



**Technical Document**

**GSM FAX & DATA SERVICES**

**TEST SPECIFICATION**

**ACIDTI**

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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

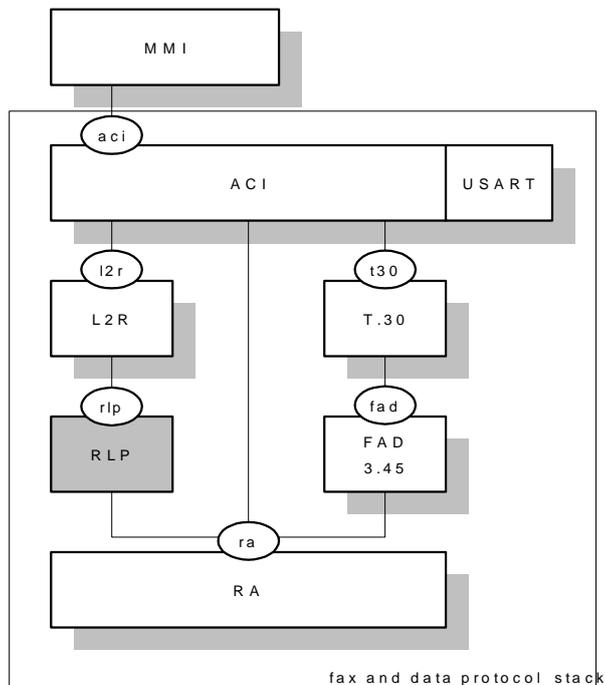
## 1.3 Terms

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, 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)
|
|
|
    
```

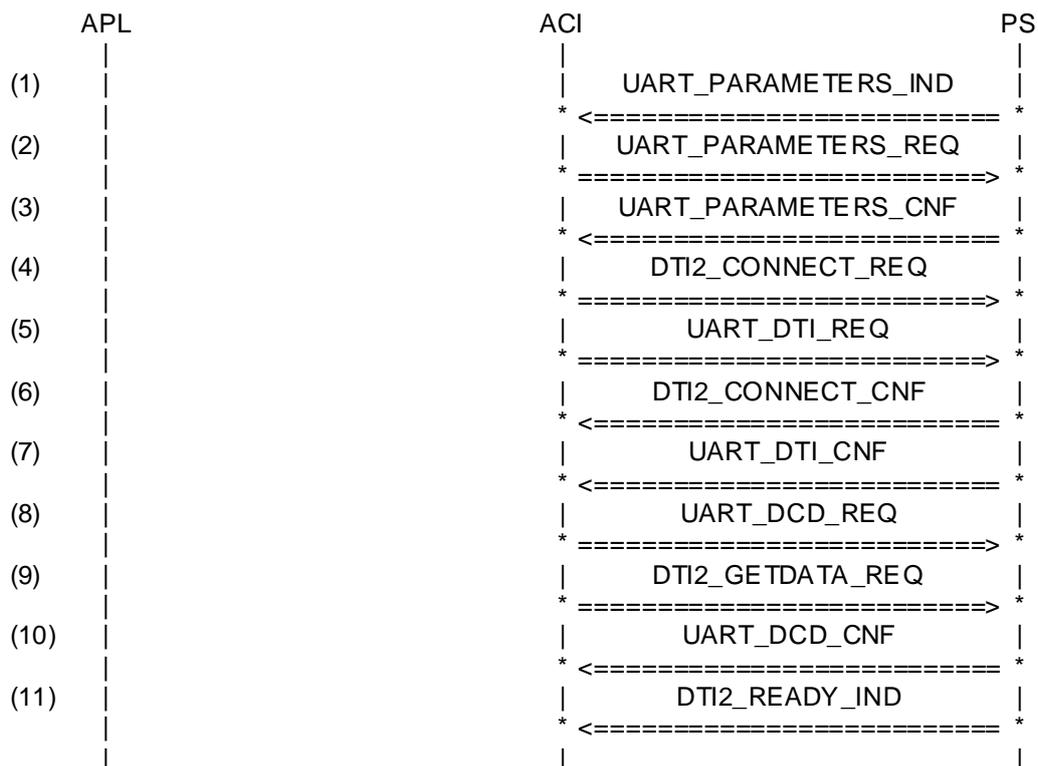
**Parametrization:**

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
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



**Parametrization:**

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) UART_PARAMETERS_IND	uart_instances	NUM_1
(2) UART_PARAMETERS_REQ	device comPar	NUM_0 NOT_USED
(3) UART_PARAMETERS_CNF	device	NUM_0
(4) DTI2_CONNECT_REQ	link_id version	ACI_DTI_LINK_ID_1 DTI_VERSION_10
(5) 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) DTI2_CONNECT_CNF	link_id version	ACI_DTI_LINK_ID_1 DTI_VERSION_10
(7) UART_DTI_CNF	dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED	UART_CONNECT_DTI NUM_0



(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

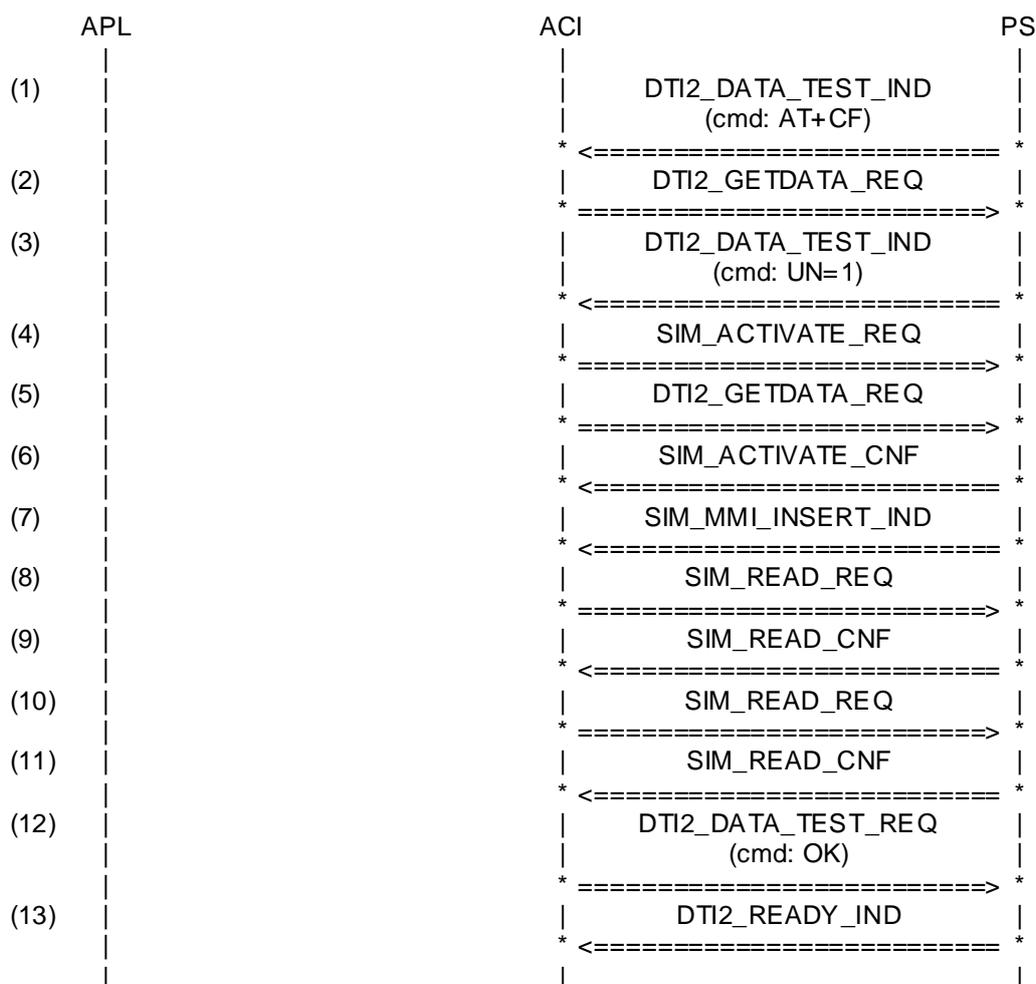
History:           15.02.01           Clb    Initial  
                   29.07.02           Tlu    Adaptation to DTI2

## 4.2 Simple Command Handling

### 4.2.1 ACIDTI011: Receive a command

Description:  
 receive the command: AT+CFUN=1

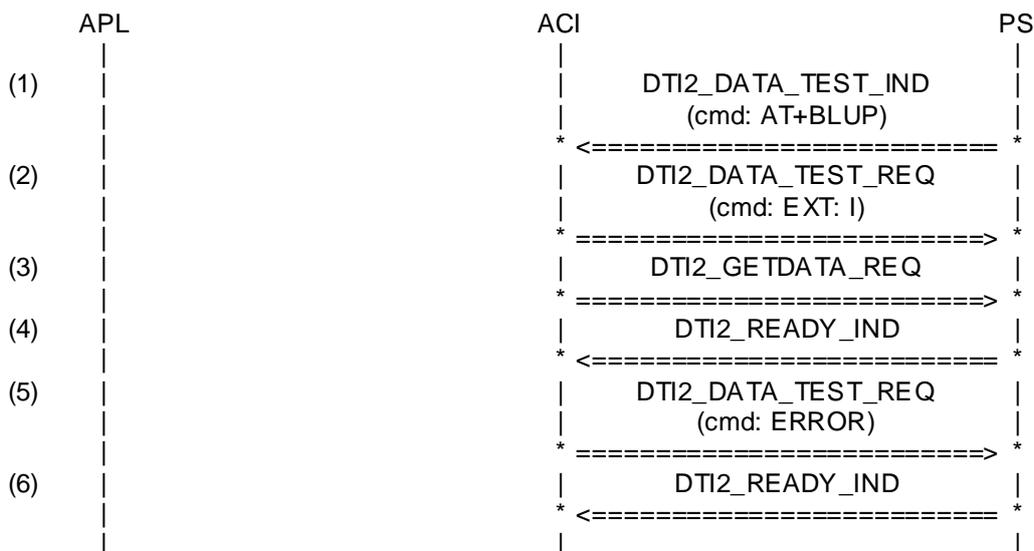
Preamble:  
 ACIDTI002



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





**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	ACI_DTI_LINK_ID_1 DTI_CAUSE_NORMAL_CLOSE
(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



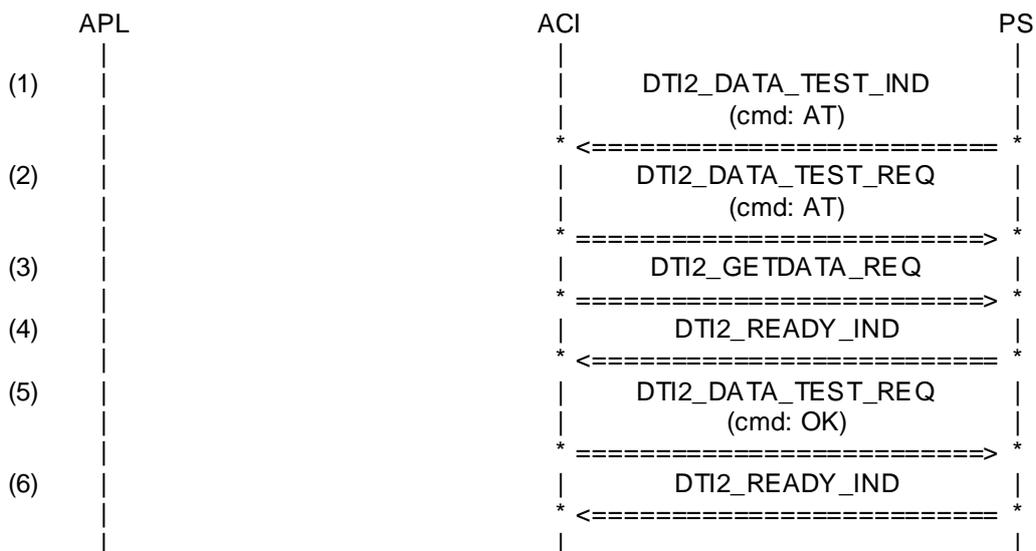
(3) DTI2_CONNECT_REQ	link_id version	ACI_DTI_LINK_ID_2 DTI_VERSION_10
(4) UART_DTI_REQ	dti_conn device dlci direction link_id entity_name	UART_CONNECT_DTI NUM_0 NUM_2 NUM_0 ACI_DTI_LINK_ID_2 NOT_USED
(5) DTI2_CONNECT_CNF	link_id version	ACI_DTI_LINK_ID_2 DTI_VERSION_10
(6) UART_DTI_CNF	dti_conn device 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:**

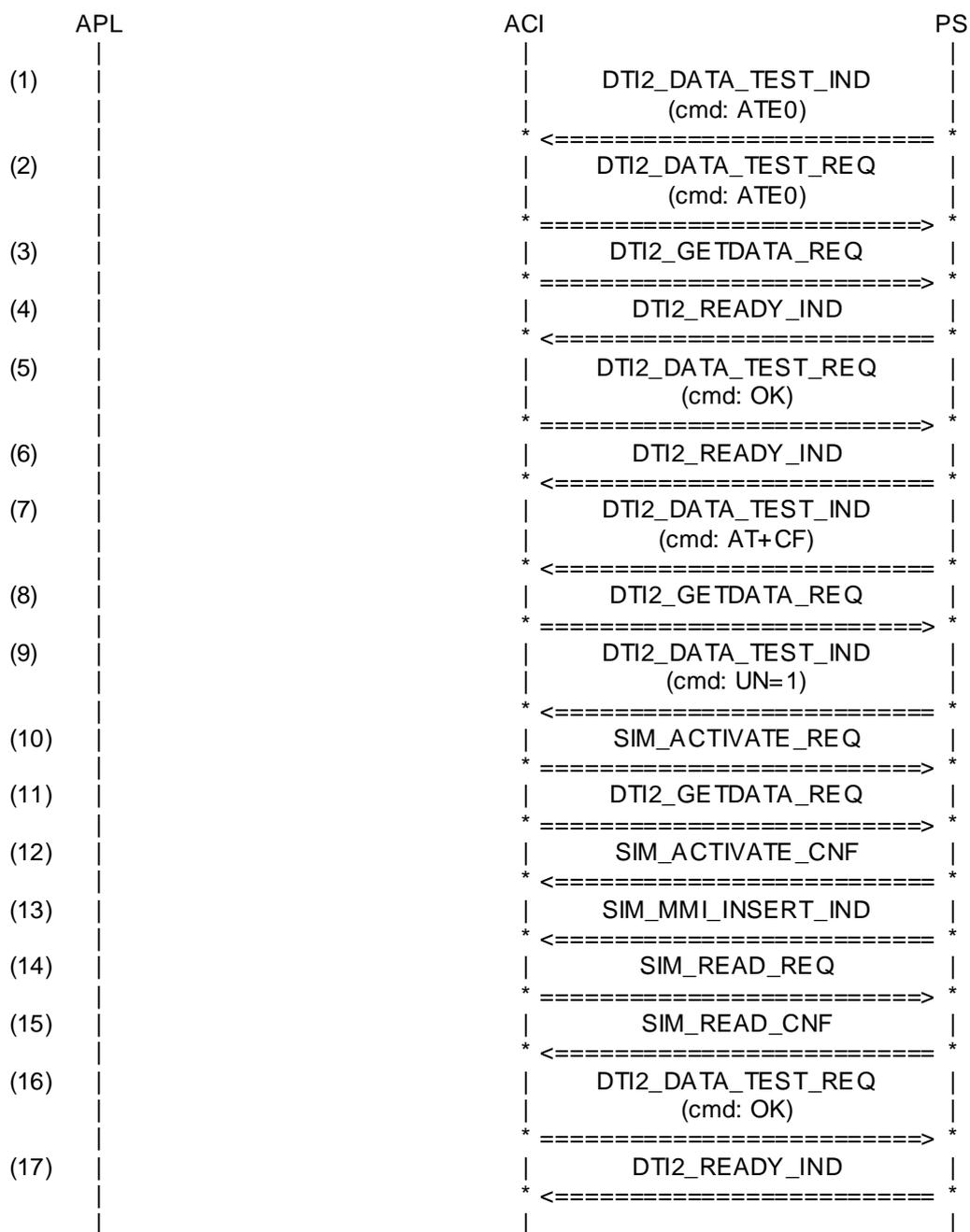
Primitive	Parameter	Value
(1) DTI2_DATA_TEST_IND	link_id parameters sdu	ACI_DTI_LINK_ID_2 NOT_USED F_AT
(2) DTI2_DATA_TEST_REQ	link_id parameters sdu	ACI_DTI_LINK_ID_2 NOT_USED F_AT
(3) DTI2_GETDATA_REQ	link_id	ACI_DTI_LINK_ID_2
(4) DTI2_READY_IND	link_id	ACI_DTI_LINK_ID_2
(5) DTI2_DATA_TEST_REQ	link_id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



**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



	dlci	NUM_2
	direction	NUM_0
	link_id	ACI_DTI_LINK_ID_2
	entity_name	NOT_USED
(5) UART_ERROR_IND		
	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

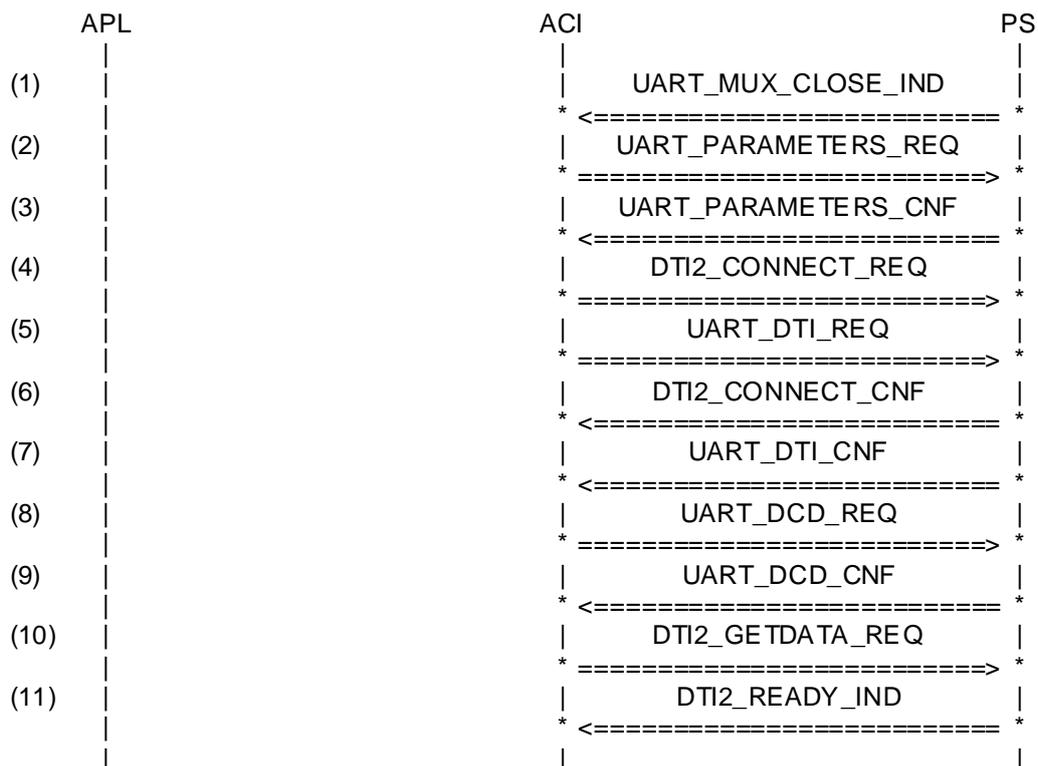
(3)	DTI2_DISCONNECT_REQ	link_id cause DTI_CAUSE_NORMAL_CLOSE	ACI_DTI_LINK_ID_1
(4)	UART_MUX_START_REQ	device mode UART_MUX_MODE_ADVANCED frame_type UART_MUX_FRAME_UIH n1 UART_MUX_N1_ADVANCED_DEFAULT t1 UART_MUX_T1_DEFAULT n2 UART_MUX_N2_DEFAULT t2 UART_MUX_T2_DEFAULT t3 UART_MUX_T3_DEFAULT	NUM_0
(5)	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



**Parametrization:**

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) UART_MUX_CLOSE_IND	device	NUM_0
(2) UART_PARAMETERS_REQ	device comPar	NUM_0 NOT_USED
(3) UART_PARAMETERS_CNF	device	NUM_0
(4) DTI2_CONNECT_REQ	link_id version	ACI_DTI_LINK_ID_1 DTI_VERSION_10
(5) 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) DTI2_CONNECT_CNF	link_id version	ACI_DTI_LINK_ID_1 DTI_VERSION_10
(7) UART_DTI_CNF	dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED	UART_CONNECT_DTI NUM_0

(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

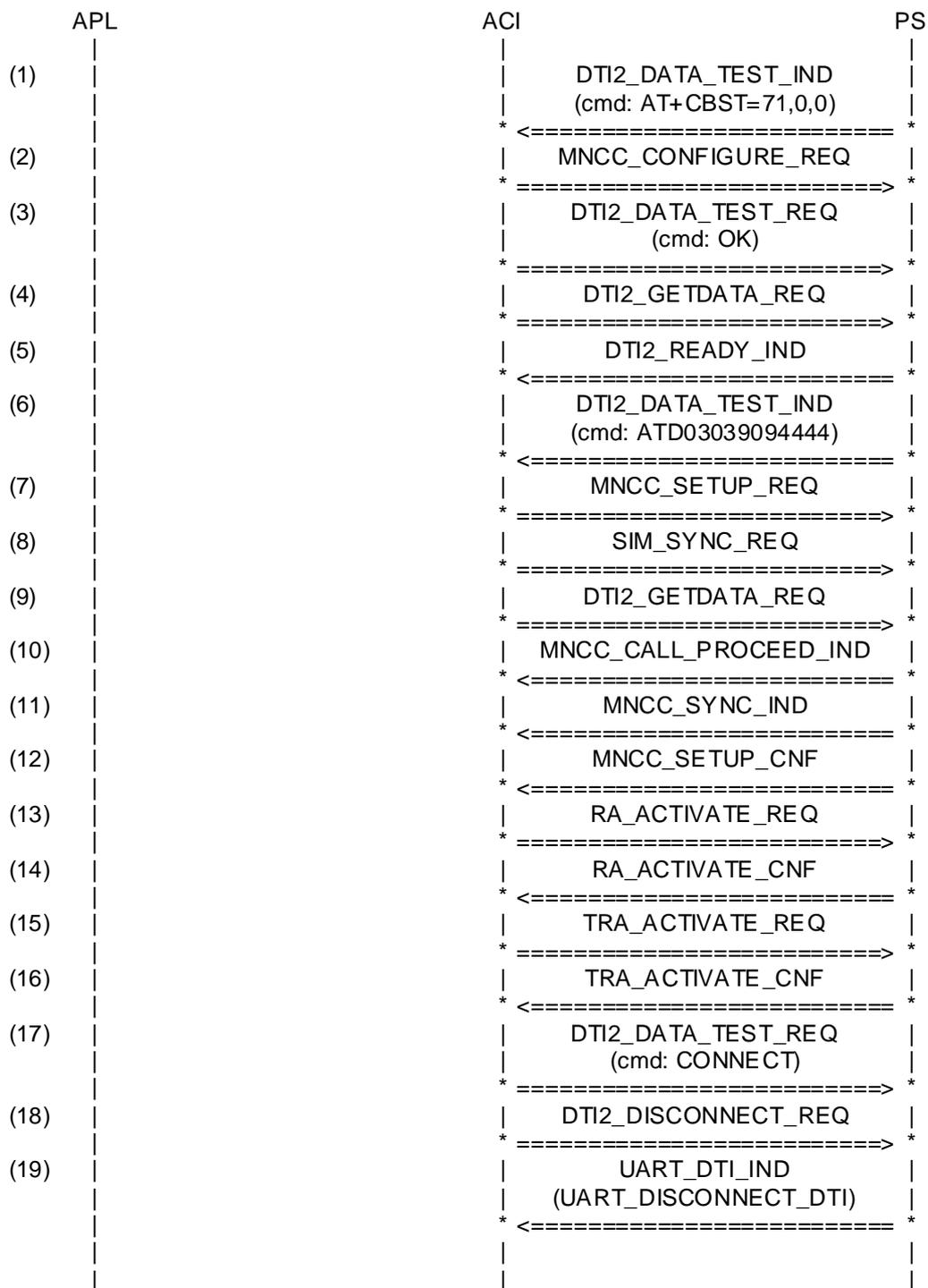
### 4.4.1 ACIDTI031: Transparent Data call over DTI (part 1)

Description:

.test connect from DTI

Preamble:

ACIDTI002



**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

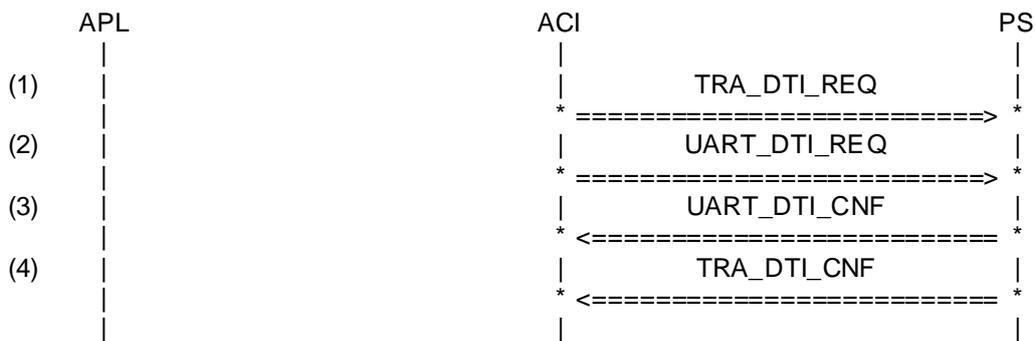
	ndb	NUM_8
	nsb	NOT_USED
(14) RA_ACTIVATE_CNF	ack_flg	RA_ACK
(15) TRA_ACTIVATE_REQ		
(16) TRA_ACTIVATE_CNF	ack_flg	NOT_USED
(17) DTI2_DATA_TEST_REQ	link_id	ACI_DTI_LINK_ID_1
	parameters	NOT_USED
	sdu	F_RESP_CONNECT
(18) DTI2_DISCONNECT_REQ	link_id	ACI_DTI_LINK_ID_1
	cause	
	DTI_CAUSE_NORMAL_CLOSE	
(19) 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	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	diagnostic	NOT_PRESENT_8BIT
	progress_desc	PROG_NOT_PRES
(2) SIM_SYNC_REQ	synccs	SYNC_STOP_CALL
(3) MNCC_RELEASE_CNF	ti	NOT_USED
	cause	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

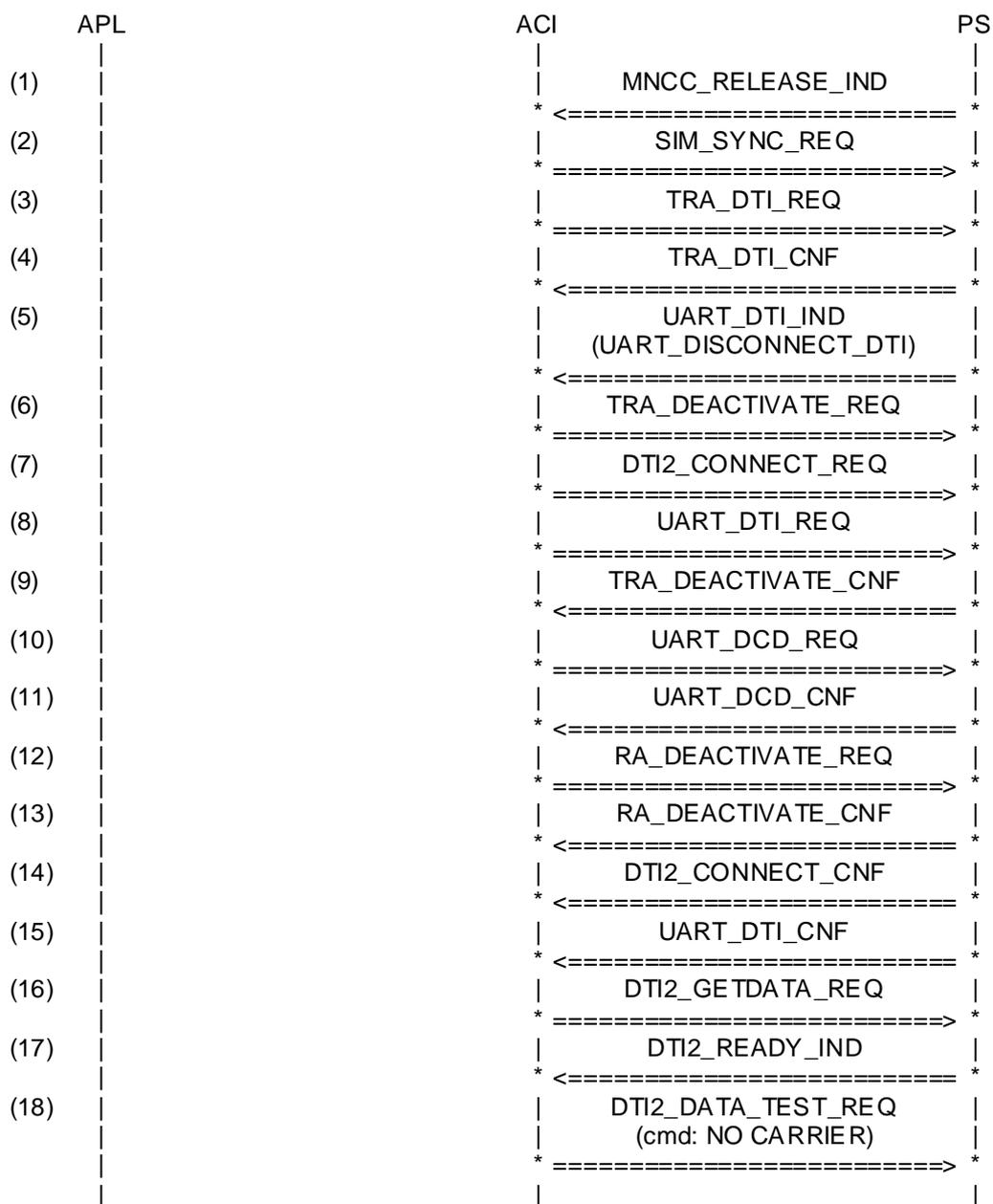
ACI\_DTI\_LINK\_ID\_1  
NOT\_USED  
F\_RESP\_NO\_CARRIER

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

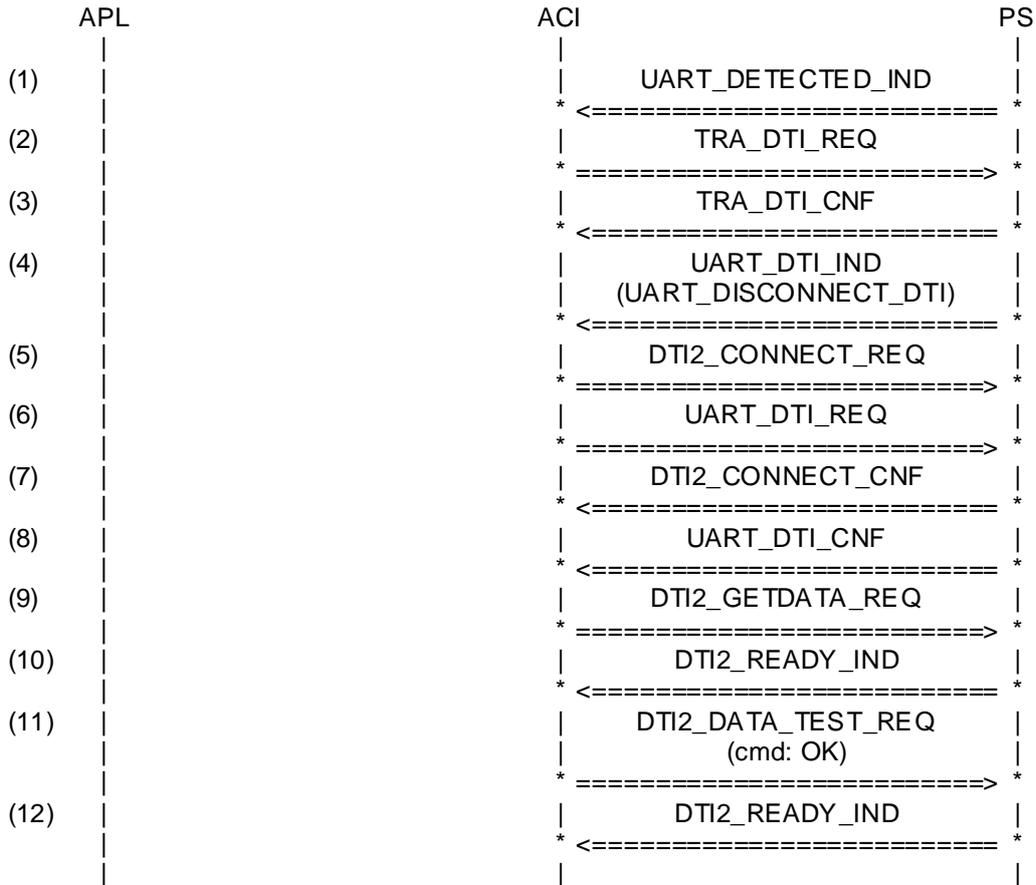
(4) TRA_DTI_CNF	dti_conn TRA_DISCONNECT_DTI link_id	ACI_DTI_LINK_ID_1
(5) UART_DTI_IND	dti_conn UART_DISCONNECT_DTI device dlci UART_DLCI_NOT_MULTIPLEXED	NUM_0
(6) TRA_DEACTIVATE_REQ		
(7) DTI2_CONNECT_REQ	link_id version	ACI_DTI_LINK_ID_1 DTI_VERSION_10
(8) UART_DTI_REQ	dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED 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:**

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) UART_DETECTED_IND	device	NUM_0
	dpci	
	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

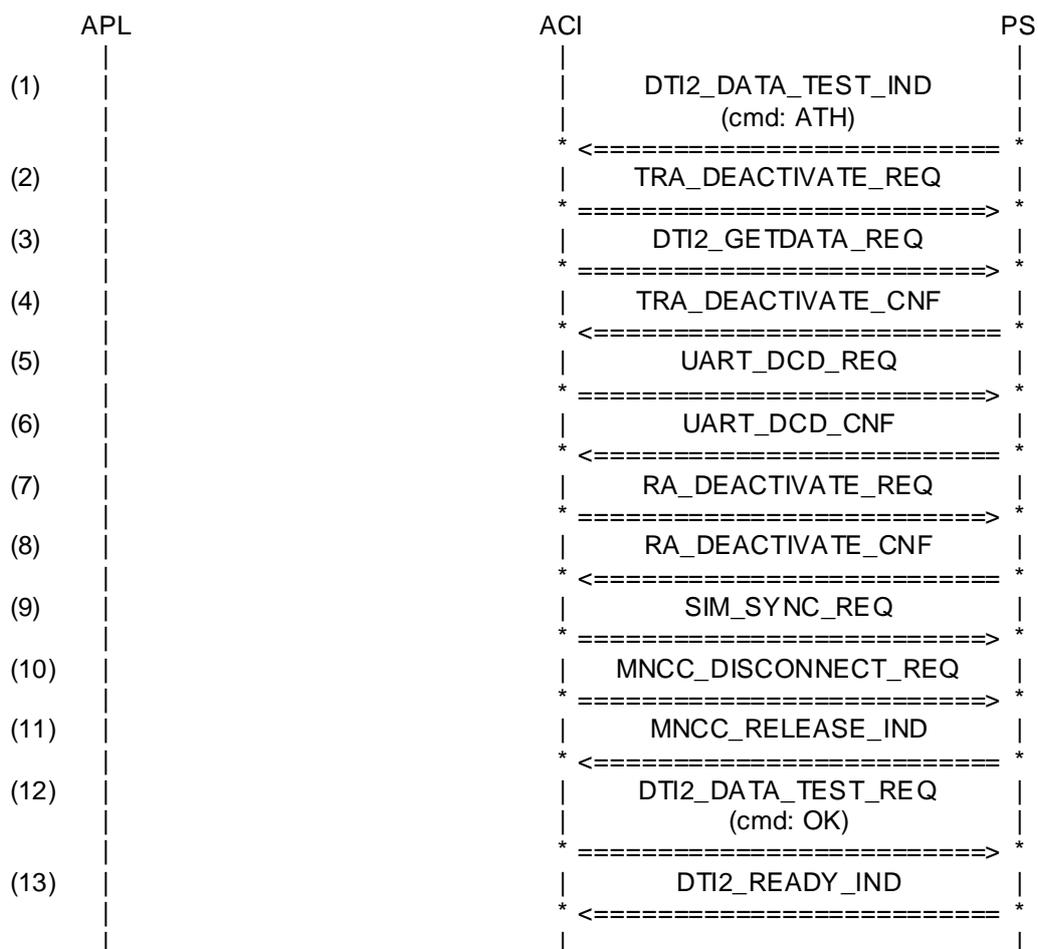
(3) TRA_DTI_CNF	dti_conn TRA_DISCONNECT_DTI link_id	ACI_DTI_LINK_ID_1
(4) UART_DTI_IND	dti_conn UART_DISCONNECT_DTI device dlci UART_DLCI_NOT_MULTIPLEXED	NUM_0
(5) DTI2_CONNECT_REQ	link_id version	ACI_DTI_LINK_ID_1 DTI_VERSION_10
(6) UART_DTI_REQ	dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED direction link_id entity_name	UART_CONNECT_DTI NUM_0 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	ACI_DTI_LINK_ID_1
	parameters	NOT_USED
	sdu	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	NUM_0
	dlci	UART_DLCI_NOT_MULTIPLEXED
	line_state	UART_LINE_OFF
(6) UART_DCD_CNF	device	NUM_0
	dlci	UART_DLCI_NOT_MULTIPLEXED
(7) RA_DEACTIVATE_REQ		
(8) RA_DEACTIVATE_CNF		

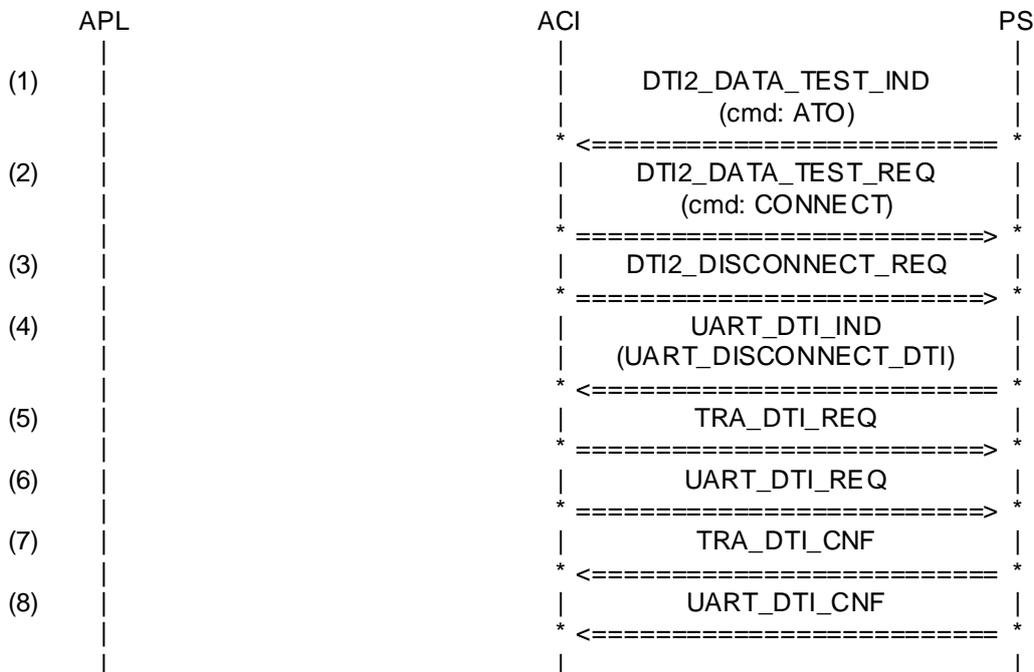
(9) SIM_SYNC_REQ	synccs	SYNC_STOP_CALL
(10) MNCC_DISCONNECT_REQ	ti cause MNCC_CAUSE_CALL_CLEAR fac_inf ss_version	NUM_0  NOT_USED NOT_USED
(11) MNCC_RELEASE_IND	ti cause MNCC_CAUSE_CALL_CLEAR	NUM_0
(12) DTI2_DATA_TEST_REQ	link_id parameters sdu	ACI_DTI_LINK_ID_1 NOT_USED F_RESP_OK
(13) DTI2_READY_IND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



Parametrization:

Primitive	Parameter	Value
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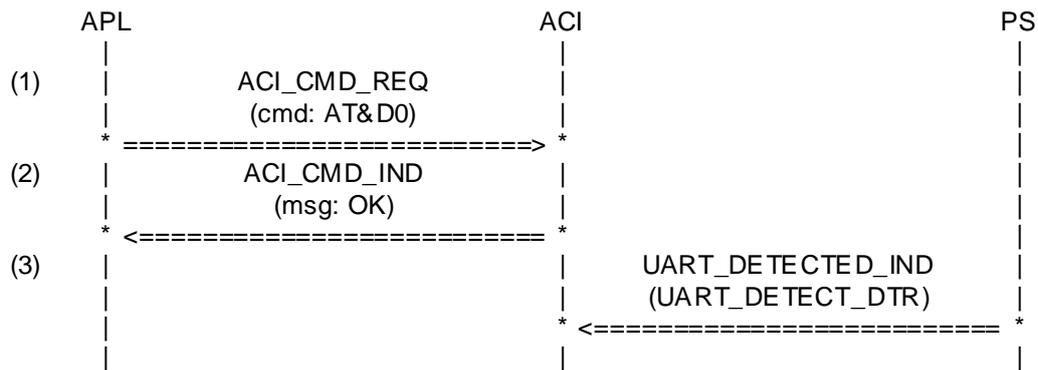
(1) DTI2_DATA_TEST_IND	link_id parameters sdu	ACI_DTI_LINK_ID_1 NOT_USED F_AT_O
(2) DTI2_DATA_TEST_REQ	link_id parameters sdu	ACI_DTI_LINK_ID_1 NOT_USED F_RESP_CONNECT
(3) DTI2_DISCONNECT_REQ	link_id cause DTI_CAUSE_NORMAL_CLOSE	ACI_DTI_LINK_ID_1
(4) UART_DTI_IND	dti_conn UART_DISCONNECT_DTI device dlci UART_DLCI_NOT_MULTIPLEXED	NUM_0
(5) TRA_DTI_REQ	dti_conn link_id entity_name dti_direction	TRA_CONNECT_DTI ACI_DTI_LINK_ID_1 NOT_USED NOT_USED
(6) 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
(7) TRA_DTI_CNF	dti_conn link_id	TRA_CONNECT_DTI ACI_DTI_LINK_ID_1
(8) 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

#### 4.4.8 ACIDTI038: DTR detected (AT&D0)

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

Preamble: ACIDTI032



**Parametrization:**

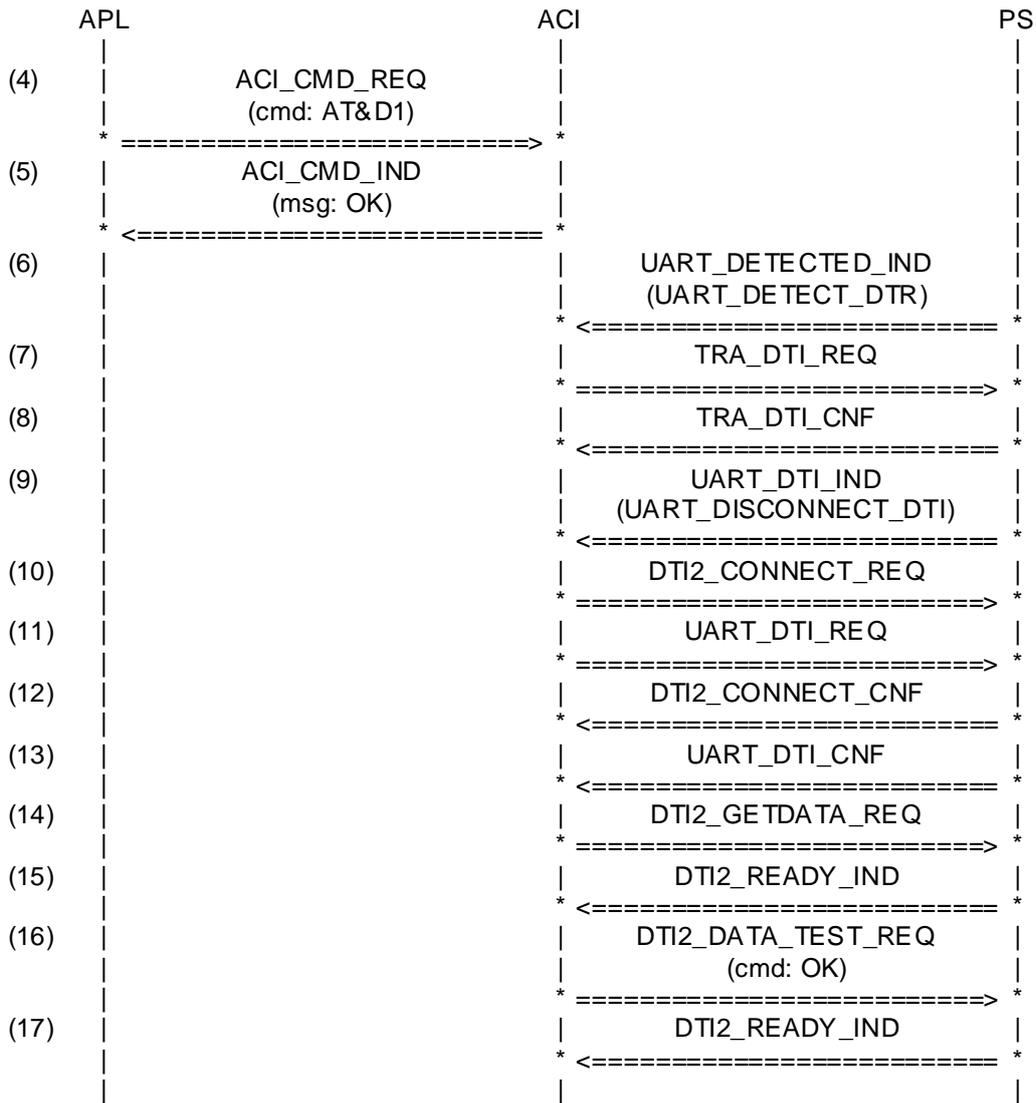
Primitive	Parameter	Value
(1) ACI_CMD_REQ	cmd_src	CMD_SRC_EXT
	cmd_len	LC_AND_D
	cmd_seq	C_AND_D0
(2) ACI_CMD_IND	cmd_len	LM_OK
	cmd_seq	M_OK
(3) UART_DETECTED_IND	device	NUM_0
	dlci	
	UART_DLCI_NOT_MULTIPLEXED	
	cause	UART_DETECT_DTR

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_SRC_EXT
	cmd_len	LC_AND_D
	cmd_seq	C_AND_D1
(2) ACI_CMD_IND	cmd_len	LM_OK
	cmd_seq	M_OK
(3) UART_DETECTED_IND	device	NUM_0
	dldci	UART_DLDCI_NOT_MULTIPLEXED
	cause	UART_DETECT_DTR
(4) TRA_DTI_REQ	dti_conn	TRA_DISCONNECT_DTI
	link_id	ACI_DTI_LINK_ID_1

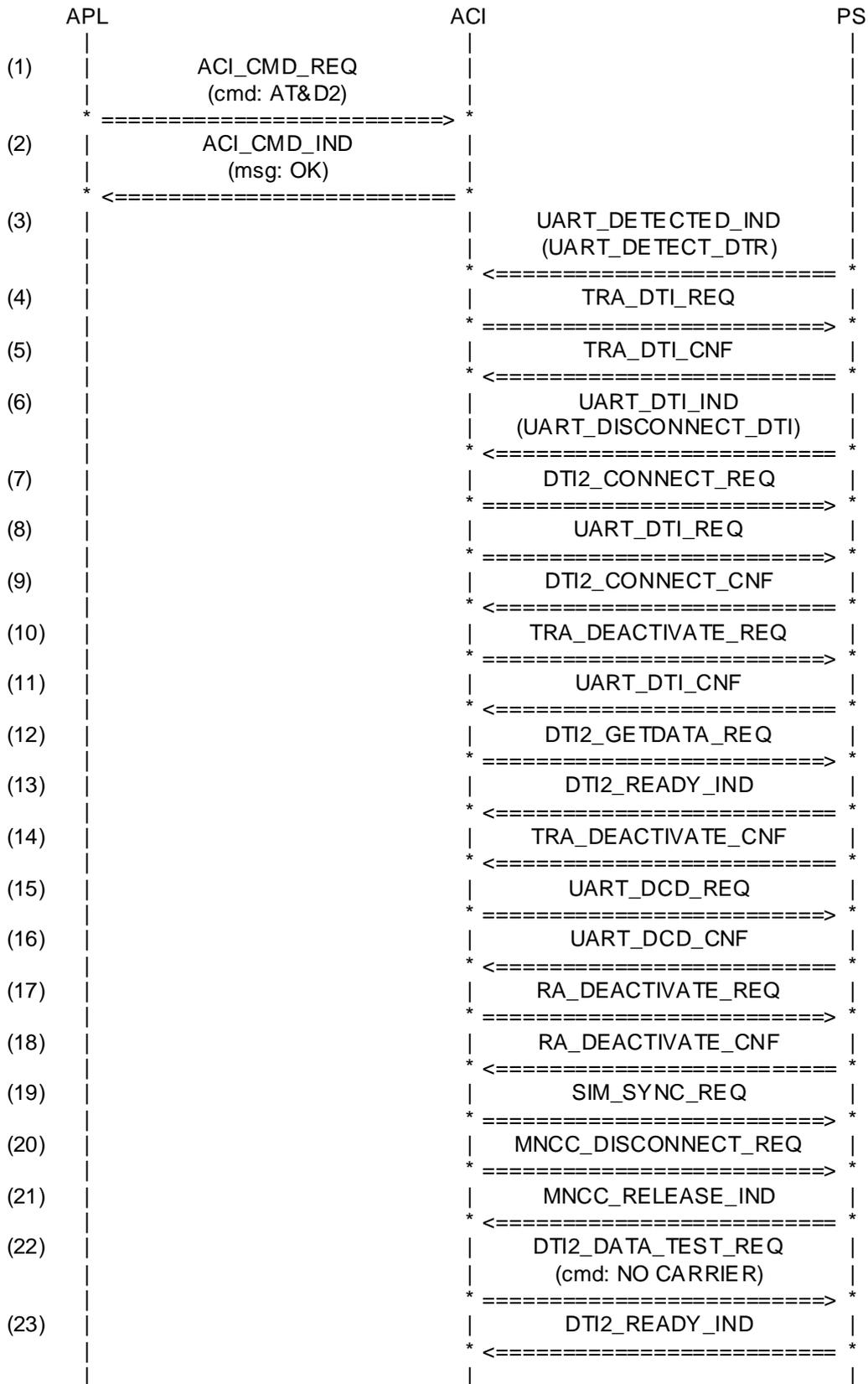
	entity_name	NOT_USED
	dti_direction	NOT_USED
(5) TRA_DTI_CNF	dti_conn TRA_DISCONNECT_DTI link_id	ACI_DTI_LINK_ID_1
(6) UART_DTI_IND	dti_conn UART_DISCONNECT_DTI device dlci UART_DLCI_NOT_MULTIPLEXED	NUM_0
(7) DTI2_CONNECT_REQ	link_id version	ACI_DTI_LINK_ID_1 DTI_VERSION_10
(8) UART_DTI_REQ	dti_conn 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 clear-down of the call (ATH)).

Preamble: ACIDTI032



**Parametrization:**

Primitive	Parameter	Value
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(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	synccs	SYNC_STOP_CALL
(20)	MNCC_DISCONNECT_REQ	ti cause MNCC_CAUSE_CALL_CLEAR fac_inf ss_version	NUM_0  NOT_USED NOT_USED
(21)	MNCC_RELEASE_IND	ti cause MNCC_CAUSE_CALL_CLEAR	NUM_0
(22)	DTI2_DATA_TEST_REQ	link_id parameters sdu	ACI_DTI_LINK_ID_1 NOT_USED F_RESP_NO_CARRIER
(23)	DTI2_READY_IND	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
	dpci	
	UART_DLPCI_NOT_MULTIPLEXED	
	cause	UART_DETECT_ESC

(2) TRA_DTI_REQ	dti_conn TRA_DISCONNECT_DTI link_id entity_name dti_direction	ACI_DTI_LINK_ID_1 NOT_USED 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 NOT_USED 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_DATA_TEST_IND	link_id parameters sdu	ACI_DTI_LINK_ID_1 NOT_USED F_AT_O
(13) DTI2_READY_IND	link_id	ACI_DTI_LINK_ID_1
(14) DTI2_DATA_TEST_REQ	link_id parameters sdu	ACI_DTI_LINK_ID_1 NOT_USED 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	syncs	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_FULLLRATE_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_FULLLRATE_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	

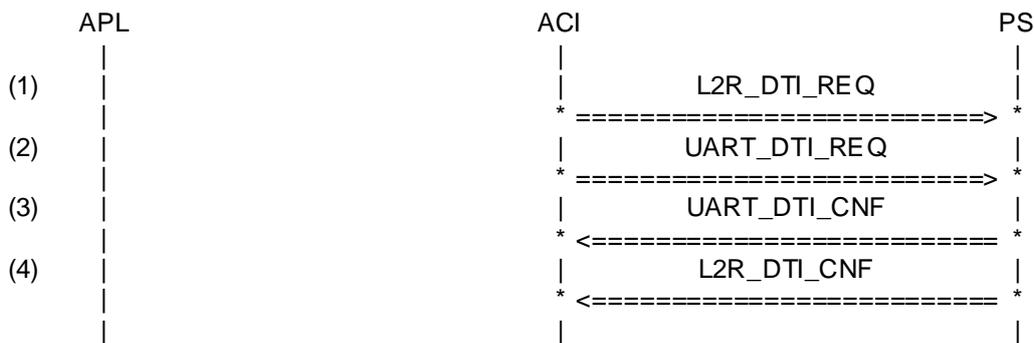
History: 15.02.01 Clb Initial  
 29.07.02 Tlu Adaptation to DTI2

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

Description:

Preamble:

ACIDTI051



Parametrization:

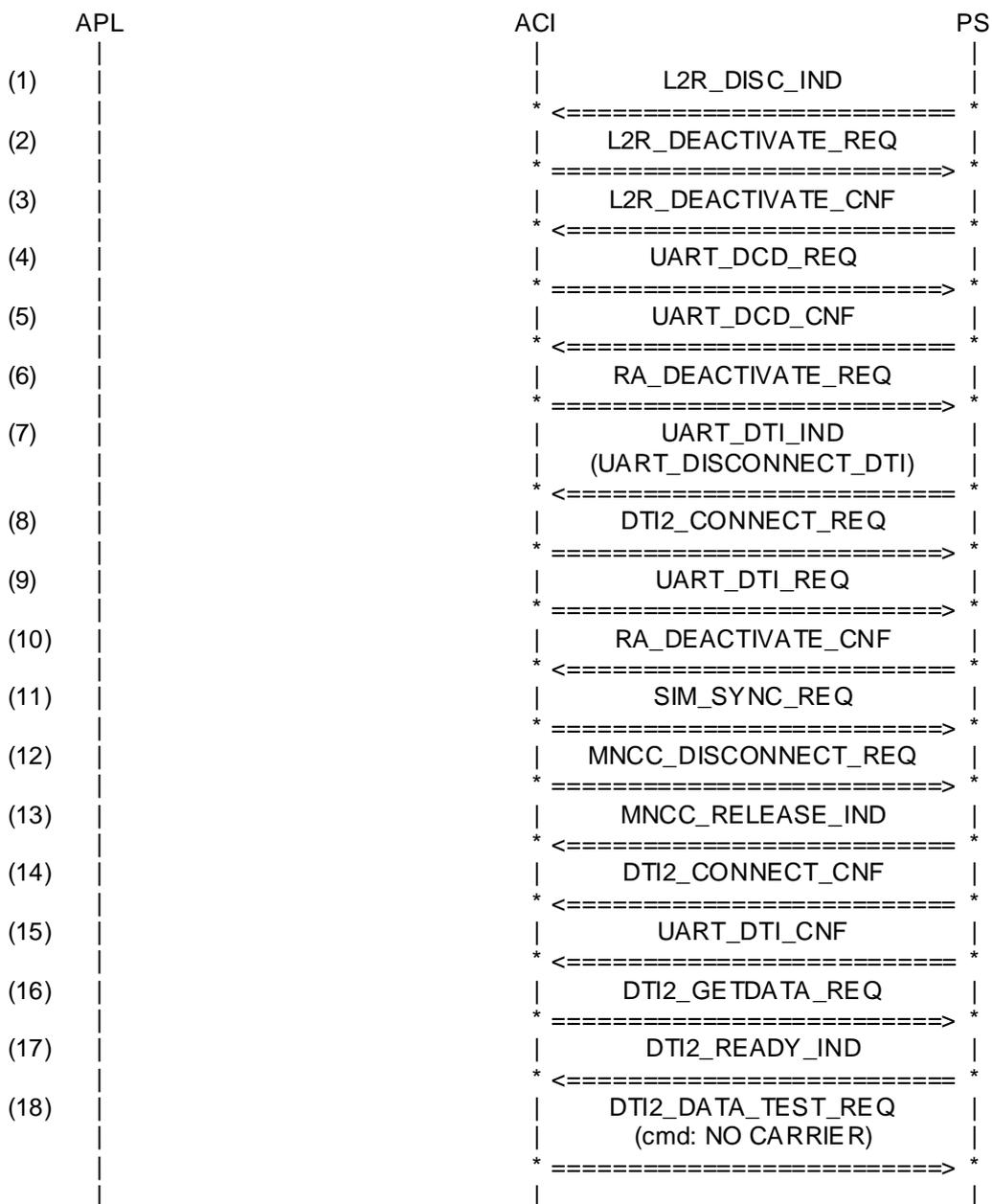
Primitive	Parameter	Value
(1) L2R_DTI_REQ	dti_conn	L2R_CONNECT_DTI
	entity_name	NOT_USED
	link_id	ACI_DTI_LINK_ID_1
	dti_direction	L2R_DTI_INVERTED
(2) UART_DTI_REQ	dti_conn	UART_CONNECT_DTI
	device	NUM_0
	dlci	UART_DLCI_NOT_MULTIPLEXED
	direction	NUM_0
	link_id	ACI_DTI_LINK_ID_1
	entity_name	NOT_USED
(3) UART_DTI_CNF	dti_conn	UART_CONNECT_DTI
	device	NUM_0
	dlci	UART_DLCI_NOT_MULTIPLEXED
	dti_direction	NOT_USED
(4) L2R_DTI_CNF	dti_conn	L2R_CONNECT_DTI
	link_id	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  MNCC_CAUSE_CALL_CLEAR NOT_USED NOT_USED
(13) MNCC_RELEASE_IND	ti cause MNCC_CAUSE_CALL_CLEAR	NUM_0  MNCC_CAUSE_CALL_CLEAR
(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	NUM_0
	cause	MNCC_CAUSE_CALL_CLEAR
	diagnostic	NOT_PRESENT_8BIT
	progress_desc	PROG_NOT_PRES
(2) SIM_SYNC_REQ	synccs	SYNC_STOP_CALL
(3) MNCC_RELEASE_CNF	ti	NOT_USED
	cause	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 NOT_USED 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

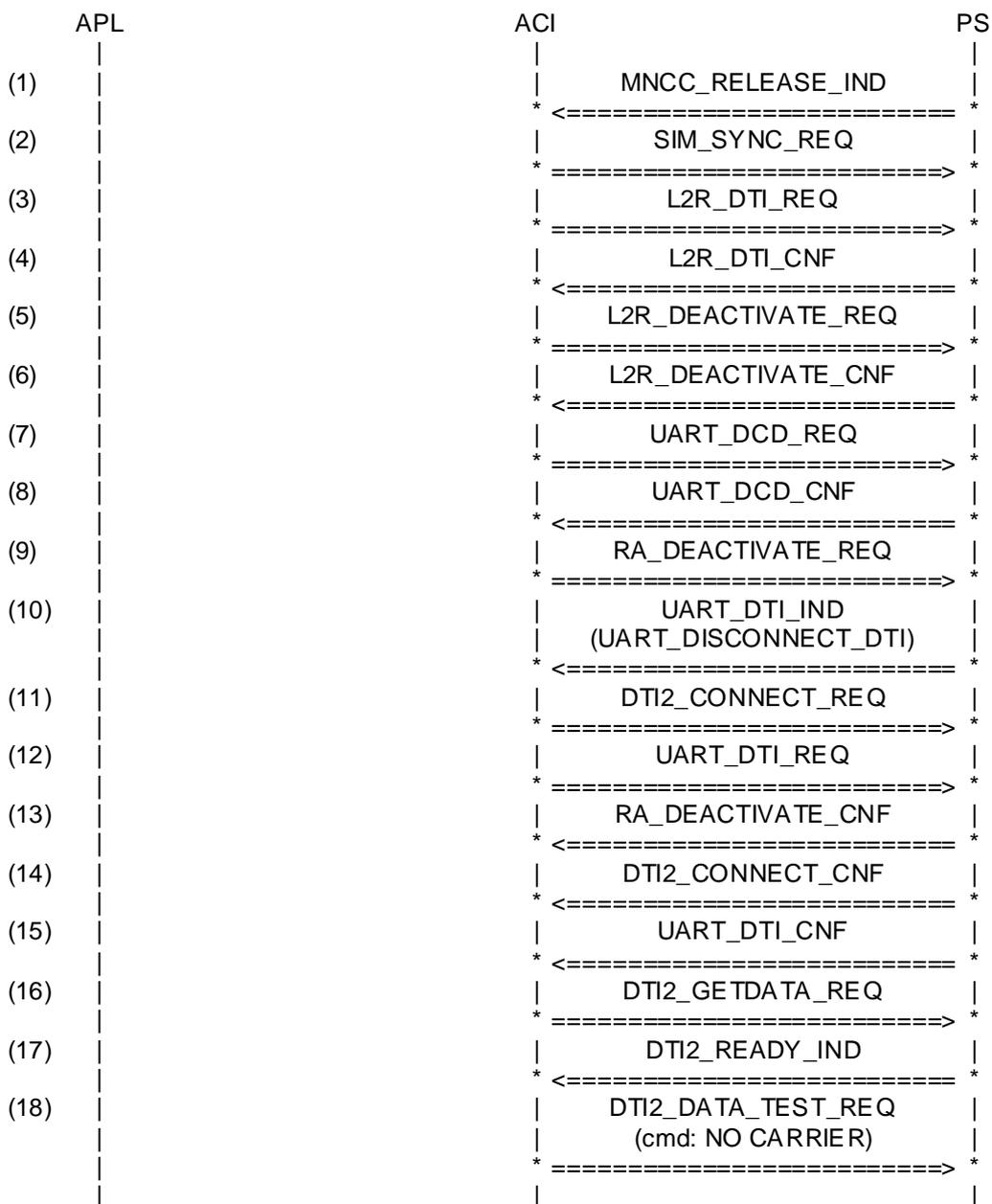
link_id	ACI_DTI_LINK_ID_1
parameters	NOT_USED
sdu	F_RESP_NO_CARRIER

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



**Parametrization:**

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(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

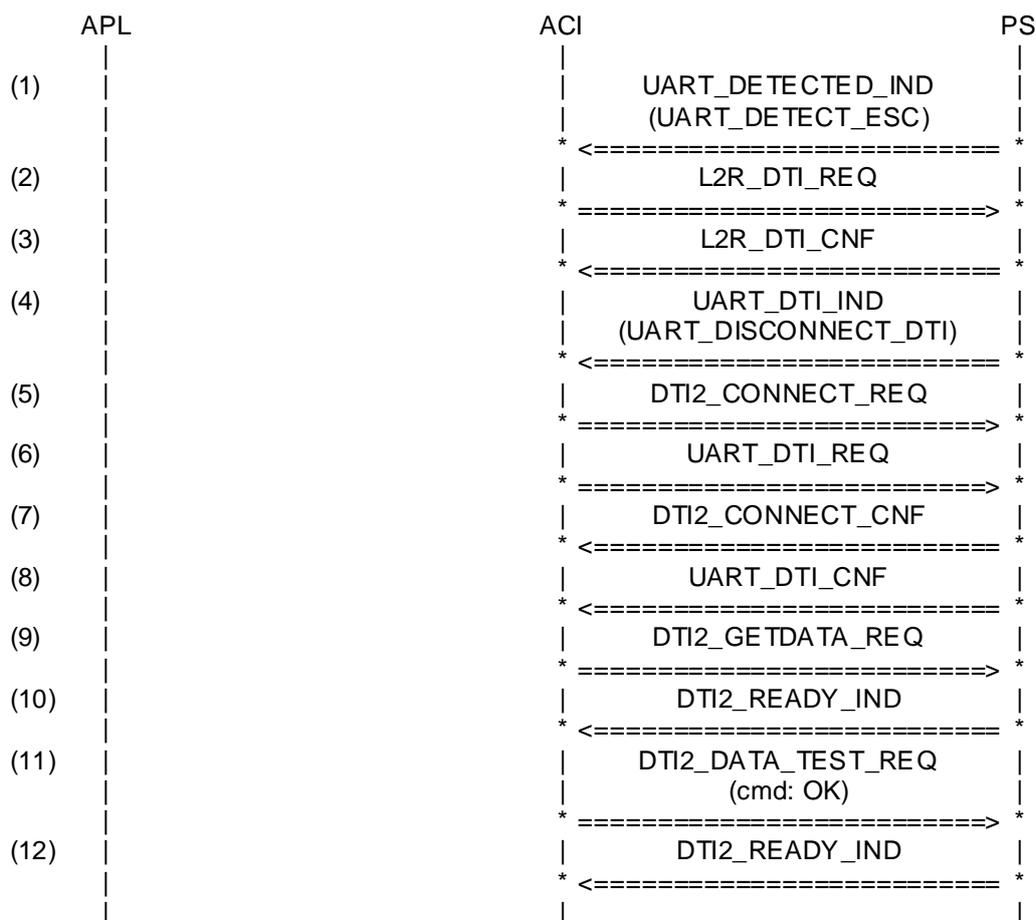
(15) UART_DTI_CNF	dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED	UART_CONNECT_DTI NUM_0
(16) DTI2_GETDATA_REQ	link_id	ACI_DTI_LINK_ID_1
(17) DTI2_READY_IND	link_id	ACI_DTI_LINK_ID_1
(18) DTI2_DATA_TEST_REQ	link_id parameters sdu	ACI_DTI_LINK_ID_1 NOT_USED F_RESP_NO_CARRIER

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

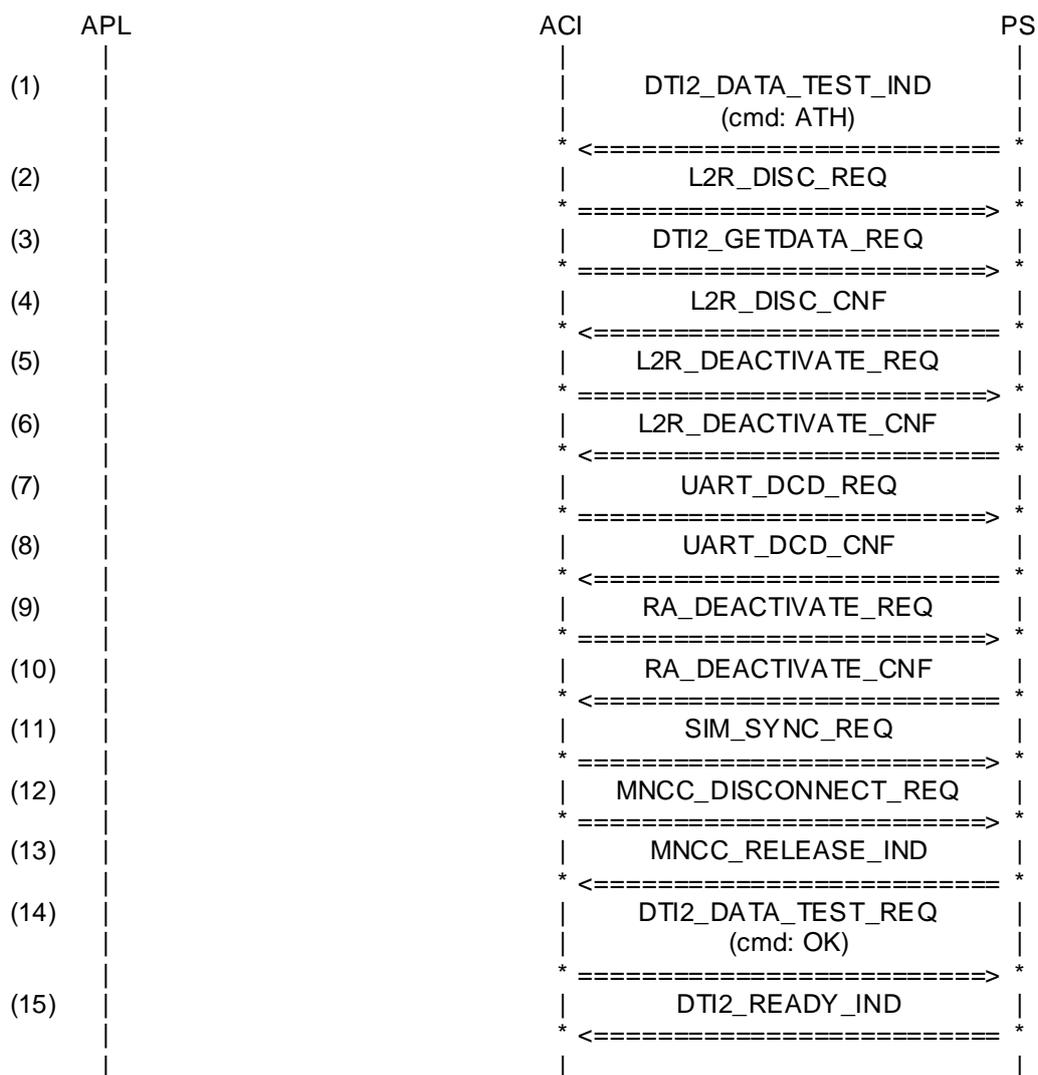
(6) UART_DTI_REQ	dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED direction link_id entity_name	UART_CONNECT_DTI NUM_0   NUM_0 ACI_DTI_LINK_ID_1 NOT_USED
(7) DTI2_CONNECT_CNF	link_id version	ACI_DTI_LINK_ID_1 DTI_VERSION_10
(8) UART_DTI_CNF	dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED	UART_CONNECT_DTI 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: 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

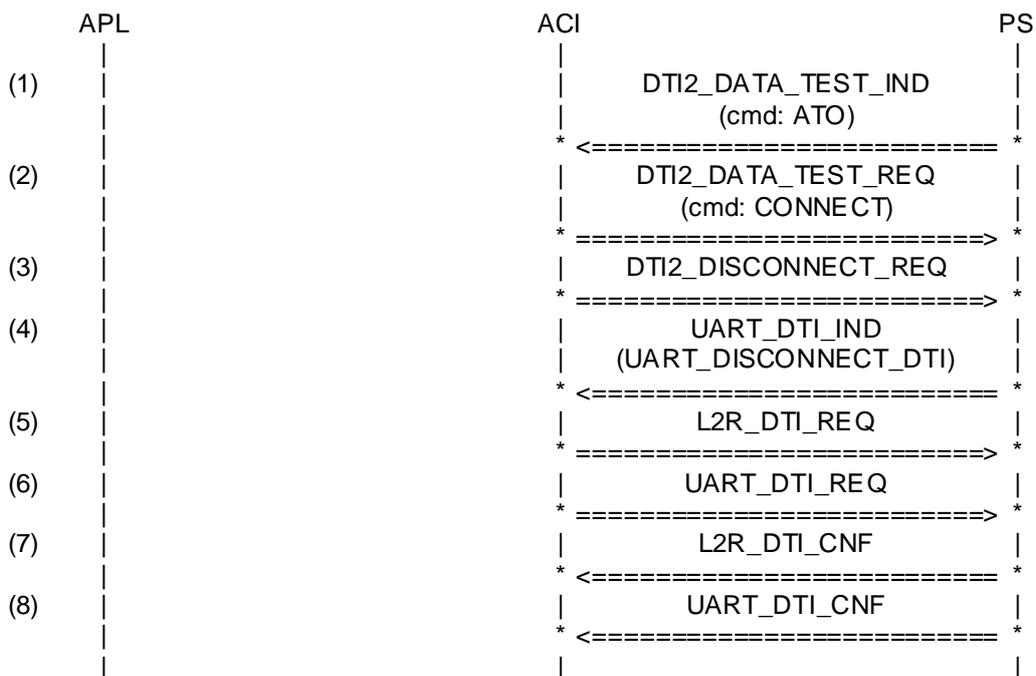
(8) UART_DCD_CNF	device dlci UART_DLCI_NOT_MULTIPLEXED	NUM_0
(9) RA_DEACTIVATE_REQ		
(10) RA_DEACTIVATE_CNF		
(11) SIM_SYNC_REQ	synccs	SYNC_STOP_CALL
(12) MNCC_DISCONNECT_REQ	ti cause MNCC_CAUSE_CALL_CLEAR fac_inf ss_version	NUM_0  NOT_USED NOT_USED
(13) MNCC_RELEASE_IND	ti cause MNCC_CAUSE_CALL_CLEAR	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

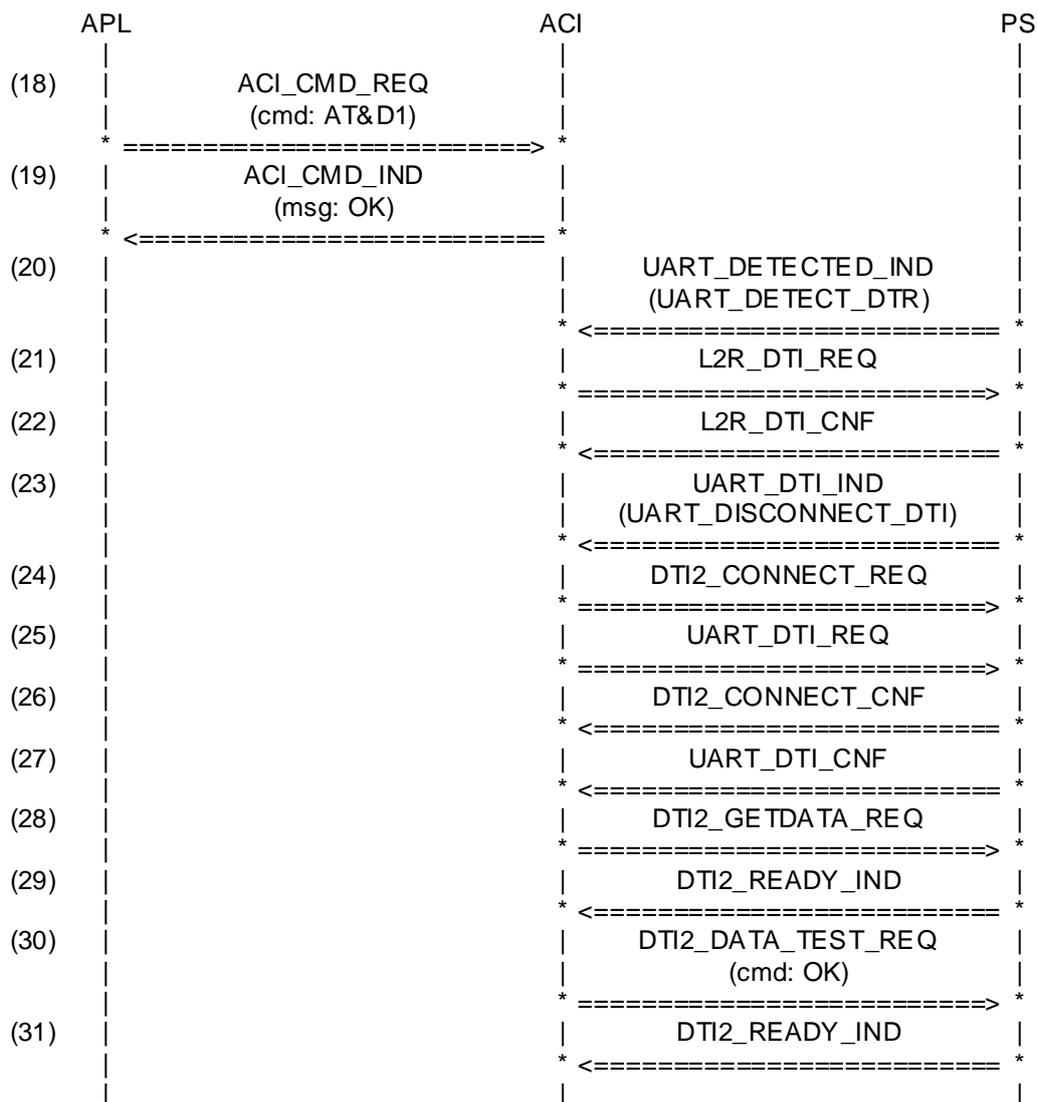
UART\_CONNECT\_DTI  
NUM\_0

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_SRC_EXT
	cmd_len	LC_AND_D
	cmd_seq	C_AND_D1
(5) ACI_CMD_IND	cmd_len	LM_OK
	cmd_seq	M_OK
(6) UART_DETECTED_IND	device	NUM_0
	dldci	
	UART_DLDCI_NOT_MULTIPLEXED	
	cause	UART_DETECT_DTR
(7) L2R_DTI_REQ	dti_conn	L2R_DISCONNECT_DTI
	entity_name	NOT_USED
	link_id	ACI_DTI_LINK_ID_1
	dti_direction	NOT_USED

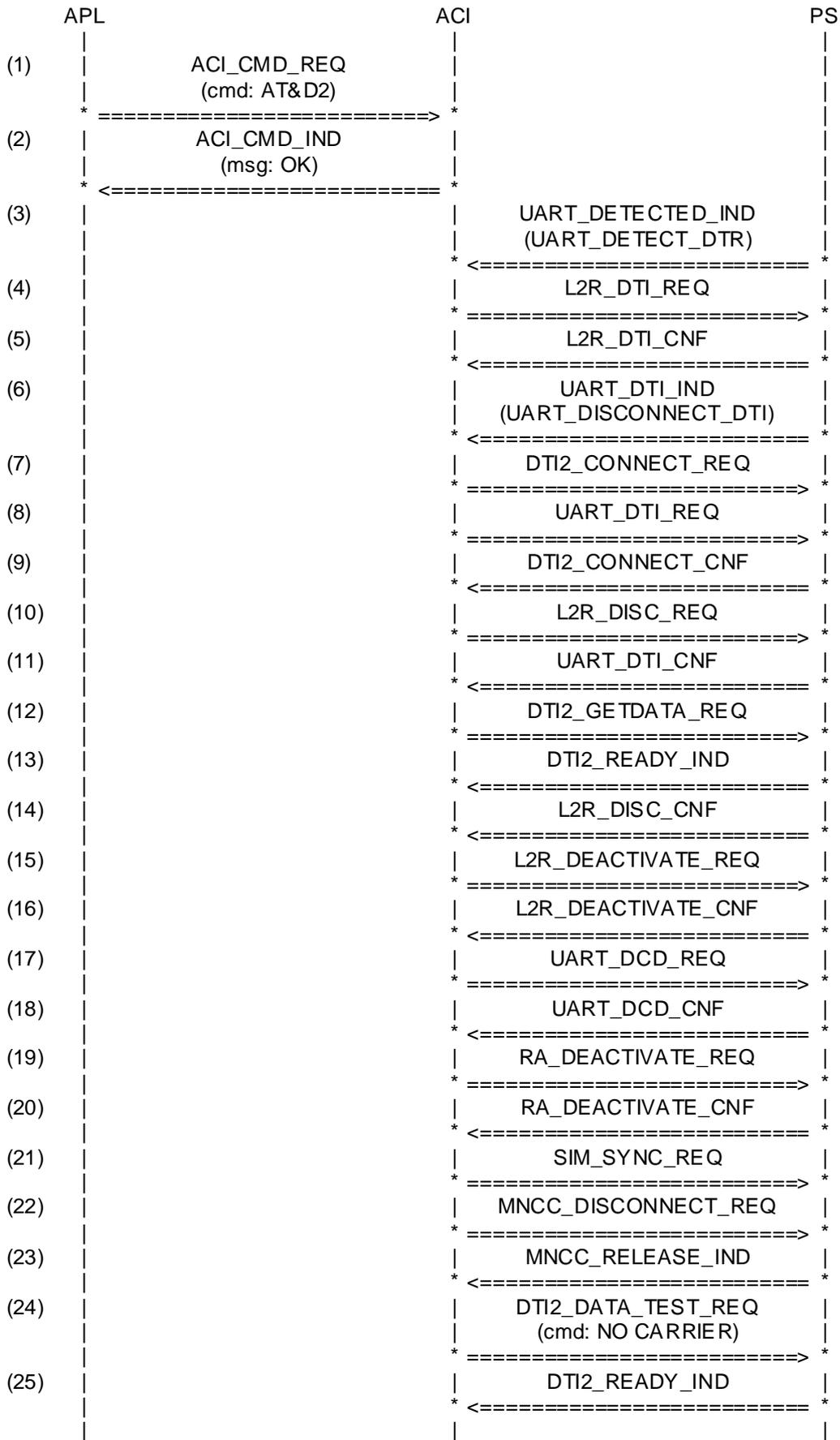
(8) L2R_DTI_CNF	dti_conn link_id	L2R_DISCONNECT_DTI ACI_DTI_LINK_ID_1
(9) UART_DTI_IND	dti_conn UART_DISCONNECT_DTI device dlci UART_DLCI_NOT_MULTIPLEXED	NUM_0
(10) DTI2_CONNECT_REQ	link_id version	ACI_DTI_LINK_ID_1 DTI_VERSION_10
(11) UART_DTI_REQ	dti_conn device dlci UART_DLCI_NOT_MULTIPLEXED direction 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 clear-down of the call (ATH)).

Preamble: ACIDTI052



**Parametrization:**

Primitive	Parameter	Value
(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	
	link_id	ACI_DTI_LINK_ID_1
(8) UART_DTI_REQ	version	DTI_VERSION_10
	dti_conn	UART_CONNECT_DTI
(9) DTI2_CONNECT_CNF	device	NUM_0
	dlci	
	UART_DLCI_NOT_MULTIPLEXED	
	direction	NUM_0
	link_id	ACI_DTI_LINK_ID_1
	entity_name	NOT_USED
	version	DTI_VERSION_10
(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
	version	DTI_VERSION_10

(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:

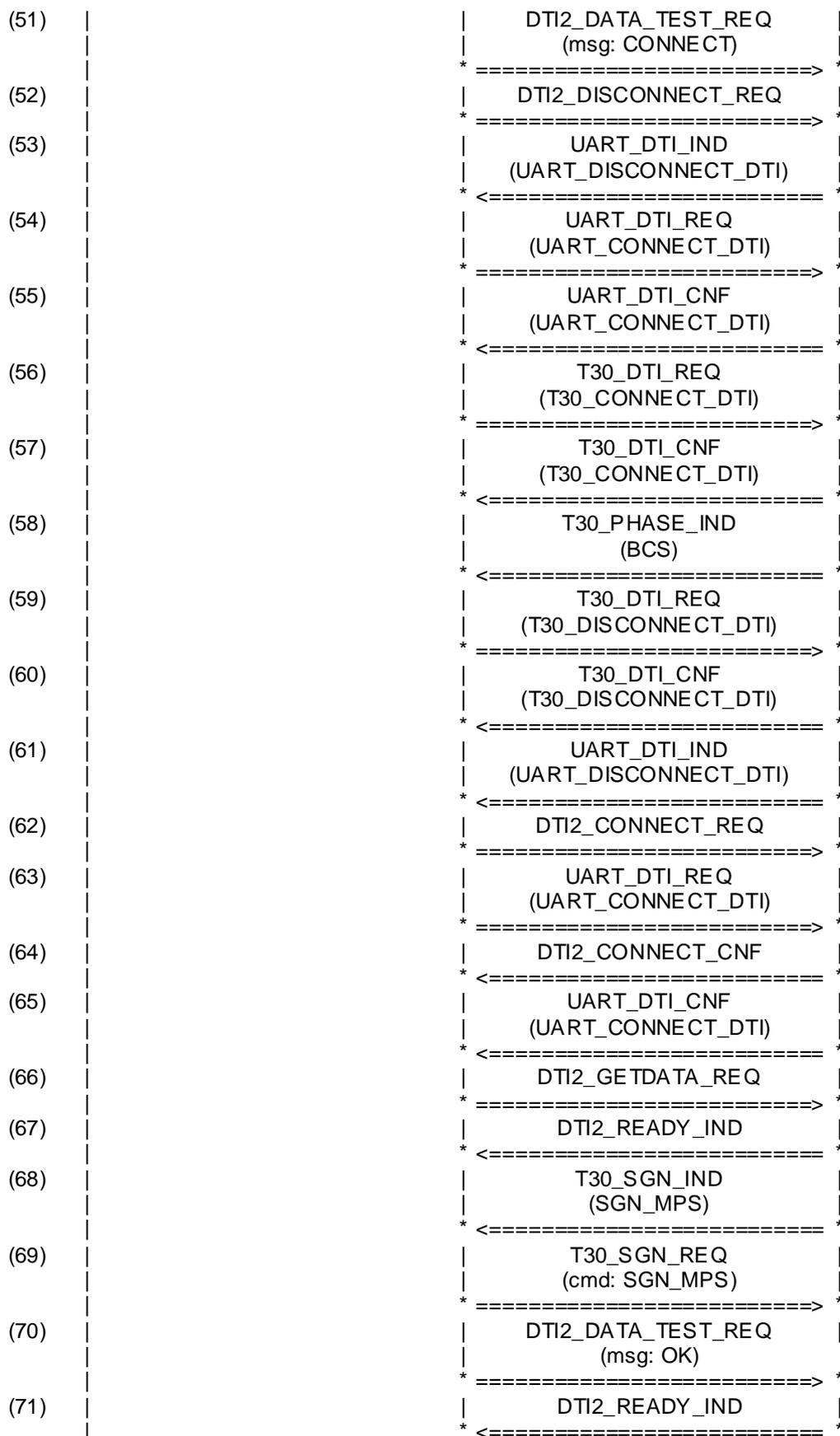
Mobile originated FAX call (transmit 2 pages complete)

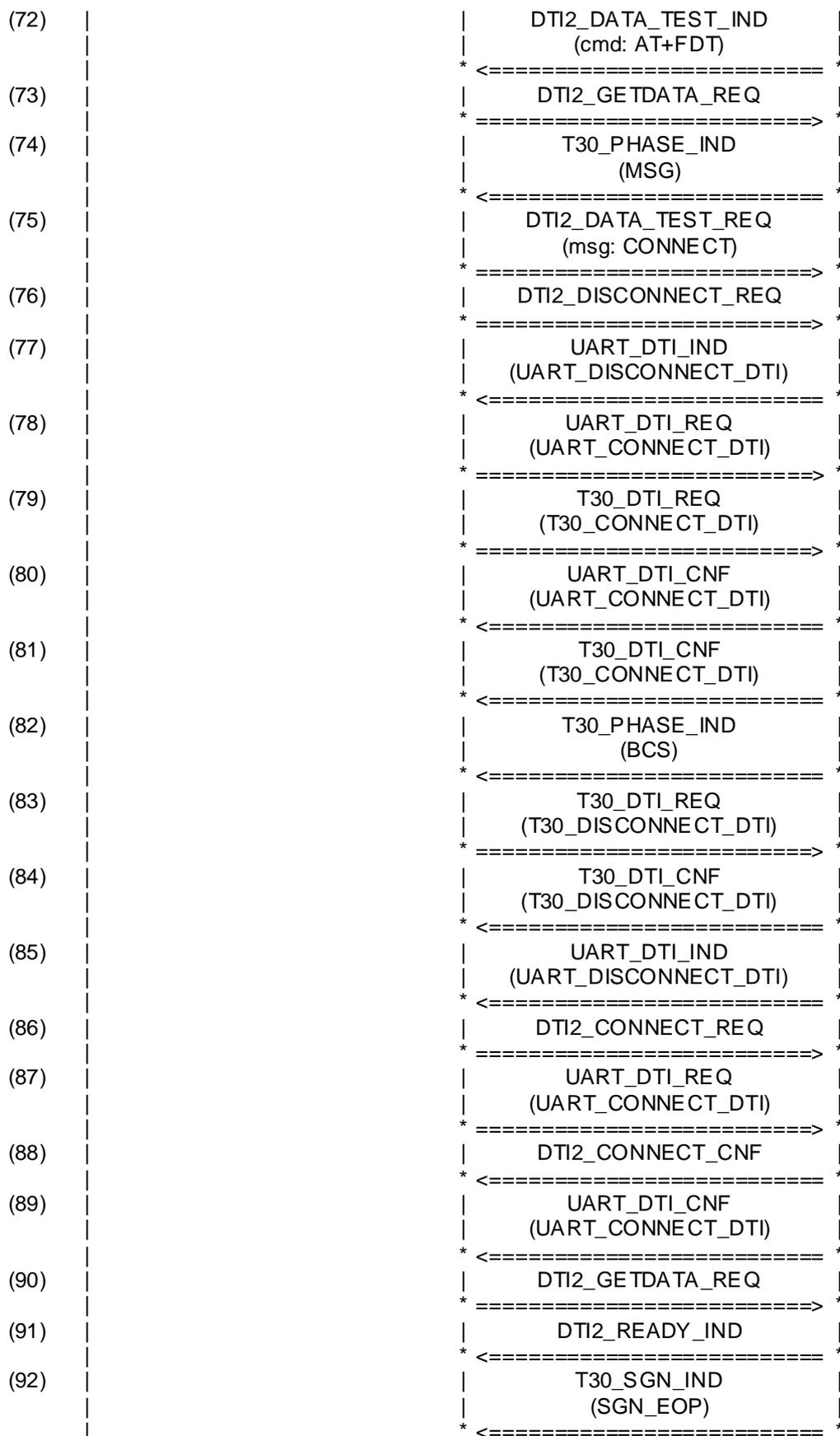
Preamble:

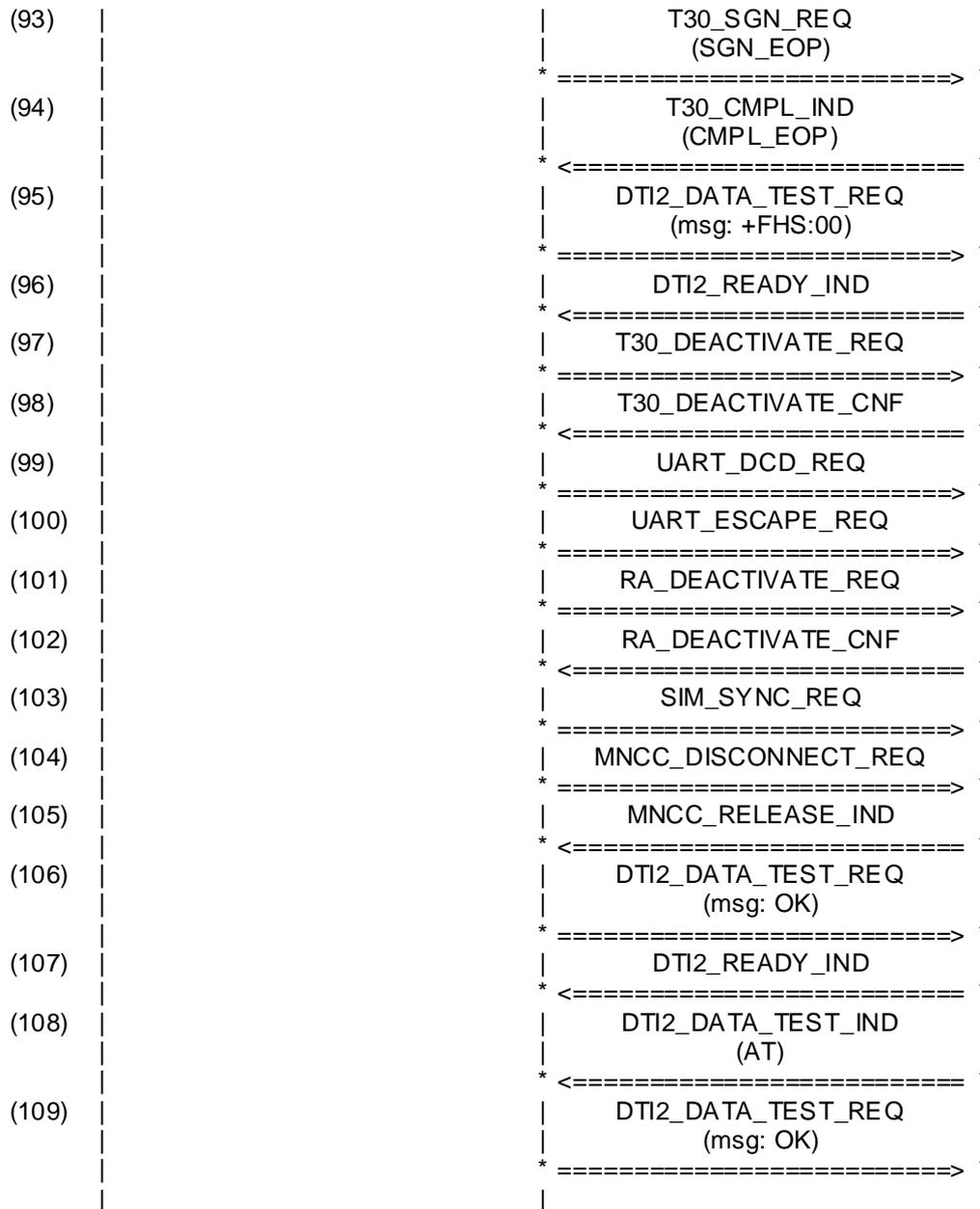
ACIDTI002

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	
		*	=====>	*







**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) 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

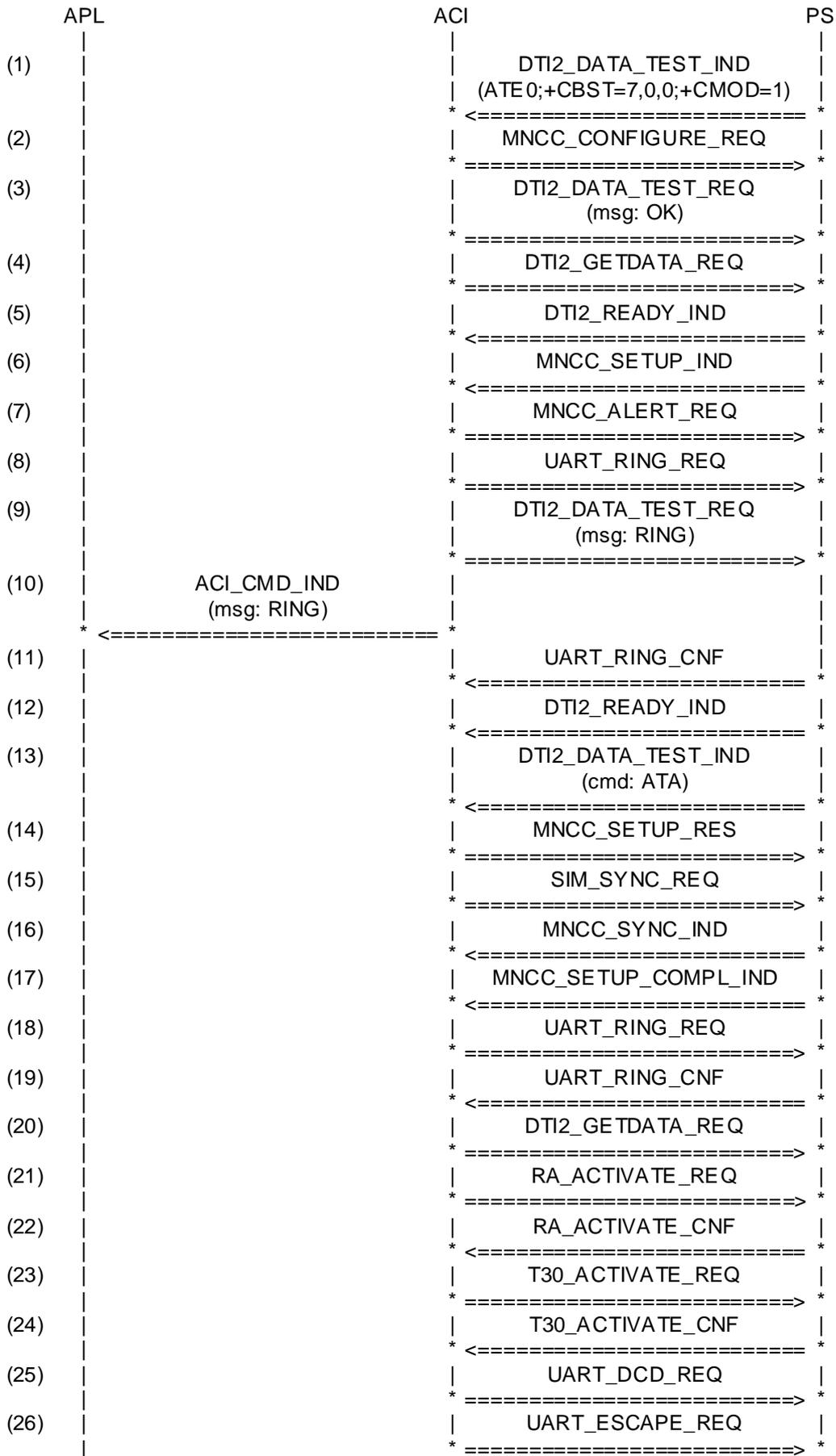
## 4.6.2 ACIDTI072: MT FAX call (receive 2 pages complete)

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	ACI_DTI_LINK_ID_1
	parameters	NOT_USED
	sdu F_AT_PLUS_CMOD_FAX	
(2) MNCC_CONFIGURE_REQ	called_party_sub	NOT_USED
	bcpara	NOT_USED
	sns_mode	NOT_USED
	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) MNCC_SETUP_IND	ti	NUM_8
	ri	RI_CIRCULAR
	bcpara	S_BS_FAX
	bcpara2	S_BS_VOICE
	progress_desc	PROG_NOT_PRES
	sig	
	SIG_RING_BACK_TONE_ON	
	calling_party	S_CLG_PARTY
	calling_party_sub	S_CLG_PARTY_SUB
	called_party	S_CLD_PARTY
	called_party_sub	S_CLD_PARTY_SUB
	redirecting_party	NOT_USED
	redirecting_party_sub	NOT_USED
(7) MNCC_ALERT_REQ	ti	NUM_8
(8) UART_RING_REQ	device	NUM_0
	dlci	
	UART_DLCI_NOT_MULTIPLEXED line_state	UART_LINE_ON
(9) DTI2_DATA_TEST_REQ	link_id	ACI_DTI_LINK_ID_1
	parameters	NOT_USED
	sdu	F_RING
(10) ACI_CMD_IND	cmd_len	LM_RING
	cmd_seq	M_RING
(11) UART_RING_CNF	device	NUM_0
	dlci	
	UART_DLCI_NOT_MULTIPLEXED	
(12) DTI2_READY_IND	link_id	ACI_DTI_LINK_ID_1
(13) DTI2_DATA_TEST_IND	link_id	ACI_DTI_LINK_ID_1
	parameters	NOT_USED
	sdu	F_C_ATA
(14) MNCC_SETUP_RES	ti	NUM_8
(15) SIM_SYNC_REQ	synccs	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	ACI_DTI_LINK_ID_1 DTI_CAUSE_NORMAL_CLOSE
(41)	UART_DTI_IND	dti_conn UART_DISCONNECT_DTI device dlci	NUM_0
		UART_DLCI_NOT_MULTIPLEXED	
(42)	UART_DTI_REQ	dti_conn device dlci	UART_CONNECT_DTI NUM_0
		UART_DLCI_NOT_MULTIPLEXED direction	FALSE
		link_id entity_name	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_CONNECT_DTI NUM_0
		UART_DLCI_NOT_MULTIPLEXED	
(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	NUM_0
		UART_DLCI_NOT_MULTIPLEXED	

(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 DTI_CAUSE_NORMAL_CLOSE	ACI_DTI_LINK_ID_1
(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	synccs	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

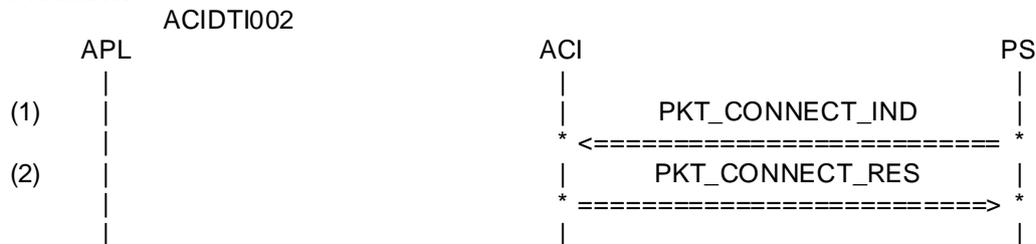
### 4.7.1 ACIDTI080: Entity PKTIO registers in ACI, successfull

Description:

Variants:

<A>...<B>

Preamble:



Parametrization:

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

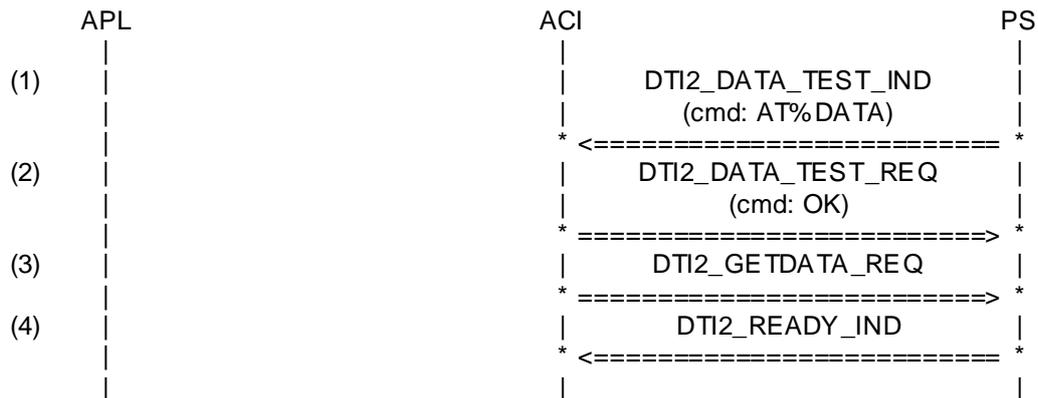
History: 11.11.02      RM      Initial

### 4.7.2 ACIDTI081:Set Data Flow for packet data

Description:

Preamble:

ACIDTI080A



**Parametrization:**

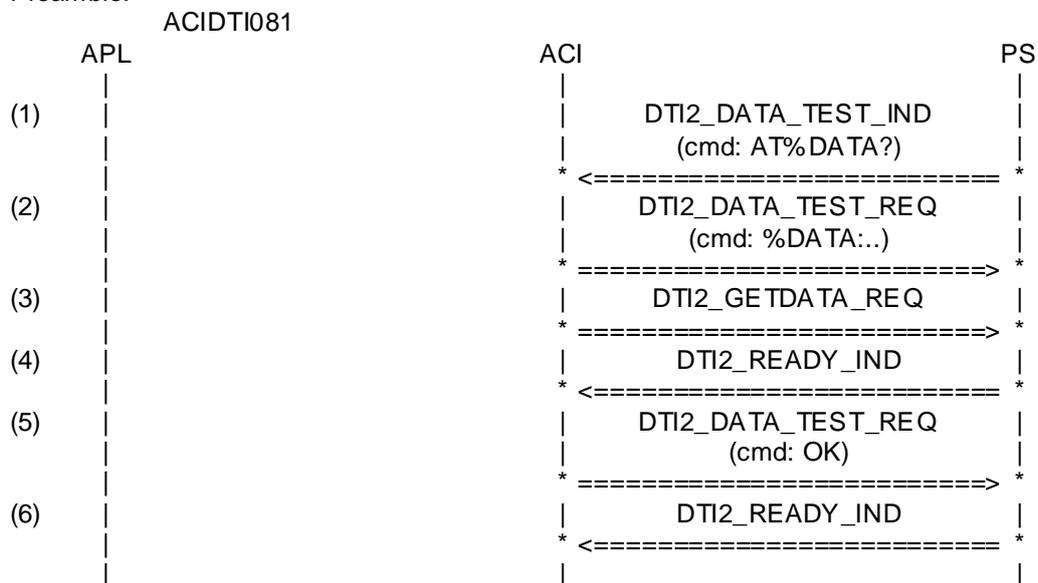
Primitive	Parameter	Value
(1) DTI2_DATA_TEST_IND	link_id parameters sdu	ACI_DTI_LINK_ID_1 NOT_USED F_AT_PERC_DATA
(2) DTI2_DATA_TEST_REQ	link_id parameters sdu	ACI_DTI_LINK_ID_1 NOT_USED F_RESP_OK
(3) DTI2_GETDATA_REQ	link_id	ACI_DTI_LINK_ID_1
(4) DTI2_READY_IND	link_id	ACI_DTI_LINK_ID_1

History: 20.01.03 RM Initial

### 4.7.3 ACIDTI082: Query Data Flow for packet data

Description:

Preamble:



Parametrization:

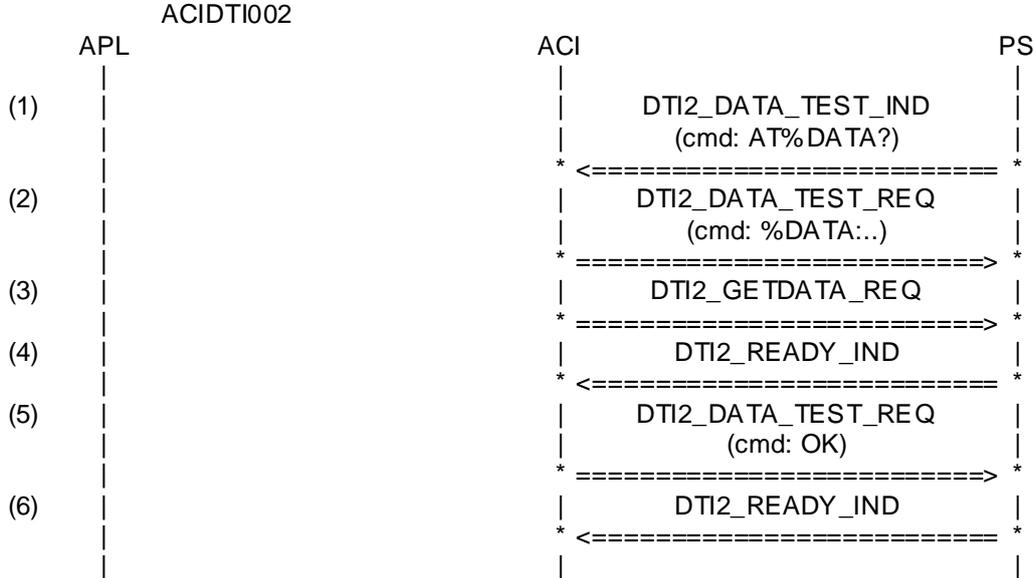
Primitive	Parameter	Value
(1) DTI2_DATA_TEST_IND	link_id parameters sdu	ACI_DTI_LINK_ID_1 NOT_USED F_AT_PERC_DATA_Q
(2) DTI2_DATA_TEST_REQ	link_id parameters sdu	ACI_DTI_LINK_ID_1 NOT_USED F_RESP_PERC_DATA
(3) DTI2_GETDATA_REQ	link_id	ACI_DTI_LINK_ID_1
(4) DTI2_READY_IND	link_id	ACI_DTI_LINK_ID_1
(5) 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:**

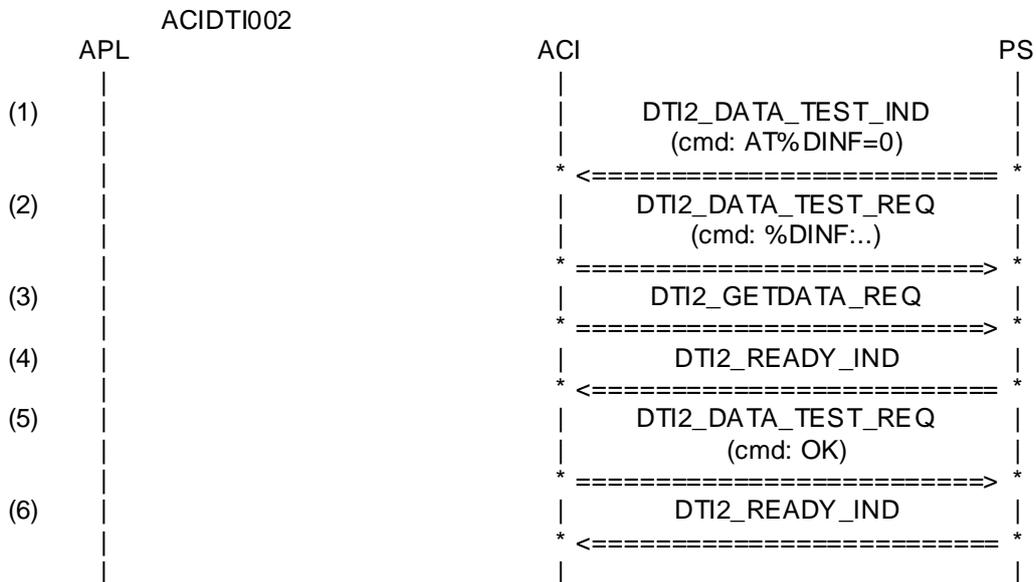
Primitive	Parameter	Value
(1) DTI2_DATA_TEST_IND	link_id parameters sdu	ACI_DTI_LINK_ID_1 NOT_USED F_AT_PERC_DATA_Q
(2) DTI2_DATA_TEST_REQ	link_id parameters sdu	ACI_DTI_LINK_ID_1 NOT_USED F_RESP_PERC_DATA_NO_RED
(3) DTI2_GETDATA_REQ	link_id	ACI_DTI_LINK_ID_1
(4) DTI2_READY_IND	link_id	ACI_DTI_LINK_ID_1
(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/>>