | * | <===== | * |

| | | | | |
|------|--|---|---|---|
| (72) | | | UART_DTI_REQ (UART_CONNECT_DTI) | |
| | | * | ===== | * |
| (73) | | | UART_DTI_CNF (UART_CONNECT_DTI) | |
| | | * | <===== | * |
| (74) | | | T30_DTI_REQ (T30_CONNECT_DTI) | |
| | | * | ===== | * |
| (75) | | | T30_DTI_CNF (T30_CONNECT_DTI) | |
| | | * | <===== | * |
| (76) | | | T30_PHASE_IND (BCS) | |
| | | * | <===== | * |
| (77) | | | T30_DTI_REQ (T30_DISCONNECT_DTI) | |
| | | * | ===== | * |
| (78) | | | T30_DTI_CNF (T30_DISCONNECT_DTI) | |
| | | * | <===== | * |
| (79) | | | UART_DTI_IND (UART_DISCONNECT_DTI) | |
| | | * | <===== | * |
| (80) | | | DTI2_CONNECT_REQ | |
| | | * | ===== | * |
| (81) | | | UART_DTI_REQ (UART_CONNECT_DTI) | |
| | | * | ===== | * |
| (82) | | | DTI2_CONNECT_CNF | |
| | | * | <===== | * |
| (83) | | | UART_DTI_CNF (UART_CONNECT_DTI) | |
| | | * | <===== | * |
| (84) | | | DTI2_GETDATA_REQ | |
| | | * | ===== | * |
| (85) | | | DTI2_READY_IND | |
| | | * | <===== | * |
| (86) | | | T30_EOL_IND (eol) | |
| | | * | <===== | * |
| (87) | | | T30_SGN_IND (SGN_EOP) | |
| | | * | <===== | * |
| (88) | | | DTI2_DATA_TEST_REQ (msg: +FPS:1,0,0,0,0) | |
| | | * | ===== | * |
| (89) | | | DTI2_READY_IND | |
| | | * | <===== | * |
| (90) | | | DTI2_DATA_TEST_REQ (msg: +FET:2) | |
| | | * | ===== | * |
| (91) | | | DTI2_READY_IND | |
| | | * | <===== | * |
| (92) | | | DTI2_DATA_TEST_REQ (msg: OK) | |
| | | * | ===== | * |
| (93) | | | DTI2_READY_IND | |
| | | * | <===== | * |

| | | | |
|-------|--|--------------------------------------|--|
| (94) | | DTI2_DATA_TEST_IND (cmd: AT+FDR) | |
| | | * <===== * | |
| (95) | | T30_SGN_REQ (SGN_MCF) | |
| | | * =====> * | |
| (96) | | T30_CMPL_IND (CMPL_EOP) | |
| | | * <===== * | |
| (97) | | DTI2_GETDATA_REQ | |
| | | * =====> * | |
| (98) | | DTI2_DATA_TEST_REQ (msg: +FHS:00) | |
| | | * =====> * | |
| (99) | | DTI2_READY_IND | |
| | | * <===== * | |
| (100) | | T30_DEACTIVATE_REQ | |
| | | * =====> * | |
| (101) | | T30_DEACTIVATE_CNF | |
| | | * <===== * | |
| (102) | | UART_DCD_REQ | |
| | | * =====> * | |
| (103) | | UART_ESCAPE_REQ | |
| | | * =====> * | |
| (104) | | RA_DEACTIVATE_REQ | |
| | | * =====> * | |
| (105) | | RA_DEACTIVATE_CNF | |
| | | * <===== * | |
| (106) | | SIM_SYNC_REQ | |
| | | * =====> * | |
| (107) | | MNCC_DISCONNECT_REQ | |
| | | * =====> * | |
| (108) | | MNCC_RELEASE_IND | |
| | | * <===== * | |
| (109) | | DTI2_DATA_TEST_REQ (msg: OK) | |
| | | * =====> * | |
| (110) | | DTI2_READY_IND | |
| | | * <===== * | |
| (111) | | DTI2_DATA_TEST_IND (AT) | |
| | | * <===== * | |
| (112) | | DTI2_DATA_TEST_REQ (msg: OK) | |
| | | * =====> * | |
| | | | |

Parametrization:

| Primitive | Parameter | Value |
|-------------------------|--|---|
| (1) DTI2_DATA_TEST_IND | link_id parameters sdu F_AT_PLUS_CMOD_FAX | ACI_DTI_LINK_ID_1 NOT_USED |
| (2) MNCC_CONFIGURE_REQ | called_party_sub bcpara sns_mode ctm_ena | NOT_USED NOT_USED NOT_USED CTM_DISABLED |
| (3) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_OK |
| (4) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (5) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (6) MNCC_SETUP_IND | ti ri bcpara bcpara2 progress_desc sig SIG_RING_BACK_TONE_ON calling_party calling_party_sub called_party called_party_sub redirecting_party redirecting_party_sub | NUM_8 RI_CIRCULAR S_BS_FAX S_BS_VOICE PROG_NOT_PRES S_CLG_PARTY S_CLG_PARTY_SUB S_CLD_PARTY S_CLD_PARTY_SUB NOT_USED NOT_USED |
| (7) MNCC_ALERT_REQ | ti | NUM_8 |
| (8) UART_RING_REQ | device dlci UART_DLCI_NOT_MULTIPLEXED line_state | NUM_0 UART_LINE_ON |
| (9) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RING |
| (10) ACI_CMD_IND | cmd_len cmd_seq | LM_RING M_RING |
| (11) UART_RING_CNF | device dlci UART_DLCI_NOT_MULTIPLEXED | NUM_0 |
| (12) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (13) DTI2_DATA_TEST_IND | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_C_ATA |
| (14) MNCC_SETUP_RES | ti | NUM_8 |
| (15) SIM_SYNC_REQ | syncs | SYNC_START_CALL |

| | | |
|---------------------------|--|---|
| (16) MNCC_SYNC_IND | ti cause MNCC_CAUSE_NO_MS_CAUSE chm | NOT_PRESENT_8BIT S_CHN_FULL_9600 |
| (17) MNCC_SETUP_COMPL_IND | ti cause MNCC_CAUSE_SUCCESS | NUM_8 |
| (18) UART_RING_REQ | device dlci UART_DLCI_NOT_MULTIPLEXED line_state | NUM_0 UART_LINE_OFF |
| (19) UART_RING_CNF | device dlci UART_DLCI_NOT_MULTIPLEXED | NUM_0 |
| (20) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (21) RA_ACTIVATE_REQ | model tra_rate user_rate ndb nsb | RA_MODEL_FAX TRA_FULLRATE_9600 URA_9600 NUM_8 NUM_1 |
| (22) RA_ACTIVATE_CNF | ack_flg | RA_ACK |
| (23) T30_ACTIVATE_REQ | trans_rate half_rate threshold frames_per_prim bitorder | NUM_9600 NUM_0 NUM_DEC_90 NUM_3 NUM_0 |
| (24) T30_ACTIVATE_CNF | buf_size_rx buf_size_tx | NUM_4800 NUM_4800 |
| (25) UART_DCD_REQ | device dlci UART_DLCI_NOT_MULTIPLEXED line_state | NUM_0 UART_LINE_ON |
| (26) UART_ESCAPE_REQ | device dlci UART_DLCI_NOT_MULTIPLEXED detection UART_ESC_DETECTION_OFF | NUM_0 |
| (27) T30_CONFIG_REQ | hdlc_report test_mode | NUM_1 NOT_USED |
| (28) T30_CAP_REQ | hdlc_info | NOT_USED |
| (29) T30_PREAMBLE_IND | | |
| (30) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_PLUS_FCO |
| (31) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (32) T30_CAP_IND | hdlc_info | S_HDLC_DCS |
| (33) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_OK |

| | | | |
|------|---------------------|--|---|
| (34) | DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (35) | DTI2_DATA_TEST_IND | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_AT_PLUS_FDR |
| (36) | DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (37) | DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (38) | T30_PHASE_IND | phase | MSG_PHASE |
| (39) | DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_CONNECT |
| (40) | DTI2_DISCONNECT_REQ | link_id cause DTI_CAUSE_NORMAL_CLOSE | ACI_DTI_LINK_ID_1 |
| (41) | UART_DTI_IND | dti_conn UART_DISCONNECT_DTI device dlci UART_DLCI_NOT_MULTIPLEXED | NUM_0 |
| (42) | UART_DTI_REQ | dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED direction link_id entity_name | UART_CONNECT_DTI NUM_0 FALSE ACI_DTI_LINK_ID_1 NOT_USED |
| (43) | T30_DTI_REQ | dti_conn entity_name link_id dti_direction | T30_CONNECT_DTI NOT_USED NOT_USED T30_DTI_INVERTED |
| (44) | UART_DTI_CNF | dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED | UART_CONNECT_DTI NUM_0 |
| (45) | DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (46) | T30_DTI_CNF | dti_conn | T30_CONNECT_DTI |
| (47) | T30_PHASE_IND | phase | BCS_PHASE |
| (48) | T30_DTI_REQ | dti_conn entity_name link_id dti_direction | T30_DISCONNECT_DTI NOT_USED NOT_USED T30_DTI_INVERTED |
| (49) | T30_DTI_CNF | dti_conn | T30_DISCONNECT_DTI |
| (50) | UART_DTI_IND | dti_conn UART_DISCONNECT_DTI device dlci UART_DLCI_NOT_MULTIPLEXED | NUM_0 |

| | | |
|--------------------------|--|---|
| (51) DTI2_CONNECT_REQ | link_id version | ACI_DTI_LINK_ID_1 DTI_VERSION_10 |
| (52) UART_DTI_REQ | dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED direction link_id entity_name | UART_CONNECT_DTI NUM_0 FALSE ACI_DTI_LINK_ID_1 NOT_USED |
| (53) DTI2_CONNECT_CNF | link_id version | ACI_DTI_LINK_ID_1 DTI_VERSION_10 |
| (54) UART_DTI_CNF | dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED | UART_CONNECT_DTI NUM_0 |
| (55) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (56) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (57) T30_EOL_IND | eol | EOL_0 |
| (58) T30_SGN_IND | sgn | SGN_MPS |
| (59) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_PLUS_FPS |
| (60) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (61) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_PLUS_FET0 |
| (62) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (63) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_OK |
| (64) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (65) DTI2_DATA_TEST_IND | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_AT_PLUS_FDR |
| (66) T30_SGN_REQ | sgn | SGN_MCF |
| (67) T30_PHASE_IND | phase | MSG_PHASE |
| (68) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (69) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_CONNECT |
| (70) DTI2_DISCONNECT_REQ | link_id cause | ACI_DTI_LINK_ID_1 DTI_CAUSE_NORMAL_CLOSE |
| (71) UART_DTI_IND | dti_conn | |

| | | |
|-----------------------|---------------------------|--------------------|
| | UART_DISCONNECT_DTI | |
| | device | NUM_0 |
| | dlci | |
| | UART_DLCI_NOT_MULTIPLEXED | |
| (72) UART_DTI_REQ | | |
| | dti_conn | UART_CONNECT_DTI |
| | device | NUM_0 |
| | dlci | |
| | UART_DLCI_NOT_MULTIPLEXED | |
| | direction | FALSE |
| | link_id | ACI_DTI_LINK_ID_1 |
| | entity_name | NOT_USED |
| (73) UART_DTI_CNF | | |
| | dti_conn | UART_CONNECT_DTI |
| | device | NUM_0 |
| | dlci | |
| | UART_DLCI_NOT_MULTIPLEXED | |
| (74) T30_DTI_REQ | | |
| | dti_conn | T30_CONNECT_DTI |
| | entity_name | NOT_USED |
| | link_id | NOT_USED |
| | dti_direction | T30_DTI_INVERTED |
| (75) T30_DTI_CNF | | |
| | dti_conn | T30_CONNECT_DTI |
| (76) T30_PHASE_IND | | |
| | phase | BCS_PHASE |
| (77) T30_DTI_REQ | | |
| | dti_conn | T30_DISCONNECT_DTI |
| | entity_name | NOT_USED |
| | link_id | NOT_USED |
| | dti_direction | T30_DTI_INVERTED |
| (78) T30_DTI_CNF | | |
| | dti_conn | T30_DISCONNECT_DTI |
| (79) UART_DTI_IND | | |
| | dti_conn | |
| | UART_DISCONNECT_DTI | |
| | device | NUM_0 |
| | dlci | |
| | UART_DLCI_NOT_MULTIPLEXED | |
| (80) DTI2_CONNECT_REQ | | |
| | link_id | ACI_DTI_LINK_ID_1 |
| | version | DTI_VERSION_10 |
| (81) UART_DTI_REQ | | |
| | dti_conn | UART_CONNECT_DTI |
| | device | NUM_0 |
| | dlci | |
| | UART_DLCI_NOT_MULTIPLEXED | |
| | direction | FALSE |
| | link_id | ACI_DTI_LINK_ID_1 |
| | entity_name | NOT_USED |
| (82) DTI2_CONNECT_CNF | | |
| | link_id | ACI_DTI_LINK_ID_1 |
| | version | DTI_VERSION_10 |
| (83) UART_DTI_CNF | | |
| | dti_conn | UART_CONNECT_DTI |
| | device | NUM_0 |
| | dlci | |
| | UART_DLCI_NOT_MULTIPLEXED | |

| | | | |
|-------|---------------------|---|---|
| (84) | DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (85) | DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (86) | T30_EOL_IND | eol | EOL_0 |
| (87) | T30_SGN_IND | sgn | SGN_EOP |
| (88) | DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_PLUS_FPS |
| (89) | DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (90) | DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_PLUS_FET2 |
| (91) | DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (92) | DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_OK |
| (93) | DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (94) | DTI2_DATA_TEST_IND | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_AT_PLUS_FDR |
| (95) | T30_SGN_REQ | sgn | SGN_MCF |
| (96) | T30_CMPL_IND | cmpl | CMPL_EOP |
| (97) | DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (98) | DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_PLUS_FHS |
| (99) | DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (100) | T30_DEACTIVATE_REQ | | |
| (101) | T30_DEACTIVATE_CNF | | |
| (102) | UART_DCD_REQ | device dlci UART_DLCI_NOT_MULTIPLEXED line_state | NUM_0 UART_LINE_OFF |
| (103) | UART_ESCAPE_REQ | device dlci UART_DLCI_NOT_MULTIPLEXED detection UART_ESC_DETECTION_ON | NUM_0 |
| (104) | RA_DEACTIVATE_REQ | | |
| (105) | RA_DEACTIVATE_CNF | | |
| (106) | SIM_SYNC_REQ | syncs | SYNC_STOP_CALL |
| (107) | MNCC_DISCONNECT_REQ | ti cause MNCC_CAUSE_CALL_CLEAR fac_inf ss_version | NUM_8 NOT_USED NOT_USED |

| | | |
|--------------------------|--------------------------------------|--|
| (108) MNCC_RELEASE_IND | ti cause MNCC_CAUSE_CALL_CLEAR | NUM_8 |
| (109) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_OK |
| (110) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (111) DTI2_DATA_TEST_IND | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_AT |
| (112) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_OK |

History: 27.06.2001 ACI Initial
 07.10.2002 TLU UART_ESCAPE_REQ inserted
 07.10.2002 TLU "OK" added at the end of the TC

4.7 AT commands to data flow

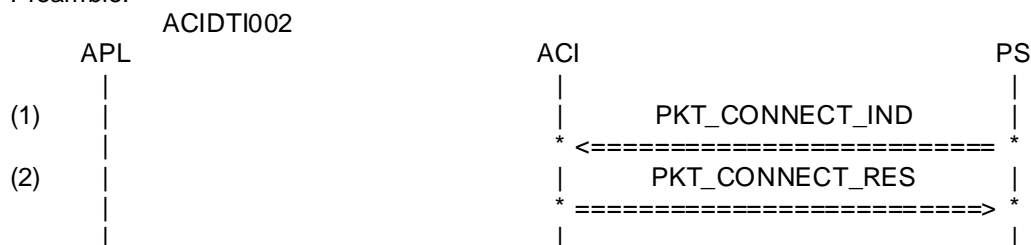
4.7.1 ACIDTI080: Entity PKTIO registers in ACI, successfull

Description:

Variants:

<A>...

Preamble:



Parametrization:

| Primitive | Parameter | Value |
|---------------------|------------------------|-------|
| (1) PKT_CONNECT_IND | device_no | NUM_0 |
| <A> | dio_dcb | |
| | DEFAULT_DCB_FROM_DIO_1 | |
| | dio_dcb | |
| | DEFAULT_DCB_FROM_DIO_2 | |
| (2) PKT_CONNECT_RES | device_no | NUM_0 |
| <A> | dio_dcb | |
| | DEFAULT_DCB_FROM_ACI_1 | |
| | dio_dcb | |
| | DEFAULT_DCB_FROM_ACI_2 | |

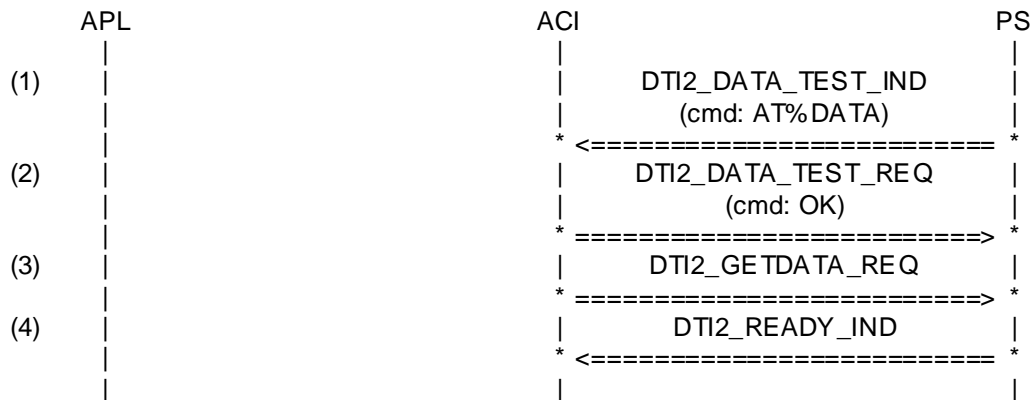
History: 11.11.02 RM Initial

4.7.2 ACIDTI081:Set Data Flow for packet data

Description:

Preamble:

ACIDTI080A



Parametrization:

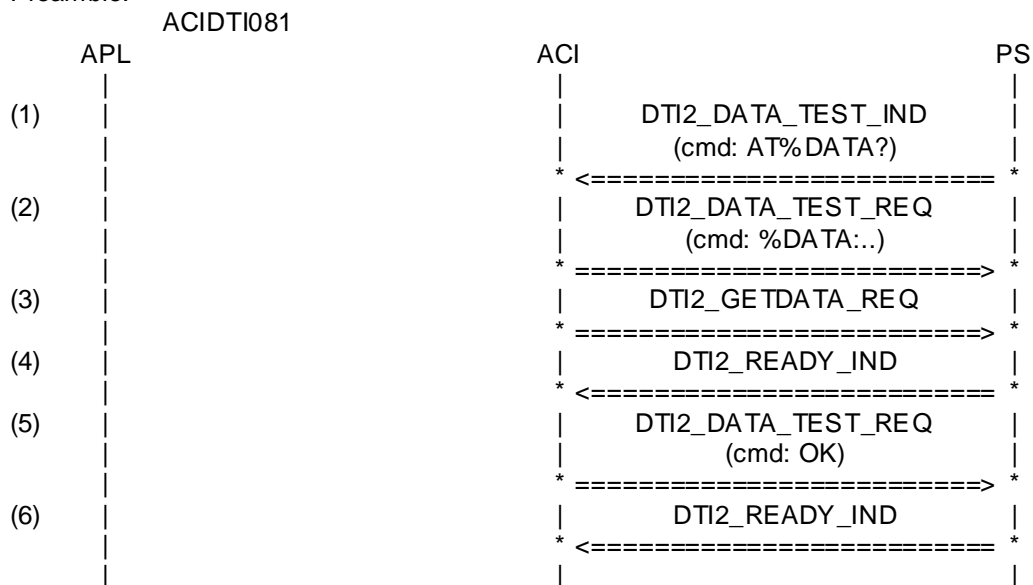
| Primitive | Parameter | Value |
|------------------------|------------------------------|---|
| (1) DTI2_DATA_TEST_IND | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_AT_PERC_DATA |
| (2) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_OK |
| (3) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (4) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |

History: 20.01.03 RM Initial

4.7.3 ACIDTI082:Query Data Flow for packet data

Description:

Preamble:



Parametrization:

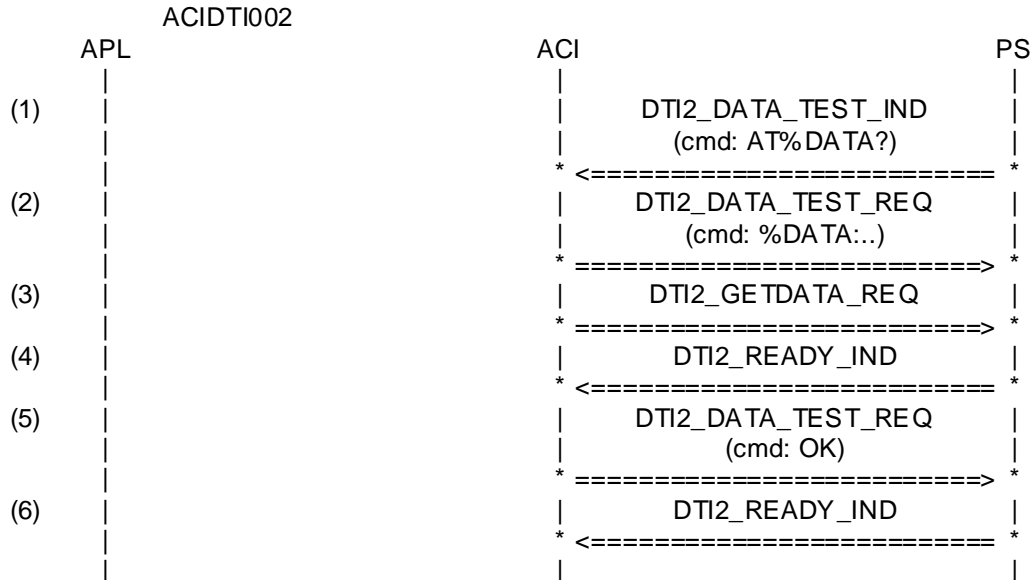
| Primitive | Parameter | Value |
|------------------------|------------------------------|---|
| (1) DTI2_DATA_TEST_IND | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_AT_PERC_DATA_Q |
| (2) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_PERC_DATA |
| (3) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (4) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (5) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_OK |
| (6) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |

History: 20.01.03 RM Initial

4.7.4 ACIDTI083:Query Data Flow for packet data, no redirection has been set

Description: in difference to ACIDTI082 we use here another preamble, so that there has not been set a redirection.

Preamble:



Parametrization:

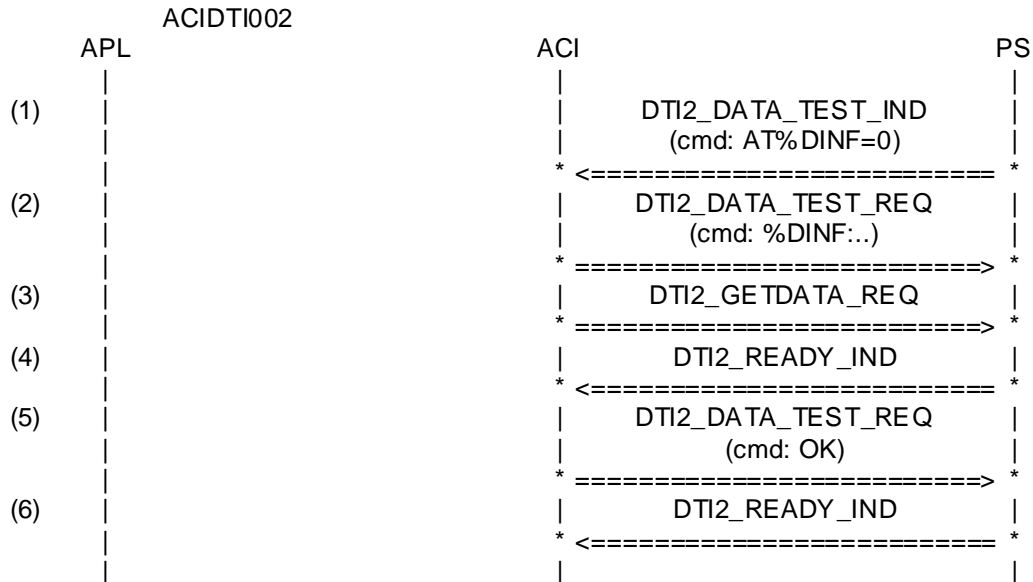
| Primitive | Parameter | Value |
|------------------------|------------------------------|--|
| (1) DTI2_DATA_TEST_IND | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_AT_PERC_DATA_Q |
| (2) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_PERC_DATA_NO_RED |
| (3) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (4) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (5) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_OK |
| (6) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |

History: 20.01.03 RM Initial

4.7.5 ACIDTI084: Show data channel information for current channel

Description: with ACIDTI002 we initialised a UART, so we have an AT cmd channel

Preamble:



Parametrization:

| Primitive | Parameter | Value |
|------------------------|------------------------------|---|
| (1) DTI2_DATA_TEST_IND | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_AT_PERC_DINF_Q |
| (2) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_PERC_DINF |
| (3) DTI2_GETDATA_REQ | link_id | ACI_DTI_LINK_ID_1 |
| (4) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |
| (5) DTI2_DATA_TEST_REQ | link_id parameters sdu | ACI_DTI_LINK_ID_1 NOT_USED F_RESP_OK |
| (6) DTI2_READY_IND | link_id | ACI_DTI_LINK_ID_1 |

History: 20.01.03 RM Initial

Appendices

A. Acronyms

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

B. Glossary

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