

# GSM Protocol Stack

# Test Specification

# CC

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## 0.1 Document History

Document Id.	Date	Author	Remarks
6147.400.97.100	25-Apr-97	LE et al	Initial
6147.400.97.101	01-Aug-01	JHU, SBK	Converted to TAP2, used partially partial ARRAYs
6147.400.97.102	22-Aug-01	SBK	Modified due to consideration of +CBST in MTCs
6147.400.97.103	24-Aug-01	SBK	Adapt to outband flow control for MOCs; improved due to some tdscheck results
6147.400.97.104	14-Dec-01	SBK	Finalized conversion to TAP2: use MUTE
6147.400.97.105	18-Feb-02	OT	New Testcases for AMR implementation.
6147.400.97.106	15-Mar-02	HM	Changes due to LND implementaion.
6147.400.97.107	18-Mar-02	HM	Changed bearer caps in MNCC_CONFIGURE_REQ to

			bearer caps parameters.
6147.400.97.108	19-Mar-02	HM	Reworked CC422, CC066, call confirmed now in
			WIN32 as in target without CC capabilities.
6147.400.97.109	10-Apr-02	HM	Changed document for CD.
	17-July-02	JK	MOC: for transparent mode no octet 6f in BC sent ,
			MTC: if UIMI or WAIUR in BC rcvd not present,then
			no BC octets 6d, 6e, 6f in confirmation massege.
			(CC-ENH-2378)
6147.400.97.110	12-Jul-02	HM	CC_CAUSE_USER_BUSY if no slot left.
6147.400.97.111	15-Jul-02	HM	ESTCS_EMERGE for emergency call.
6147.400.97.112	30-Jul-02	SBK	Adapted at cause concept realization
6147.400.97.113	27-Sep-02	SBK	Added CC267 (issue 4992).
	23-Sep-02	MSB	Merge from gprs_1.3.3 to g23m.
	23-Sep-02	SBK	Corrected merge, remove obsolete CC598
6147.400.97.114	07-Nov-02	SBK	Finalized Cause Concept, rebase with g23m
6147.400.97.115	02-Dec-2002	FK	Added CTM support to existing test cases
6147.400.97.116	11-Dec-02	SBK/HM	CC230 revised, CC233 new after PS change

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- [48] Service Access Point DL  
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6147.402.97.100; Condat AG
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6147.403.97.100; Condat AG
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6147.404.97.100; Condat AG
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6147.505.97.100; Condat AG
- [72] Message Specification CC  
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- [73] Message Specification SS  
6147.601.97.100; Condat AG
- [74] Message Specification SMS  
6147.602.97.100; Condat AG
- [75] Message Specification MM  
6147.603.97.100; Condat AG
- [76] Message Specification RR  
6147.604.97.100; Condat AG
- [77] Message Specification DL  
6147.605.97.100; Condat AG
- [78] Technical Documentation CC  
6147.700.97.100; Condat AG
- [79] Technical Documentation SS  
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## 0.2 Abbreviations

- AGCH Access Grant Channel
- BCCH Broadcast Control Channel
- BS Base Station
- BSIC Base Station Identification Code
- CBCH Cell Broadcast Channel
- CBQ Cell Bar Qualify

CC	Call Control
CCCH	Common Control Channel
CCD	Condat Coder Decoder
CKSN	Ciphering Key Sequence Number
C/R	Command / Response
C1	Path Loss Criterion
C2	Reselection Criterion
DCCH	Dedicated Control Channel
DISC	Disconnect Frame
DL	Data Link Layer
DM	Disconnected Mode Frame
EA	Extension Bit Address Field
EL	Extension Bit Length Field
EMMI	Electrical Man Machine Interface
F	Final Bit
FACCH	Fast Associated Control Channel
FHO	Forced Handover
GP	Guard Period
GSM	Global System for Mobile Communication
HPLMN	Home Public Land Mobile Network
I	Information Frame
IMEI	International Mobile Equipment Identity
IMSI	International Mobile Subscriber Identity
Kc	Authentication Key
L	Length Indicator
LAI	Location Area Information
LPD	Link Protocol Discriminator
M	More Data Bit
MCC	Mobile Country Code
MM	Mobility Management
MMI	Man Machine Interface
MNC	Mobile Network Code
MS	Mobile Station
NCC	National Colour Code
NECI	New Establishment Causes included
N(R)	Receive Number
N(S)	Send Number
OTD	Observed Time Difference
P	Poll Bit
PCH	Paging Channel
PDU	Protocol Description Unit
P/F	Poll / Final Bit
PL	Physical Layer
PLMN	Public Land Mobile Network

RACH	Random Access Channel
REJ	Reject Frame
RNR	Receive Not Ready Frame
RR	Radio Resource Management
RR	Receive Ready Frame
RTD	Real Time Difference
SABM	Set Asynchronous Balanced Mode
SACCH	Slow Associated Control Channel
SAP	Service Access Point
SAPI	Service Access Point Identifier
SDCCH	Slow Dedicated Control Channel
SIM	Subscriber Identity Module
SMS	Short Message Service
SMSCB	Short Message Service Cell Broadcast
SS	Supplementary Services
TCH	Traffic Channel
TCH/F	Traffic Channel Full Rate
TCH/H	Traffic Channel Half Rate
TDMA	Time Division Multiple Access
TMSI	Temporary Mobile Subscriber Identity
UA	Unnumbered Acknowledgement Frame
UI	Unnumbered Information Frame
VPLMN	Visiting Public Land Mobile Network
V(A)	Acknowledgement State Variable
V(R)	Receive State Variable
V(S)	Send State Variable

### 0.3 Terms

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

## 1 Overview

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

The base of the Protocol Stack rests on the physical layer.

The Data Link Layer (DL) is used to handle an acknowledged connection between mobile and base station. The LAPDm protocol is used.

Radio Resource (RR) manages the resources of the air-interface. That means configuration of physical layer, cell selection and cell reselection, data transfer, RR-Connection handling.

Mobility Management (MM) handles registration aspects for the mobile station. It detects changes of location areas and updates a mobile station in the new location area.

Call Control (CC) provides the call functionality. This includes call establishment, call maintenance procedures like Hold, Retrieve or Modify, and call disconnection.

Supplementary Services (SS) handles all call independent supplementary services like call forwarding or call barring.

Short Message Services (SMS) is used for sending and receiving point-to-point short messages. Additionally the reception of cell broadcast short messages is included.

The man machine interface (MMI) is the interface to the user. Normally it is connected with a keypad as input device and a display as output device.

Between the several entities data interfaces are defined. These data interfaces are called Service Access Points (SAPs), indicating that an upper layer uses the services of a lower layer.

The GSM specification do not set out any implementation of the Protocol Stack. The following diagrams show the implementation described in all these documents for the mobile station. All entities except the Man Machine Interface and Physical Layer are implemented as part of the Protocol Stack.

**Error! Objects cannot be created from editing field codes.**

Figure 1: Mobile-station protocol architecture

This document describes the tests for Call Control.

## 2 Parameters

```
/* DECLARATIONS; structs */  
  
DECLARATION ( BC_SPEECH_FR )  
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DECLARATION ( BC\_PARA\_BS23\_T )  
DECLARATION ( BC\_PARA\_BS23\_NT )  
DECLARATION ( BC\_PARA\_BS20\_T\_14400 )  
DECLARATION ( BC\_PARA\_BS20\_NT\_14400\_1 )  
DECLARATION ( BC\_PARA\_BS20\_NT\_14400\_4 )  
DECLARATION ( BC\_PARA\_FAX\_T\_2400 )  
DECLARATION ( BC\_PARA\_FAX\_T\_4800 )

```

DECLARATION ( BC_PARA_FAX_T_9600 )
DECLARATION ( FACILITY_A )
DECLARATION ( FACILITY_A_FAC )
DECLARATION ( FACILITY_NONE )
DECLARATION ( USER_A )
DECLARATION ( USER_A_USER )
DECLARATION ( CH_DATA_9_6 )
DECLARATION ( CH_DATA_4_8 )
DECLARATION ( BC_CONF_NO_SERVICE )
DECLARATION ( BC_CONF_SPEECH_FR_HR_EFR )
DECLARATION ( BC_CONF_BS21_T_300 )
DECLARATION ( BC_PARA_UNSUPP )
DECLARATION ( BC_CONF_PACKET_UNSUPP )

```

```

DECLARATION ( CH_SPEECH_FULL )
DECLARATION ( CH_SIG_ONLY )
DECLARATION ( BC_PARA_SPEECH )
DECLARATION ( BC_PARA_SPEECH_LINE_2 )
DECLARATION ( BC_PARA_NO_SERVICE )
DECLARATION ( BC_PARA_SPEECH_CTM )
DECLARATION ( BC_PARA_SPEECH_LINE_2_CTM )

```

```

/* DECLARATIONS; arrays */

```

```

DECLARATION ( NUM_654321 )
DECLARATION ( NUM_7654321 )
DECLARATION ( NUM_UNUSED )
DECLARATION ( FACILITY_A_6 )
DECLARATION ( SETUP_CONT_SPEECH_FR_HR_EFR_15 )
DECLARATION ( SETUP_CONT_SPEECH_FR_13 )
DECLARATION ( USER_A_4 )
DECLARATION ( BC_CONF_SPEECH_FR_HR_EFR_ARRAY )
DECLARATION ( BC_CONF_BS21_T_300_ARRAY )
DECLARATION ( BC_CONF_PACKET_UNSUPP_ARRAY )
DECLARATION ( SS_VERS_3_ARRAY )

```

```

/* DEFINES */

```

```

BYTE      ZERO_VALUE          0x00
BYTE      L_FAC_48            48
BYTE      PD_5                0x05
BYTE      C_INFO_4            0x04
BYTE      RATE_1              0x01
BYTE      RATE_2              0x02
BYTE      RATE_3              0x03
BYTE      RATE_4              0x04
BYTE      RATE_5              0x05
BYTE      RATE_7              0x07

```

```

/*

```

\* note that RATE\_8 is used instead of UR\_14\_4\_KBIT which is used at the MNCC SAP; note

also

\* that UR\_14\_4\_KBIT / RATE\_8 cannot be used over the air interface as there it is (currently) a

\* reserved value

\*/

BYTE	RATE_8	0x08
BYTE	BEARER_SERV_1	0x01
BYTE	BEARER_SERV_4	0x04
BYTE	BEARER_SERV_15	0x0F
BYTE	CONN_ELEM_1	0x01
BYTE	CONN_ELEM_B_T	0x02
BYTE	CONN_ELEM_B_NT	0x03
BYTE	STOP_BITS_1	0x01
BYTE	DATA_BITS_1	0x01
BYTE	FLOW_CONTROL_8	0x08
BYTE	FLOW_CONTROL_12	0x0C
BYTE	FLOW_CONTROL_255	0xFF
BYTE	MODEM_TYPE_1	0x01
BYTE	MODEM_TYPE_2	0x02
BYTE	MODEM_TYPE_3	0x03
BYTE	MODEM_TYPE_4	0x04
BYTE	MODEM_TYPE_5	0x05
BYTE	MODEM_TYPE_6	0x06
BYTE	PARITY_2	0x02
BYTE	PARITY_3	0x03
BYTE	PARITY_4	0x04
/* ti (Transaction identifier) */		
BYTE	TI_MO_5	0x05
BYTE	TI_MO_5_RESP	0x0D
BYTE	TI_MO_6	0x06
/* ms originated transaction */		
BYTE	TI_MO_7	0x07
BYTE	TI_MO_7_RESP	0x0F
/* reserved */		
BYTE	TI_MT_7	0x07
BYTE	TI_MT_7_RESP	0x0F
/* reserved */		
BYTE	TI_MT_1	0x01
BYTE	TI_MT_1_RESP	0x09
BYTE	TI_MT_2	0x02
BYTE	TI_MT_2_RESP	0x0A
BYTE	TI_MT_3	0x03
BYTE	TI_MT_3_RESP	0x0B
BYTE	TI_MT_4	0x04
BYTE	TI_MT_4_RESP	0x0C
BYTE	TI_MT_5	0x05
BYTE	TI_MT_5_RESP	0x0D

```

/* Request ID for MNCC_BEAEER_CAP primitives */
BYTE      REQ_ID_5                0x05

/* length for bearer capabilities */
BYTE      BC_LEN_0                0x00
BYTE      BC_LEN_4                0x04
BYTE      BC_LEN_7                0x07
BYTE      BC_LEN_8                0x08

/* cause values originated by higher layers / ACI; ACI uses CC as originating entity */
SHORT     ACI_CAUSE_CALL_REJECT   MNCC_CAUSE_CALL_REJECT
SHORT     ACI_CAUSE_CALL_CLEAR   MNCC_CAUSE_CALL_CLEAR

/* cause values originated by lower layers / RR */
SHORT     RRCS_NORM               0x0300
SHORT     RRCS_ABORT_CEL_SEL_FAIL 0xC310
SHORT     RRCS_ABORT_RAD_LNK_FAIL 0xC311
SHORT     RRCS_DL_EST_FAIL        0xC323

/* Engineering Mode */
BYTE      EM_ENTITY               0x05
LONG      Bitm_L_1                0x0002
LONG      Bitm_H_1                0x0000
LONG      Bitm_L_2                0x0200
LONG      Bitm_H_2                0x0000

/* ARRAYS */

/* SBK2001-08-01: need partial arrays for called / calling party BCD number / subaddress as
e.g. T_calling_name is defined as having a component num with fixed size in the MNCC SAP /
.h file */

BEGINARRAY_PART (NUM_654321, 6) 0x06, 0x05, 0x04, 0x03, 0x02, 0x01 ENDARRAY
BEGINARRAY_PART (NUM_7654321, 7) 0x07, 0x06, 0x05, 0x04, 0x03, 0x02, 0x01 ENDARRAY
BEGINARRAY_PART (NUM_UNUSED, 1) 0xFF ENDARRAY

BEGINARRAY_PART (FACILITY_A_6, 6) 0x00, 0x01, 0x02, 0x03, 0x04, 0x05 ENDARRAY
BEGINARRAY_PART (SS_VERS_3_ARRAY, 1)
    0x01 /* prefer to have the absolute value as used over the air here instead of
SS_VERSION_3 */
ENDARRAY
BEGINARRAY (SETUP_CONT_SPEECH_FR_HR_EFR_15, 15)
    0x04, 0x04, 0x60, 0x02, 0x00, 0x81, 0x5E, 0x04, 0xA8, 0x56, 0x34, 0x12, 0x15,
0x01, 0x03
ENDARRAY
BEGINARRAY (SETUP_CONT_SPEECH_FR_13, 13)
    0x04, 0x02, 0x20, 0x80, 0x5E, 0x04, 0xA8, 0x56, 0x34, 0x12, 0x15, 0x01, 0x03
ENDARRAY
BEGINARRAY_PART (USER_A_4, 4) 0x02, 0x03, 0x04, 0x05 ENDARRAY
BEGINARRAY_PART (BC_CONF_SPEECH_FR_HR_EFR_ARRAY, 4)

```

```
0x60, /* octet 3: dual rate, HR preferred, GSM, circuit, speech ITC */
0x02, /* octet 3a: EFR */
0x00, /* octet 3b: FR */
0x81 /* octet 3c: HR */
```

ENDARRAY

```
BEGINARRAY_PART (BC_CONF_BS21_T_300_ARRAY, 7) 0xA2, 0xB8, 0x81, 0x21, 0x51, 0x43,
0x81 ENDARRAY
```

```
BEGINARRAY_PART (BC_CONF_PACKET_UNSUPP_ARRAY, 8) 0xA1, 0x88, 0x96, 0x20, 0x13,
0x63, 0xA0, 0xC6 ENDARRAY
```

```
/* PSTRUCTS */

/* BC_PARA_BS21_NT_300_1 */
BEGIN_PSTRUCT ("bcpara2", BC_PARA_BS21_NT_300_1)
SET_COMP ("rate", UR_0_3_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_7_BIT)
SET_COMP ("parity", PARITY_ODD)
SET_COMP ("flow_control", INBAND_FLOW_CONTROL)
SET_COMP ("modem_type", MT_V21)
ENDSTRUCT

/* BC_PARA_BS21_NT_300_1_UDI */
BEGIN_PSTRUCT ("bcpara2", BC_PARA_BS21_NT_300_1_UDI)
SET_COMP ("rate", UR_0_3_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_7_BIT)
SET_COMP ("parity", PARITY_ODD)
SET_COMP ("flow_control", INBAND_FLOW_CONTROL)
SET_COMP ("modem_type", MT_NONE)
ENDSTRUCT

/* BC_PARA_BS21_NT_300_2 */
BEGIN_PSTRUCT ("bcpara", BC_PARA_BS21_NT_300_2)
SET_COMP ("rate", UR_0_3_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_7_BIT)
SET_COMP ("parity", PARITY_EVEN)
SET_COMP ("flow_control", NO_FLOW_CONTROL)
SET_COMP ("modem_type", MT_V21)
ENDSTRUCT

/* BC_PARA_BS21_NT_300_3 */
BEGIN_PSTRUCT ("bcpara", BC_PARA_BS21_NT_300_3)
SET_COMP ("rate", UR_0_3_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_7_BIT)
SET_COMP ("parity", PARITY_FORCED_TO_0)
SET_COMP ("flow_control", OUTBAND_FLOW_CONTROL)
```

```
SET_COMP ("modem_type", MT_V21)
ENDSTRUCT

/* BC_PARA_BS21_NT_300_4 */

BEGIN_PSTRUCT ("bcpara", BC_PARA_BS21_NT_300_4)
SET_COMP ("rate", UR_0_3_KBIT)
SET_COMP ("bearer_serv", BEARER_SERV_ASYNC)
SET_COMP ("conn_elem", CONN_ELEM_NON_TRANS)
SET_COMP ("stop_bits", STOP_2_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_V21)
ENDSTRUCT

/* BC_PARA_BS21_NT_300_4_UDI */

BEGIN_PSTRUCT ("bcpara", BC_PARA_BS21_NT_300_4_UDI)
SET_COMP ("rate", UR_0_3_KBIT)
SET_COMP ("bearer_serv", BEARER_SERV_ASYNC)
SET_COMP ("conn_elem", CONN_ELEM_NON_TRANS)
SET_COMP ("stop_bits", STOP_2_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

/* BC_PARA_BS21_NT_300_5 */

BEGIN_PSTRUCT ("bcpara", BC_PARA_BS21_NT_300_5)
SET_COMP ("rate", UR_0_3_KBIT)
SET_COMP ("bearer_serv", BEARER_SERV_ASYNC)
SET_COMP ("conn_elem", CONN_ELEM_NON_TRANS)
SET_COMP ("stop_bits", STOP_2_BIT)
SET_COMP ("data_bits", DATA_8_BIT)
SET_COMP ("parity", PARITY_NONE)
SET_COMP ("flow_control", OUTBAND_FLOW_CONTROL)
SET_COMP ("modem_type", MT_V21)
ENDSTRUCT

/* BC_PARA_BS21_NT_300_5_UDI */

BEGIN_PSTRUCT ("bcpara", BC_PARA_BS21_NT_300_5_UDI)
SET_COMP ("rate", UR_0_3_KBIT)
SET_COMP ("bearer_serv", BEARER_SERV_ASYNC)
SET_COMP ("conn_elem", CONN_ELEM_NON_TRANS)
SET_COMP ("stop_bits", STOP_2_BIT)
SET_COMP ("data_bits", DATA_8_BIT)
SET_COMP ("parity", PARITY_NONE)
SET_COMP ("flow_control", OUTBAND_FLOW_CONTROL)
```

```
SET_COMP ("modem_type", MT_NONE)
ENDSTRUCT

/* BC_PARA_BS21_T_300_UDI */

BEGIN_PSTRUCT ("bcpara", BC_PARA_BS21_T_300_UDI)
SET_COMP ("rate", UR_0_3_KBIT)
SET_COMP ("bearer_serv", BEARER_SERV_ASYNC)
SET_COMP ("conn_elem", CONN_ELEM_TRANS)
SET_COMP ("stop_bits", STOP_2_BIT)
SET_COMP ("data_bits", DATA_8_BIT)
SET_COMP ("parity", PARITY_NONE)
SET_COMP ("flow_control", OUTBAND_FLOW_CONTROL)
SET_COMP ("modem_type", MT_NONE)
ENDSTRUCT

/* BC_PARA_BS22_T_1200 */

BEGIN_PSTRUCT ("bcpara", BC_PARA_BS22_T_1200)
SET_COMP ("rate", UR_1_2_KBIT)
SET_COMP ("bearer_serv", BEARER_SERV_ASYNC)
SET_COMP ("conn_elem", CONN_ELEM_TRANS)
SET_COMP ("stop_bits", STOP_2_BIT)
SET_COMP ("data_bits", DATA_8_BIT)
SET_COMP ("parity", PARITY_NONE)
SET_COMP ("flow_control", OUTBAND_FLOW_CONTROL)
SET_COMP ("modem_type", MT_V22)
ENDSTRUCT

/* BC_PARA_BS22_T_1200_UDI */

BEGIN_PSTRUCT ("bcpara", BC_PARA_BS22_T_1200_UDI)
SET_COMP ("rate", UR_1_2_KBIT)
SET_COMP ("bearer_serv", BEARER_SERV_ASYNC)
SET_COMP ("conn_elem", CONN_ELEM_TRANS)
SET_COMP ("stop_bits", STOP_2_BIT)
SET_COMP ("data_bits", DATA_8_BIT)
SET_COMP ("parity", PARITY_NONE)
SET_COMP ("flow_control", OUTBAND_FLOW_CONTROL)
SET_COMP ("modem_type", MT_NONE)
ENDSTRUCT

/* BC_PARA_BS22_NT_1200 */

BEGIN_PSTRUCT ("bcpara", BC_PARA_BS22_NT_1200)
SET_COMP ("rate", UR_1_2_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_7_BIT)
SET_COMP ("parity", PARITY_ODD)
SET_COMP ("flow_control", INBAND_FLOW_CONTROL)
```

```
SET_COMP ("modem_type", MT_V22)
ENDSTRUCT

/* BC_PARA_BS22_NT_1200_UDI */

BEGIN_PSTRUCT ("bcpara", BC_PARA_BS22_NT_1200_UDI)
SET_COMP ("rate", UR_1_2_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_7_BIT)
SET_COMP ("parity", PARITY_ODD)
SET_COMP ("flow_control", INBAND_FLOW_CONTROL)
SET_COMP ("modem_type", MT_NONE)
ENDSTRUCT

/* BC_PARA_BS24_T_2400 */

BEGIN_PSTRUCT ("bcpara", BC_PARA_BS24_T_2400)
SET_COMP ("rate", UR_2_4_KBIT)
SET_COMP ("bearer_serv", BEARER_SERV_ASYNC)
SET_COMP ("conn_elem", CONN_ELEM_TRANS)
SET_COMP ("stop_bits", STOP_2_BIT)
SET_COMP ("data_bits", DATA_8_BIT)
SET_COMP ("parity", PARITY_NONE)
SET_COMP ("flow_control", OUTBAND_FLOW_CONTROL)
SET_COMP ("modem_type", MT_V22_BIS)
ENDSTRUCT

/* BC_PARA_BS24_T_2400_UDI */

BEGIN_PSTRUCT ("bcpara", BC_PARA_BS24_T_2400_UDI)
SET_COMP ("rate", UR_2_4_KBIT)
SET_COMP ("bearer_serv", BEARER_SERV_ASYNC)
SET_COMP ("conn_elem", CONN_ELEM_TRANS)
SET_COMP ("stop_bits", STOP_2_BIT)
SET_COMP ("data_bits", DATA_8_BIT)
SET_COMP ("parity", PARITY_NONE)
SET_COMP ("flow_control", OUTBAND_FLOW_CONTROL)
SET_COMP ("modem_type", MT_NONE)
ENDSTRUCT

/* BC_PARA_BS24_NT_2400 */

BEGIN_PSTRUCT ("bcpara", BC_PARA_BS24_NT_2400)
SET_COMP ("rate", UR_2_4_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_7_BIT)
SET_COMP ("parity", PARITY_ODD)
SET_COMP ("flow_control", INBAND_FLOW_CONTROL)
```

```
SET_COMP ("modem_type", MT_V26_TER)
ENDSTRUCT

/* BC_PARA_BS24_NT_2400_V22BIS */

BEGIN_PSTRUCT ("bcpara", BC_PARA_BS24_NT_2400_V22BIS)
SET_COMP ("rate", UR_2_4_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_7_BIT)
SET_COMP ("parity", PARITY_ODD)
SET_COMP ("flow_control", INBAND_FLOW_CONTROL)
SET_COMP ("modem_type", MT_V22_BIS)
ENDSTRUCT

/* BC_PARA_BS24_NT_2400_UDI */

BEGIN_PSTRUCT ("bcpara", BC_PARA_BS24_NT_2400_UDI)
SET_COMP ("rate", UR_2_4_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_7_BIT)
SET_COMP ("parity", PARITY_ODD)
SET_COMP ("flow_control", INBAND_FLOW_CONTROL)
SET_COMP ("modem_type", MT_NONE)
ENDSTRUCT

/* BC_PARA_BS25_T_4800 */

BEGIN_PSTRUCT ("bcpara", BC_PARA_BS25_T_4800)
SET_COMP ("rate", UR_4_8_KBIT)
SET_COMP ("bearer_serv", BEARER_SERV_ASYNC)
SET_COMP ("conn_elem", CONN_ELEM_TRANS)
SET_COMP ("stop_bits", STOP_2_BIT)
SET_COMP ("data_bits", DATA_8_BIT)
SET_COMP ("parity", PARITY_NONE)
SET_COMP ("flow_control", OUTBAND_FLOW_CONTROL)
SET_COMP ("modem_type", MT_V32)
ENDSTRUCT

/* BC_PARA_BS25_T_4800_UDI */

BEGIN_PSTRUCT ("bcpara", BC_PARA_BS25_T_4800_UDI)
SET_COMP ("rate", UR_4_8_KBIT)
SET_COMP ("bearer_serv", BEARER_SERV_ASYNC)
SET_COMP ("conn_elem", CONN_ELEM_TRANS)
SET_COMP ("stop_bits", STOP_2_BIT)
SET_COMP ("data_bits", DATA_8_BIT)
SET_COMP ("parity", PARITY_NONE)
SET_COMP ("flow_control", OUTBAND_FLOW_CONTROL)
```

```
SET_COMP ("modem_type", MT_NONE)
ENDSTRUCT

/* BC_PARA_BS25_NT_4800 */

BEGIN_PSTRUCT ("bcpara", BC_PARA_BS25_NT_4800)
SET_COMP ("rate", UR_4_8_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_7_BIT)
SET_COMP ("parity", PARITY_ODD)
SET_COMP ("flow_control", INBAND_FLOW_CONTROL)
SET_COMP ("modem_type", MT_V32)
ENDSTRUCT

/* BC_PARA_BS25_NT_4800_UDI */

BEGIN_PSTRUCT ("bcpara", BC_PARA_BS25_NT_4800_UDI)
SET_COMP ("rate", UR_4_8_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_7_BIT)
SET_COMP ("parity", PARITY_ODD)
SET_COMP ("flow_control", INBAND_FLOW_CONTROL)
SET_COMP ("modem_type", MT_NONE)
ENDSTRUCT

/* BC_PARA_BS26_T_9600 */

BEGIN_PSTRUCT ("bcpara", BC_PARA_BS26_T_9600)
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_2_BIT)
SET_COMP ("data_bits", DATA_8_BIT)
SET_COMP ("parity", PARITY_NONE)
SET_COMP ("flow_control", OUTBAND_FLOW_CONTROL)
SET_COMP ("modem_type", MT_V32)
ENDSTRUCT

/* BC_PARA_BS26_T_9600A */

BEGIN_PSTRUCT ("bcpara", BC_PARA_BS26_T_9600A)
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_2_BIT)
SET_COMP ("data_bits", DATA_8_BIT)
SET_COMP ("parity", PARITY_NONE)
SET_COMP ("flow_control", OUTBAND_FLOW_CONTROL)
```

```
SET_COMP ("modem_type", MT_V32)
ENDSTRUCT

/* BC_PARA_BS26_T_9600B */

BEGIN_PSTRUCT ("bcpara", BC_PARA_BS26_T_9600B)
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_2_BIT)
SET_COMP ("data_bits", DATA_7_BIT)
SET_COMP ("parity", PARITY_ODD)
SET_COMP ("flow_control", OUTBAND_FLOW_CONTROL)
SET_COMP ("modem_type", MT_V32)
ENDSTRUCT

/* BC_PARA_BS26_T_9600C */

BEGIN_PSTRUCT ("bcpara", BC_PARA_BS26_T_9600C)
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", OUTBAND_FLOW_CONTROL)
SET_COMP ("modem_type", MT_AUTOBAUD)
ENDSTRUCT

/* BC_PARA_BS26_T_9600D */

BEGIN_PSTRUCT ("bcpara", BC_PARA_BS26_T_9600D)
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_2_BIT)
SET_COMP ("data_bits", DATA_8_BIT)
SET_COMP ("parity", PARITY_NONE)
SET_COMP ("flow_control", OUTBAND_FLOW_CONTROL)
SET_COMP ("modem_type", MT_AUTOBAUD)
ENDSTRUCT

/* BC_PARA_BS26_T_9600_UDI */

BEGIN_PSTRUCT ("bcpara", BC_PARA_BS26_T_9600_UDI)
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_2_BIT)
SET_COMP ("data_bits", DATA_8_BIT)
SET_COMP ("parity", PARITY_NONE)
SET_COMP ("flow_control", OUTBAND_FLOW_CONTROL)
```

```
SET_COMP ("modem_type", MT_NONE)
ENDSTRUCT

/* BC_PARA_BS26_NT_9600 */

BEGIN_PSTRUCT ("bcpara", BC_PARA_BS26_NT_9600)
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_7_BIT)
SET_COMP ("parity", PARITY_ODD)
SET_COMP ("flow_control", INBAND_FLOW_CONTROL)
SET_COMP ("modem_type", MT_V32)
ENDSTRUCT

/* BC_PARA_BS26_NT_9600A */

BEGIN_PSTRUCT ("bcpara", BC_PARA_BS26_NT_9600A)
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_2_BIT)
SET_COMP ("data_bits", DATA_8_BIT)
SET_COMP ("parity", PARITY_NONE)
SET_COMP ("flow_control", OUTBAND_FLOW_CONTROL)
SET_COMP ("modem_type", MT_V32)
ENDSTRUCT

/* BC_PARA_BS26_NT_9600_UDI */

BEGIN_PSTRUCT ("bcpara", BC_PARA_BS26_NT_9600_UDI)
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_7_BIT)
SET_COMP ("parity", PARITY_ODD)
SET_COMP ("flow_control", INBAND_FLOW_CONTROL)
SET_COMP ("modem_type", MT_NONE)
ENDSTRUCT

/* BC_PARA_BS26_NT_9600_1 */

BEGIN_PSTRUCT ("bcpara", BC_PARA_BS26_NT_9600_1)
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_2_BIT)
SET_COMP ("data_bits", DATA_8_BIT)
SET_COMP ("parity", PARITY_NONE)
SET_COMP ("flow_control", NO_FLOW_CONTROL)
```

```
SET_COMP ("modem_type", MT_V32)
ENDSTRUCT

/* BC_PARA_BS26_BOTH_T_9600 */

BEGIN_PSTRUCT ("bcpara", BC_PARA_BS26_BOTH_T_9600)
SET_COMP ("rate", UR_9_6_KBIT)
SET_COMP ("bearer_serv", BEARER_SERV_ASYNC)
SET_COMP ("conn_elem", CONN_ELEM_TRANS_PREF)
SET_COMP ("stop_bits", STOP_2_BIT)
SET_COMP ("data_bits", DATA_8_BIT)
SET_COMP ("parity", PARITY_NONE)
SET_COMP ("flow_control", OUTBAND_FLOW_CONTROL)
SET_COMP ("modem_type", MT_V32)
ENDSTRUCT

/* BC_PARA_BS26_BOTH_NT_9600 */

BEGIN_PSTRUCT ("bcpara", BC_PARA_BS26_BOTH_NT_9600)
SET_COMP ("rate", UR_9_6_KBIT)
SET_COMP ("bearer_serv", BEARER_SERV_ASYNC)
SET_COMP ("conn_elem", CONN_ELEM_NON_TRANS_PREF)
SET_COMP ("stop_bits", STOP_2_BIT)
SET_COMP ("data_bits", DATA_8_BIT)
SET_COMP ("parity", PARITY_NONE)
SET_COMP ("flow_control", OUTBAND_FLOW_CONTROL)
SET_COMP ("modem_type", MT_V32)
ENDSTRUCT

/* BC_PARA_BS23_T */

BEGIN_PSTRUCT ("bcpara", BC_PARA_BS23_T)
SET_COMP ("rate", UR_1_2_KBIT_V23)
SET_COMP ("bearer_serv", BEARER_SERV_ASYNC)
SET_COMP ("conn_elem", CONN_ELEM_TRANS)
SET_COMP ("stop_bits", STOP_2_BIT)
SET_COMP ("data_bits", DATA_8_BIT)
SET_COMP ("parity", PARITY_NONE)
SET_COMP ("flow_control", OUTBAND_FLOW_CONTROL)
SET_COMP ("modem_type", MT_V23)
ENDSTRUCT

/* BC_PARA_BS23_NT */

BEGIN_PSTRUCT ("bcpara", BC_PARA_BS23_NT)
SET_COMP ("rate", UR_1_2_KBIT_V23)
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_7_BIT)
SET_COMP ("parity", PARITY_ODD)
SET_COMP ("flow_control", INBAND_FLOW_CONTROL)
```

```
SET_COMP ("modem_type", MT_V23)
ENDSTRUCT

/* BC_PARA_BS20_T_14400 */

BEGIN_PSTRUCT ("bcpara", BC_PARA_BS20_T_14400)
SET_COMP ("rate", UR_14_4_KBIT)
SET_COMP ("bearer_serv", BEARER_SERV_ASYNC)
SET_COMP ("conn_elem", CONN_ELEM_TRANS)
SET_COMP ("stop_bits", STOP_2_BIT)
SET_COMP ("data_bits", DATA_8_BIT)
SET_COMP ("parity", PARITY_NONE)
SET_COMP ("flow_control", OUTBAND_FLOW_CONTROL)
SET_COMP ("modem_type", MT_AUTOBAUD)
ENDSTRUCT

/* BC_PARA_BS20_NT_14400_1 */

BEGIN_PSTRUCT ("bcpara", BC_PARA_BS20_NT_14400_1)
SET_COMP ("rate", UR_14_4_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_7_BIT)
SET_COMP ("parity", PARITY_ODD)
SET_COMP ("flow_control", INBAND_FLOW_CONTROL)
SET_COMP ("modem_type", MT_AUTOBAUD)
ENDSTRUCT

/* BC_PARA_BS20_NT_14400_4 */

BEGIN_PSTRUCT ("bcpara", BC_PARA_BS20_NT_14400_4)
SET_COMP ("rate", UR_14_4_KBIT)
SET_COMP ("bearer_serv", BEARER_SERV_ASYNC)
SET_COMP ("conn_elem", CONN_ELEM_NON_TRANS)
SET_COMP ("stop_bits", STOP_2_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_AUTOBAUD)
ENDSTRUCT

/* BC_PARA_FAX_T_2400 */

BEGIN_PSTRUCT ("bcpara", BC_PARA_FAX_T_2400)
SET_COMP ("rate", UR_2_4_KBIT)
SET_COMP ("bearer_serv", BEARER_SERV_FAX)
SET_COMP ("conn_elem", CONN_ELEM_TRANS)
SET_COMP ("stop_bits", STOP_1_BIT)
SET_COMP ("data_bits", DATA_8_BIT)
SET_COMP ("parity", PARITY_NONE)
SET_COMP ("flow_control", OUTBAND_FLOW_CONTROL)
```

```
SET_COMP ("modem_type", MT_NONE)
ENDSTRUCT

/* BC_PARA_FAX_T_4800 */

BEGIN_PSTRUCT ("bcpara", BC_PARA_FAX_T_4800)
SET_COMP ("rate", UR_4_8_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", OUTBAND_FLOW_CONTROL)
SET_COMP ("modem_type", MT_NONE)
ENDSTRUCT

/* BC_PARA_FAX_T_9600 */

BEGIN_PSTRUCT ("bcpara", BC_PARA_FAX_T_9600)
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", OUTBAND_FLOW_CONTROL)
SET_COMP ("modem_type", MT_NONE)
ENDSTRUCT

/* USER_A_USER */

BEGIN_PSTRUCT ("user", USER_A_USER)
SET_COMP ("info_context", USER_IN_USER)
SET_COMP ("pd", PD_5)
SET_COMP ("c_info", C_INFO_4)
SET_COMP ("info", USER_A_4)
ENDSTRUCT

/* CH_DATA_9_6 */

BEGIN_PSTRUCT ("chm", CH_DATA_9_6)
SET_COMP ("ch_type", CH_TCH_F)
SET_COMP ("ch_mode", CHM_DATA_9_6)
ENDSTRUCT

/* CH_DATA_4_8 */

BEGIN_PSTRUCT ("chm", CH_DATA_4_8)
SET_COMP ("ch_type", CH_TCH_F)
SET_COMP ("ch_mode", CHM_DATA_4_8)
ENDSTRUCT

/* BC_CONF_NO_SERVICE */

BEGIN_PSTRUCT ("bcconf", BC_CONF_NO_SERVICE)
SET_COMP ("bc_len", BC_LEN_0)
```

```
SKIP_COMP ("bc") /* SAP indicates that if bc_len=0 then the bc component is not valid */
ENDSTRUCT
```

```
/* BC_CONF_SPEECH_FR_HR_EFR */
```

```
BEGIN_PSTRUCT ("bcconf", BC_CONF_SPEECH_FR_HR_EFR)
SET_COMP ("bc_len", BC_LEN_4)
SET_COMP ("bc", BC_CONF_SPEECH_FR_HR_EFR_ARRAY)
ENDSTRUCT
```

```
/* BC_CONF_BS21_T_300 */
```

```
BEGIN_PSTRUCT ("bcconf", BC_CONF_BS21_T_300)
SET_COMP ("bc_len", BC_LEN_7)
SET_COMP ("bc", BC_CONF_BS21_T_300_ARRAY)
ENDSTRUCT
```

```
/* BC_PARA_UNSUPP */
```

```
BEGIN_PSTRUCT ("bcpara", BC_PARA_UNSUPP)
SET_COMP ("rate", ZERO_VALUE)
SET_COMP ("bearer_serv", BEARER_SERV_15)
SET_COMP ("conn_elem", ZERO_VALUE)
SET_COMP ("stop_bits", ZERO_VALUE)
SET_COMP ("data_bits", ZERO_VALUE)
SET_COMP ("parity", ZERO_VALUE)
SET_COMP ("flow_control", ZERO_VALUE)
SET_COMP ("modem_type", ZERO_VALUE)
ENDSTRUCT
```

```
/* BC_CONF_PACKET_UNSUPP */
```

```
BEGIN_PSTRUCT ("bcconf", BC_CONF_PACKET_UNSUPP)
SET_COMP ("bc_len", BC_LEN_8)
SET_COMP ("bc", BC_CONF_PACKET_UNSUPP_ARRAY)
ENDSTRUCT
```

```
/* FACILITY_A_FAC */
```

```
BEGIN_PSTRUCT ("fac_inf", FACILITY_A_FAC)
SET_COMP ("l_fac", L_FAC_48)
SET_COMP ("o_fac", ZERO_VALUE)
SET_COMP ("fac", FACILITY_A_6)
ENDSTRUCT
```

```
/* FACILITY_NONE */
```

```
BEGIN_PSTRUCT ("fac_inf", FACILITY_NONE)
SET_COMP ("l_fac", 0)
SKIP_COMP ("o_fac")
SKIP_COMP ("fac")
ENDSTRUCT
```

```
/* CH_SPEECH_FULL */
```

```
BEGIN_PSTRUCT ("chm", CH_SPEECH_FULL)
SET_COMP ("ch_type", CH_TCH_F)
SET_COMP ("ch_mode", CHM_SPEECH)
ENDSTRUCT
```

```
/* CH_SIG_ONLY */
```

```
BEGIN_PSTRUCT ("chm", CH_SIG_ONLY)
SET_COMP ("ch_type", CH_SDCCH)
SET_COMP ("ch_mode", CHM_SIG_ONLY)
ENDSTRUCT
```

```
/* BC_PARA_SPEECH
```

0	User rate
5	Bearer serv speech
0	Connection element
0	Stop bits
0	Data bits
0	Parity
0	Flow control
0	Modem type

```
*/
```

```
BEGIN_PSTRUCT ("bcpara", BC_PARA_SPEECH)
    SET_COMP ("rate", ZERO_VALUE)
    SET_COMP ("bearer_serv", BEARER_SERV_SPEECH)
    SET_COMP ("conn_elem", ZERO_VALUE)
    SET_COMP ("stop_bits", ZERO_VALUE)
    SET_COMP ("data_bits", ZERO_VALUE)
    SET_COMP ("parity", ZERO_VALUE)
    SET_COMP ("flow_control", ZERO_VALUE)
    SET_COMP ("modem_type", ZERO_VALUE)
ENDSTRUCT
```

```
/* BC_PARA_SPEECH_LINE_2
```

0	User rate
6	Bearer serv aux speech
0	Connection element
0	Stop bits
0	Data bits
0	Parity
0	Flow control
0	Modem type

```
*/
```

```
BEGIN_PSTRUCT ("bcpara", BC_PARA_SPEECH_LINE_2)
    SET_COMP ("rate", ZERO_VALUE)
```

```

SET_COMP ("bearer_serv", BEARER_SERV_AUX_SPEECH)
SET_COMP ("conn_elem", ZERO_VALUE)
SET_COMP ("stop_bits", ZERO_VALUE)
SET_COMP ("data_bits", ZERO_VALUE)
SET_COMP ("parity", ZERO_VALUE)
SET_COMP ("flow_control", ZERO_VALUE)
SET_COMP ("modem_type", ZERO_VALUE)

```

ENDSTRUCT

/\* BC\_PARA\_SPEECH with CTM

0	User rate
5	Bearer serv speech
0	Connection element
0	Stop bits
0	Data bits
0	Parity
0	Flow control
0	Modem type

\*/

```

BEGIN_PSTRUCT ("bcpara", BC_PARA_SPEECH_CTM)
  SET_COMP ("rate", ZERO_VALUE)
  SET_COMP ("bearer_serv", BEARER_SERV_SPEECH_CTM)
  SET_COMP ("conn_elem", ZERO_VALUE)
  SET_COMP ("stop_bits", ZERO_VALUE)
  SET_COMP ("data_bits", ZERO_VALUE)
  SET_COMP ("parity", ZERO_VALUE)
  SET_COMP ("flow_control", ZERO_VALUE)
  SET_COMP ("modem_type", ZERO_VALUE)

```

ENDSTRUCT

/\* BC\_PARA\_SPEECH\_LINE\_2 with CTM

0	User rate
6	Bearer serv aux speech
0	Connection element
0	Stop bits
0	Data bits
0	Parity
0	Flow control
0	Modem type

\*/

```

BEGIN_PSTRUCT ("bcpara", BC_PARA_SPEECH_LINE_2_CTM)
  SET_COMP ("rate", ZERO_VALUE)
  SET_COMP ("bearer_serv", BEARER_SERV_AUX_SPEECH_CTM)
  SET_COMP ("conn_elem", ZERO_VALUE)
  SET_COMP ("stop_bits", ZERO_VALUE)
  SET_COMP ("data_bits", ZERO_VALUE)

```

```

    SET_COMP ("parity", ZERO_VALUE)
    SET_COMP ("flow_control", ZERO_VALUE)
    SET_COMP ("modem_type", ZERO_VALUE)

```

```
ENDSTRUCT
```

```
/*
```

1	User rate 300
1	Bearer serv async
0	Connection element transparent
1	Stop bits (2)
1	Data bits (8)
3	Parity (none)
255	Flow control (outband)
1	Modem type (V.21)

```
*/
```

```

BEGIN_PSTRUCT ("bcpara", BC_PARA_BS21_T_300)
    SET_COMP ("rate", UR_0_3_KBIT)
    SET_COMP ("bearer_serv", BEARER_SERV_ASYNC)
    SET_COMP ("conn_elem", CONN_ELEM_TRANS)
    SET_COMP ("stop_bits", STOP_2_BIT)
    SET_COMP ("data_bits", DATA_8_BIT)
    SET_COMP ("parity", PARITY_NONE)
    SET_COMP ("flow_control", OUTBAND_FLOW_CONTROL)
    SET_COMP ("modem_type", MT_V21)

```

```
ENDSTRUCT
```

```
/*
```

1	User rate 300
1	Bearer serv async
2	Connection element both, transparent preferred
1	Stop bits (2)
1	Data bits (8)
3	Parity (none)
255	Flow control (outband)
1	Modem type (V.21)

```
*/
```

```

BEGIN_PSTRUCT ("bcpara", BC_PARA_BS21_BTP_300)
    SET_COMP ("rate", UR_0_3_KBIT)
    SET_COMP ("bearer_serv", BEARER_SERV_ASYNC)
    SET_COMP ("conn_elem", CONN_ELEM_TRANS_PREF)
    SET_COMP ("stop_bits", STOP_2_BIT)
    SET_COMP ("data_bits", DATA_8_BIT)
    SET_COMP ("parity", PARITY_NONE)
    SET_COMP ("flow_control", OUTBAND_FLOW_CONTROL)

```

```

    SET_COMP ("modem_type", MT_V21)
ENDSTRUCT

```

```

/* BC_PARA_NO_SERVICE

```

0	User rate
255	Bearer serv none
0	Connection element
0	stop bits
0	data bits
0	Parity
0	flow control
0	Modem type

```

*/

```

```

BEGIN_PSTRUCT ("bcpara", BC_PARA_NO_SERVICE)
    SET_COMP ("rate", ZERO_VALUE)
    SET_COMP ("bearer_serv", BEARER_SERV_NOT_PRES)
    SET_COMP ("conn_elem", ZERO_VALUE)
    SET_COMP ("stop_bits", ZERO_VALUE)
    SET_COMP ("data_bits", ZERO_VALUE)
    SET_COMP ("parity", ZERO_VALUE)
    SET_COMP ("flow_control", ZERO_VALUE)
    SET_COMP ("modem_type", ZERO_VALUE)

```

```

ENDSTRUCT

```

```

/* called_party (Called party BCD number) */

```

```

BEGIN_PSTRUCT ("called_party", CLED_PARTY_654321)
    SET_COMP ("ton", TON_NATIONAL)
    SET_COMP ("npi", NPI_NATIONAL)
    SET_COMP ("c_called_num", 6)
    SET_COMP ("called_num", NUM_654321)

```

```

ENDSTRUCT

```

```

BEGIN_PSTRUCT ("called_party", CLED_PARTY_7654321)
    SET_COMP ("ton", TON_NATIONAL)
    SET_COMP ("npi", NPI_NATIONAL)
    SET_COMP ("c_called_num", 7)
    SET_COMP ("called_num", NUM_7654321)

```

```

ENDSTRUCT

```

```

/* redir_party (Redirecting party BCD number) */

```

```

BEGIN_PSTRUCT ("redirecting_party", REDIR_PARTY_NONE)
    SKIP_COMP ("ton")
    SKIP_COMP ("npi")
    SKIP_COMP ("present")
    SKIP_COMP ("screen")
    SET_COMP ("c_redir_num", 0)
    SKIP_COMP ("redir_num")

```

```

ENDSTRUCT

```

```
/* called_party_sub (Called party subaddress) */
BEGIN_PSTRUCT ("called_party_sub", CLED_PARTY_SUB_NONE)
    SET_COMP ("tos", TOS_NOT_PRES)
    SKIP_COMP ("odd_even")
    SET_COMP ("c_subaddr", ZERO_VALUE)
    SKIP_COMP ("subaddr")
ENDSTRUCT

/* redir_party_sub (Redirecting party subaddress) */
BEGIN_PSTRUCT ("redirecting_party_sub", REDIR_PARTY_SUB_NONE)
    SET_COMP ("tos", TOS_NOT_PRES)
    SKIP_COMP ("odd_even")
    SET_COMP ("c_subaddr", ZERO_VALUE)
    SKIP_COMP ("subaddr")
ENDSTRUCT
```

```
/* MSTRUCTS */

/* reverse_call */
BEGIN_MSTRUCT ("reverse_call", RCS_IE_PRESENT)
ENDSTRUCT

/* key_facility (Keypad facility) */
BEGIN_MSTRUCT ("key_facility", KEY_FACILITY_9)
    SET_COMP ("key", DIG_9)
ENDSTRUCT

BEGIN_MSTRUCT ("cc_cause",                CC_CAUSE_CALL_CLEAR)
    SET_COMP ("cs",                CS_GSM_PLMN)
    SET_COMP ("loc",                LOC_USER)
    SKIP_COMP ("rec")
    SET_COMP ("cause",                CAUSE_CALL_CLEAR)
    SKIP_COMP ("diag")
ENDSTRUCT

/* progress (Progress indicator) */
BEGIN_MSTRUCT ("progress", PROG_1)
    SET_COMP ("cs", CS_GSM_PLMN)
    SET_COMP ("loc", LOC_PRIV_NET_LOCAL_USER)
    SET_COMP ("progress_desc", PROG_END_TO_END_PLMN)
ENDSTRUCT

BEGIN_MSTRUCT ("call_ctrl_cap", CALL_CTRL_CAP_1)
    SET_COMP ("pcp", PCP_YES)
    SET_COMP ("dtmf", DTMF_CURRENT)
ENDSTRUCT

/* connect_num */
BEGIN_MSTRUCT ("connect_num", CONNECT_NUM_654321)
    SET_COMP ("ton",                TON_NATIONAL)
    SET_COMP ("npi",                NPI_NATIONAL)
    SET_COMP ("present",            PRES_ALLOWED)
    SET_COMP ("screen",            SCR_USER_UNSCREENED)
    SET_COMP ("num",                NUM_654321)
ENDSTRUCT

/* connected_number */
BEGIN_PSTRUCT ("connected_number", CONNECTED_NUMBER_654321)
    SET_COMP ("ton",                TON_NATIONAL)
    SET_COMP ("npi",                NPI_NATIONAL)
    SET_COMP ("present",            PRES_ALLOWED)
    SET_COMP ("screen",            SCR_USER_UNSCREENED)
    SET_COMP ("c_num",                6)
    SET_COMP ("num",                NUM_654321)
ENDSTRUCT

/* called_num (Called party BCD number) */
BEGIN_MSTRUCT ("ul_called_num", UL_CLED_NUM_654321)
```

```

        SET_COMP ("ton", TON_NATIONAL )
        SET_COMP ("npi", NPI_NATIONAL )
        SET_COMP ("num", NUM_654321)
ENDSTRUCT
BEGIN_MSTRUCT ("ul_called_num", UL_CLED_NUM_7654321)
        SET_COMP ("ton",          TON_NATIONAL )
        SET_COMP ("npi",          NPI_NATIONAL )
        SET_COMP ("num",          NUM_7654321)
ENDSTRUCT
BEGIN_MSTRUCT ("dl_called_num", DL_CLED_NUM_654321)
        SET_COMP ("ton", TON_NATIONAL )
        SET_COMP ("npi", NPI_NATIONAL )
        SET_COMP ("num", NUM_654321)
ENDSTRUCT
BEGIN_MSTRUCT ("dl_called_num", DL_CLED_NUM_7654321)
        SET_COMP ("ton",          TON_NATIONAL )
        SET_COMP ("npi",          NPI_NATIONAL )
        SET_COMP ("num",          NUM_7654321)
ENDSTRUCT

/* calling_num (Calling party BCD number) */
BEGIN_MSTRUCT ("calling_num", CLNG_NUM_654321)
        SET_COMP ("ton", TON_NATIONAL )
        SET_COMP ("npi", NPI_NATIONAL )
        SET_COMP ("present", PRES_ALLOWED)
        SET_COMP ("screen", SCR_USER_UNSCREENED)
        SET_COMP ("num", NUM_654321)
ENDSTRUCT
BEGIN_MSTRUCT ("calling_num", CLNG_NUM_7654321)
        SET_COMP ("ton",          TON_NATIONAL )
        SET_COMP ("npi",          NPI_NATIONAL )
        SET_COMP ("present",      PRES_ALLOWED)
        SET_COMP ("screen",       SCR_USER_UNSCREENED)
        SET_COMP ("num",          NUM_7654321)
ENDSTRUCT

/* calling_party (Calling party address) */
BEGIN_PSTRUCT ("calling_party", CLNG_PARTY_654321)
        SET_COMP ("ton",          TON_NATIONAL )
        SET_COMP ("npi",          NPI_NATIONAL )
        SET_COMP ("present",      PRES_ALLOWED)
        SET_COMP ("screen",       SCR_USER_UNSCREENED)
        SET_COMP ("c_num",        6)
        SET_COMP ("num",          NUM_654321)
ENDSTRUCT
BEGIN_PSTRUCT ("calling_party", CLNG_PARTY_7654321)
        SET_COMP ("ton",          TON_NATIONAL )

```

```

SET_COMP ("npi", NPI_NATIONAL )
SET_COMP ("present", PRES_ALLOWED)
SET_COMP ("screen", SCR_USER_UNSCREENED)
SET_COMP ("c_num", 7)
SET_COMP ("num", NUM_7654321)

```

```
ENDSTRUCT
```

```
/* bearer_cap (Bearer capability) */
```

```

BEGIN_MSTRUCT ("bearer_cap", BC_SPEECH_FR)
  SET_COMP ("rad_chan_req", RCR_FULL_ONLY)
  SET_COMP ("code", CS_Q931)
  SET_COMP ("trans_mode", TM_CIRCUIT)
  SET_COMP ("trans_cap", ITC_SPEECH)
  SKIP_COMP ("coding_bc3x1")
  SKIP_COMP ("ctm")
  SKIP_COMP ("speech_vers1")
  SKIP_COMP ("coding_bc3x2")
  SKIP_COMP ("speech_vers2")
  SKIP_COMP ("coding_bc3x3")
  SKIP_COMP ("speech_vers3")
  SKIP_COMP ("coding_bc3x4")
  SKIP_COMP ("speech_vers4")
  SKIP_COMP ("coding_bc3x5")
  SKIP_COMP ("speech_vers5")
  FORBID_COMP ("compress")
  FORBID_COMP ("structure")
  FORBID_COMP ("duplex")
  FORBID_COMP ("config")
  FORBID_COMP ("nirr")
  FORBID_COMP ("establish")
  FORBID_COMP ("access_ident")
  FORBID_COMP ("rate_adapt")
  FORBID_COMP ("sig_access_prot")
  FORBID_COMP ("l1_ident")
  FORBID_COMP ("user_inf_l1_prot")
  FORBID_COMP ("sync_async")
  FORBID_COMP ("num_stop")
  FORBID_COMP ("negotiate")
  FORBID_COMP ("num_data")
  FORBID_COMP ("user_rate")
  FORBID_COMP ("intermed_rate")
  FORBID_COMP ("nic_tx")
  FORBID_COMP ("nic_rx")
  FORBID_COMP ("parity")
  FORBID_COMP ("conn_elem")
  FORBID_COMP ("modem_type")
  FORBID_COMP ("modem_type_2")
  FORBID_COMP ("fnur")
  FORBID_COMP ("acc")

```

```
FORBID_COMP ("mTch")
FORBID_COMP ("uimi")
FORBID_COMP ("waiur")
FORBID_COMP ("l2_ident")
FORBID_COMP ("user_inf_l2_prot")
```

ENDSTRUCT

```
BEGIN_MSTRUCT ("bearer_cap", BC_AUX_SPEECH_FR)
  SET_COMP ("rad_chan_req", RCR_FULL_ONLY)
  SET_COMP ("code", CS_Q931)
  SET_COMP ("trans_mode", TM_CIRCUIT)
  SET_COMP ("trans_cap", ITC_AUXILIARY_SPEECH)
  SKIP_COMP ("coding_bc3x1")
  SKIP_COMP ("ctm")
  SKIP_COMP ("speech_vers1")
  SKIP_COMP ("coding_bc3x2")
  SKIP_COMP ("speech_vers2")
  SKIP_COMP ("coding_bc3x3")
  SKIP_COMP ("speech_vers3")
  SKIP_COMP ("coding_bc3x4")
  SKIP_COMP ("speech_vers4")
  SKIP_COMP ("coding_bc3x5")
  SKIP_COMP ("speech_vers5")
  SKIP_COMP ("compress")
  SKIP_COMP ("structure")
  FORBID_COMP ("duplex")
  FORBID_COMP ("config")
  FORBID_COMP ("nirr")
  FORBID_COMP ("establish")
  FORBID_COMP ("access_ident")
  FORBID_COMP ("rate_adapt")
  FORBID_COMP ("sig_access_prot")
  FORBID_COMP ("l1_ident")
  FORBID_COMP ("user_inf_l1_prot")
  FORBID_COMP ("sync_async")
  FORBID_COMP ("num_stop")
  FORBID_COMP ("negotiate")
  FORBID_COMP ("num_data")
  FORBID_COMP ("user_rate")
  FORBID_COMP ("intermed_rate")
  FORBID_COMP ("nic_tx")
  FORBID_COMP ("nic_rx")
  FORBID_COMP ("parity")
  FORBID_COMP ("conn_elem")
  FORBID_COMP ("modem_type")
  FORBID_COMP ("modem_type_2")
  FORBID_COMP ("fnur")
  FORBID_COMP ("acc")
  FORBID_COMP ("mTch")
```

```
FORBID_COMP ("uimi")
FORBID_COMP ("waiur")
FORBID_COMP ("l2_ident")
FORBID_COMP ("user_inf_l2_prot")
```

```
ENDSTRUCT
```

```
BEGIN_MSTRUCT ("bearer_cap", BC_SPEECH_FR_HR)
  SET_COMP ("rad_chan_req", RCR_FULL_PREF)
  SET_COMP ("code", CS_Q931)
  SET_COMP ("trans_mode", TM_CIRCUIT)
  SET_COMP ("trans_cap", ITC_SPEECH)
  SKIP_COMP ("coding_bc3x1")
  SKIP_COMP ("ctm")
  SKIP_COMP ("speech_vers1")
  SKIP_COMP ("coding_bc3x2")
  SKIP_COMP ("speech_vers2")
  SKIP_COMP ("coding_bc3x3")
  SKIP_COMP ("speech_vers3")
  SKIP_COMP ("coding_bc3x4")
  SKIP_COMP ("speech_vers4")
  SKIP_COMP ("coding_bc3x5")
  SKIP_COMP ("speech_vers5")
  FORBID_COMP ("compress")
  FORBID_COMP ("structure")
  FORBID_COMP ("duplex")
  FORBID_COMP ("config")
  FORBID_COMP ("nirr")
  FORBID_COMP ("establish")
  FORBID_COMP ("access_ident")
  FORBID_COMP ("rate_adapt")
  FORBID_COMP ("sig_access_prot")
  FORBID_COMP ("l1_ident")
  FORBID_COMP ("user_inf_l1_prot")
  FORBID_COMP ("sync_async")
  FORBID_COMP ("num_stop")
  FORBID_COMP ("negotiate")
  FORBID_COMP ("num_data")
  FORBID_COMP ("user_rate")
  FORBID_COMP ("intermed_rate")
  FORBID_COMP ("nic_tx")
  FORBID_COMP ("nic_rx")
  FORBID_COMP ("parity")
  FORBID_COMP ("conn_elem")
  FORBID_COMP ("modem_type")
  FORBID_COMP ("modem_type_2")
  FORBID_COMP ("fnur")
  FORBID_COMP ("acc")
  FORBID_COMP ("mTch")
  FORBID_COMP ("uimi")
```

```
FORBID_COMP ("waiur")
FORBID_COMP ("l2_ident")
FORBID_COMP ("user_inf_l2_prot")
```

```
ENDSTRUCT
```

```
BEGIN_MSTRUCT ("bearer_cap", BC_SPEECH_AMR_EFR_HR_FR)
  SET_COMP ("rad_chan_req", RCR_FULL_PREF)
  SET_COMP ("code", CS_Q931)
  SET_COMP ("trans_mode", TM_CIRCUIT)
  SET_COMP ("trans_cap", ITC_SPEECH)
  SET_COMP ("coding_bc3x1", CODING_BC3X_SPEECH)
  SET_COMP ("ctm", CTM_NO)
  SET_COMP ("speech_vers1", SPEECH_VERS_AMR_FR)
  SET_COMP ("coding_bc3x2", CODING_BC3X_SPEECH)
  SET_COMP ("speech_vers2", SPEECH_VERS_AMR_HR)
  SET_COMP ("coding_bc3x3", CODING_BC3X_SPEECH)
  SET_COMP ("speech_vers3", SPEECH_VERS_EFR)
  SET_COMP ("coding_bc3x4", CODING_BC3X_SPEECH)
  SET_COMP ("speech_vers4", SPEECH_VERS_FR)
  SET_COMP ("coding_bc3x5", CODING_BC3X_SPEECH)
  SET_COMP ("speech_vers5", SPEECH_VERS_HR)
  FORBID_COMP ("compress")
  FORBID_COMP ("structure")
  FORBID_COMP ("duplex")
  FORBID_COMP ("config")
  FORBID_COMP ("nirr")
  FORBID_COMP ("establish")
  FORBID_COMP ("access_ident")
  FORBID_COMP ("rate_adapt")
  FORBID_COMP ("sig_access_prot")
  FORBID_COMP ("l1_ident")
  FORBID_COMP ("user_inf_l1_prot")
  FORBID_COMP ("sync_async")
  FORBID_COMP ("num_stop")
  FORBID_COMP ("negotiate")
  FORBID_COMP ("num_data")
  FORBID_COMP ("user_rate")
  FORBID_COMP ("intermed_rate")
  FORBID_COMP ("nic_tx")
  FORBID_COMP ("nic_rx")
  FORBID_COMP ("parity")
  FORBID_COMP ("conn_elem")
  FORBID_COMP ("modem_type")
  FORBID_COMP ("modem_type_2")
  FORBID_COMP ("fnur")
  FORBID_COMP ("acc")
  FORBID_COMP ("mTch")
  FORBID_COMP ("uimi")
  FORBID_COMP ("waiur")
```

```
FORBID_COMP ("l2_ident")
FORBID_COMP ("user_inf_l2_prot")
ENDSTRUCT

BEGIN_MSTRUCT ("bearer_cap", BC_SPEECH_FR_CTM)
SET_COMP ("rad_chan_req", RCR_FULL_ONLY)
SET_COMP ("code", CS_Q931)
SET_COMP ("trans_mode", TM_CIRCUIT)
SET_COMP ("trans_cap", ITC_SPEECH)
SET_COMP ("coding_bc3x1", CODING_BC3X_SPEECH)
SET_COMP ("ctm", CTM_YES)
SKIP_COMP ("speech_vers1")
SKIP_COMP ("coding_bc3x2")
SKIP_COMP ("speech_vers2")
SKIP_COMP ("coding_bc3x3")
SKIP_COMP ("speech_vers3")
SKIP_COMP ("coding_bc3x4")
SKIP_COMP ("speech_vers4")
SKIP_COMP ("coding_bc3x5")
SKIP_COMP ("speech_vers5")
FORBID_COMP ("compress")
FORBID_COMP ("structure")
FORBID_COMP ("duplex")
FORBID_COMP ("config")
FORBID_COMP ("nirr")
FORBID_COMP ("establish")
FORBID_COMP ("access_ident")
FORBID_COMP ("rate_adapt")
FORBID_COMP ("sig_access_prot")
FORBID_COMP ("l1_ident")
FORBID_COMP ("user_inf_l1_prot")
FORBID_COMP ("sync_async")
FORBID_COMP ("num_stop")
FORBID_COMP ("negotiate")
FORBID_COMP ("num_data")
FORBID_COMP ("user_rate")
FORBID_COMP ("intermed_rate")
FORBID_COMP ("nic_tx")
FORBID_COMP ("nic_rx")
FORBID_COMP ("parity")
FORBID_COMP ("conn_elem")
FORBID_COMP ("modem_type")
FORBID_COMP ("modem_type_2")
FORBID_COMP ("fnur")
FORBID_COMP ("acc")
FORBID_COMP ("mTch")
FORBID_COMP ("uimi")
FORBID_COMP ("waiur")
FORBID_COMP ("l2_ident")
```

```
FORBID_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_AUX_SPEECH_FR_CTM)
  SET_COMP ("rad_chan_req", RCR_FULL_ONLY)
  SET_COMP ("code", CS_Q931)
  SET_COMP ("trans_mode", TM_CIRCUIT)
  SET_COMP ("trans_cap", ITC_AUXILIARY_SPEECH)
  SET_COMP ("coding_bc3x1", CODING_BC3X_SPEECH)
  SET_COMP ("ctm", CTM_YES)
  SKIP_COMP ("speech_vers1")
  SKIP_COMP ("coding_bc3x2")
  SKIP_COMP ("speech_vers2")
  SKIP_COMP ("coding_bc3x3")
  SKIP_COMP ("speech_vers3")
  SKIP_COMP ("coding_bc3x4")
  SKIP_COMP ("speech_vers4")
  SKIP_COMP ("coding_bc3x5")
  SKIP_COMP ("speech_vers5")
  FORBID_COMP ("compress")
  FORBID_COMP ("structure")
  FORBID_COMP ("duplex")
  FORBID_COMP ("config")
  FORBID_COMP ("nirr")
  FORBID_COMP ("establish")
  FORBID_COMP ("access_ident")
  FORBID_COMP ("rate_adapt")
  FORBID_COMP ("sig_access_prot")
  FORBID_COMP ("l1_ident")
  FORBID_COMP ("user_inf_l1_prot")
  FORBID_COMP ("sync_async")
  FORBID_COMP ("num_stop")
  FORBID_COMP ("negotiate")
  FORBID_COMP ("num_data")
  FORBID_COMP ("user_rate")
  FORBID_COMP ("intermed_rate")
  FORBID_COMP ("nic_tx")
  FORBID_COMP ("nic_rx")
  FORBID_COMP ("parity")
  FORBID_COMP ("conn_elem")
  FORBID_COMP ("modem_type")
  FORBID_COMP ("modem_type_2")
  FORBID_COMP ("fnur")
  FORBID_COMP ("acc")
  FORBID_COMP ("mTch")
  FORBID_COMP ("uimi")
  FORBID_COMP ("waiur")
  FORBID_COMP ("l2_ident")
```

```
FORBID_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_SPEECH_FR_HR_CTM)
  SET_COMP ("rad_chan_req", RCR_FULL_PREF)
  SET_COMP ("code", CS_Q931)
  SET_COMP ("trans_mode", TM_CIRCUIT)
  SET_COMP ("trans_cap", ITC_SPEECH)
  SET_COMP ("coding_bc3x1", CODING_BC3X_SPEECH)
  SET_COMP ("ctm", CTM_YES)
  SKIP_COMP ("speech_vers1")
  SKIP_COMP ("coding_bc3x2")
  SKIP_COMP ("speech_vers2")
  SKIP_COMP ("coding_bc3x3")
  SKIP_COMP ("speech_vers3")
  SKIP_COMP ("coding_bc3x4")
  SKIP_COMP ("speech_vers4")
  SKIP_COMP ("coding_bc3x5")
  SKIP_COMP ("speech_vers5")
  FORBID_COMP ("compress")
  FORBID_COMP ("structure")
  FORBID_COMP ("duplex")
  FORBID_COMP ("config")
  FORBID_COMP ("nirr")
  FORBID_COMP ("establish")
  FORBID_COMP ("access_ident")
  FORBID_COMP ("rate_adapt")
  FORBID_COMP ("sig_access_prot")
  FORBID_COMP ("l1_ident")
  FORBID_COMP ("user_inf_l1_prot")
  FORBID_COMP ("sync_async")
  FORBID_COMP ("num_stop")
  FORBID_COMP ("negotiate")
  FORBID_COMP ("num_data")
  FORBID_COMP ("user_rate")
  FORBID_COMP ("intermed_rate")
  FORBID_COMP ("nic_tx")
  FORBID_COMP ("nic_rx")
  FORBID_COMP ("parity")
  FORBID_COMP ("conn_elem")
  FORBID_COMP ("modem_type")
  FORBID_COMP ("modem_type_2")
  FORBID_COMP ("fnur")
  FORBID_COMP ("acc")
  FORBID_COMP ("mTch")
  FORBID_COMP ("uimi")
  FORBID_COMP ("waiur")
  FORBID_COMP ("l2_ident")
```

```
FORBID_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_SPEECH_AMR_EFR_HR_FR_CTM)
  SET_COMP ("rad_chan_req", RCR_FULL_PREF)
  SET_COMP ("code", CS_Q931)
  SET_COMP ("trans_mode", TM_CIRCUIT)
  SET_COMP ("trans_cap", ITC_SPEECH)
  SET_COMP ("coding_bc3x1", CODING_BC3X_SPEECH)
  SET_COMP ("ctm", CTM_YES)
  SET_COMP ("speech_vers1", SPEECH_VERS_AMR_FR)
  SET_COMP ("coding_bc3x2", CODING_BC3X_SPEECH)
  SET_COMP ("speech_vers2", SPEECH_VERS_AMR_HR)
  SET_COMP ("coding_bc3x3", CODING_BC3X_SPEECH)
  SET_COMP ("speech_vers3", SPEECH_VERS_EFR)
  SET_COMP ("coding_bc3x4", CODING_BC3X_SPEECH)
  SET_COMP ("speech_vers4", SPEECH_VERS_FR)
  SET_COMP ("coding_bc3x5", CODING_BC3X_SPEECH)
  SET_COMP ("speech_vers5", SPEECH_VERS_HR)
  FORBID_COMP ("compress")
  FORBID_COMP ("structure")
  FORBID_COMP ("duplex")
  FORBID_COMP ("config")
  FORBID_COMP ("nirr")
  FORBID_COMP ("establish")
  FORBID_COMP ("access_ident")
  FORBID_COMP ("rate_adapt")
  FORBID_COMP ("sig_access_prot")
  FORBID_COMP ("l1_ident")
  FORBID_COMP ("user_inf_l1_prot")
  FORBID_COMP ("sync_async")
  FORBID_COMP ("num_stop")
  FORBID_COMP ("negotiate")
  FORBID_COMP ("num_data")
  FORBID_COMP ("user_rate")
  FORBID_COMP ("intermed_rate")
  FORBID_COMP ("nic_tx")
  FORBID_COMP ("nic_rx")
  FORBID_COMP ("parity")
  FORBID_COMP ("conn_elem")
  FORBID_COMP ("modem_type")
  FORBID_COMP ("modem_type_2")
  FORBID_COMP ("fnur")
  FORBID_COMP ("acc")
  FORBID_COMP ("mTch")
  FORBID_COMP ("uimi")
  FORBID_COMP ("waiur")
  FORBID_COMP ("l2_ident")
```

```
FORBID_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_AUX_SPEECH_FR_HR)
  SET_COMP ("rad_chan_req", RCR_FULL_PREF)
  SET_COMP ("code", CS_Q931)
  SET_COMP ("trans_mode", TM_CIRCUIT)
  SET_COMP ("trans_cap", ITC_AUXILIARY_SPEECH)
  SKIP_COMP ("coding_bc3x1")
  SKIP_COMP ("ctm")
  SKIP_COMP ("speech_vers1")
  SKIP_COMP ("coding_bc3x2")
  SKIP_COMP ("speech_vers2")
  SKIP_COMP ("coding_bc3x3")
  SKIP_COMP ("speech_vers3")
  SKIP_COMP ("coding_bc3x4")
  SKIP_COMP ("speech_vers4")
  SKIP_COMP ("coding_bc3x5")
  SKIP_COMP ("speech_vers5")
  FORBID_COMP ("compress")
  FORBID_COMP ("structure")
  FORBID_COMP ("duplex")
  FORBID_COMP ("config")
  FORBID_COMP ("nirr")
  FORBID_COMP ("establish")
  FORBID_COMP ("access_ident")
  FORBID_COMP ("rate_adapt")
  FORBID_COMP ("sig_access_prot")
  FORBID_COMP ("l1_ident")
  FORBID_COMP ("user_inf_l1_prot")
  FORBID_COMP ("sync_async")
  FORBID_COMP ("num_stop")
  FORBID_COMP ("negotiate")
  FORBID_COMP ("num_data")
  FORBID_COMP ("user_rate")
  FORBID_COMP ("intermed_rate")
  FORBID_COMP ("nic_tx")
  FORBID_COMP ("nic_rx")
  FORBID_COMP ("parity")
  FORBID_COMP ("conn_elem")
  FORBID_COMP ("modem_type")
  FORBID_COMP ("modem_type_2")
  FORBID_COMP ("fnur")
  FORBID_COMP ("acc")
  FORBID_COMP ("mTch")
  FORBID_COMP ("uimi")
  FORBID_COMP ("waiur")
  FORBID_COMP ("l2_ident")
```

```
FORBID_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_SPEECH_FR_HR_EFR)
  SET_COMP ("rad_chan_req", RCR_FULL_PREF)
  SET_COMP ("code", CS_Q931)
  SET_COMP ("trans_mode", TM_CIRCUIT)
  SET_COMP ("trans_cap", ITC_SPEECH)
  SET_COMP ("coding_bc3x1", CODING_BC3X_SPEECH)
  SET_COMP ("ctm", CTM_NO)
  SET_COMP ("speech_vers1", SPEECH_VERS_EFR)
  SET_COMP ("coding_bc3x2", CODING_BC3X_SPEECH)
  SET_COMP ("speech_vers2", SPEECH_VERS_FR)
  SET_COMP ("coding_bc3x3", CODING_BC3X_SPEECH)
  SET_COMP ("speech_vers3", SPEECH_VERS_HR)
  SKIP_COMP ("coding_bc3x4")
  SKIP_COMP ("speech_vers4")
  SKIP_COMP ("coding_bc3x5")
  SKIP_COMP ("speech_vers5")
  FORBID_COMP ("compress")
  FORBID_COMP ("structure")
  FORBID_COMP ("duplex")
  FORBID_COMP ("config")
  FORBID_COMP ("nirr")
  FORBID_COMP ("establish")
  FORBID_COMP ("access_ident")
  FORBID_COMP ("rate_adapt")
  FORBID_COMP ("sig_access_prot")
  FORBID_COMP ("l1_ident")
  FORBID_COMP ("user_inf_l1_prot")
  FORBID_COMP ("sync_async")
  FORBID_COMP ("num_stop")
  FORBID_COMP ("negotiate")
  FORBID_COMP ("num_data")
  FORBID_COMP ("user_rate")
  FORBID_COMP ("intermed_rate")
  FORBID_COMP ("nic_tx")
  FORBID_COMP ("nic_rx")
  FORBID_COMP ("parity")
  FORBID_COMP ("conn_elem")
  FORBID_COMP ("modem_type")
  FORBID_COMP ("modem_type_2")
  FORBID_COMP ("fnur")
  FORBID_COMP ("acc")
  FORBID_COMP ("mTch")
  FORBID_COMP ("uimi")
  FORBID_COMP ("waiur")
  FORBID_COMP ("l2_ident")
```

```
FORBID_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_SPEECH_FR_EFR)
  SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
  SET_COMP ("code",             CS_Q931)
  SET_COMP ("trans_mode",       TM_CIRCUIT)
  SET_COMP ("trans_cap",        ITC_SPEECH)
  SET_COMP ("coding_bc3x1",     CODING_BC3X_SPEECH)
  SET_COMP ("ctm",             CTM_NO)
  SET_COMP ("speech_vers1",     SPEECH_VERS_EFR)
  SET_COMP ("coding_bc3x2",     CODING_BC3X_SPEECH)
  SET_COMP ("speech_vers2",     SPEECH_VERS_FR)
  SKIP_COMP ("coding_bc3x3")
  SKIP_COMP ("speech_vers3")
  SKIP_COMP ("coding_bc3x4")
  SKIP_COMP ("speech_vers4")
  SKIP_COMP ("coding_bc3x5")
  SKIP_COMP ("speech_vers5")
  FORBID_COMP ("compress")
  FORBID_COMP ("structure")
  FORBID_COMP ("duplex")
  FORBID_COMP ("config")
  FORBID_COMP ("nirr")
  FORBID_COMP ("establish")
  FORBID_COMP ("access_ident")
  FORBID_COMP ("rate_adapt")
  FORBID_COMP ("sig_access_prot")
  FORBID_COMP ("l1_ident")
  FORBID_COMP ("user_inf_l1_prot")
  FORBID_COMP ("sync_async")
  FORBID_COMP ("num_stop")
  FORBID_COMP ("negotiate")
  FORBID_COMP ("num_data")
  FORBID_COMP ("user_rate")
  FORBID_COMP ("intermed_rate")
  FORBID_COMP ("nic_tx")
  FORBID_COMP ("nic_rx")
  FORBID_COMP ("parity")
  FORBID_COMP ("conn_elem")
  FORBID_COMP ("modem_type")
  FORBID_COMP ("modem_type_2")
  FORBID_COMP ("fnur")
  FORBID_COMP ("acc")
  FORBID_COMP ("mTch")
  FORBID_COMP ("uimi")
  FORBID_COMP ("waiur")
  FORBID_COMP ("l2_ident")
```

```

FORBID_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_FAX_T_2400)
  SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
  SET_COMP ("code",             CS_Q931)
  SET_COMP ("trans_mode",       TM_CIRCUIT)
  SET_COMP ("trans_cap",        ITC_FAX_GROUP_3)
  FORBID_COMP ("coding_bc3x1")
  FORBID_COMP ("ctm")
  FORBID_COMP ("speech_vers1")
  FORBID_COMP ("coding_bc3x2")
  FORBID_COMP ("speech_vers2")
  FORBID_COMP ("coding_bc3x3")
  FORBID_COMP ("speech_vers3")
  FORBID_COMP ("coding_bc3x4")
  FORBID_COMP ("speech_vers4")
  FORBID_COMP ("coding_bc3x5")
  FORBID_COMP ("speech_vers5")
  SET_COMP ("compress",         COMP_NO)
  SET_COMP ("structure",        STRC_UNSTRUCTURED)
  SET_COMP ("duplex",           DUPLEX_FULL)
  SET_COMP ("config",           CONF_POINT_TO_POINT)
  SET_COMP ("nirr",             NIRR_NO_MEANING)
  SET_COMP ("establish",        ESTAB_DEMAND)
  SET_COMP ("access_ident",     AI_OCT_ID)
  SET_COMP ("rate_adapt",       RA_NONE)
  SET_COMP ("sig_access_prot",  SIAP_I440)
  SET_COMP ("l1_ident",         L1_OCT_ID)
  SET_COMP ("user_inf_l1_prot", L1_DEFAULT)
  SET_COMP ("sync_async",       SYNCHRONOUS)
  SET_COMP ("num_stop",         NSTOP_1)
  SET_COMP ("negotiate",        NEGOTIATE_NO)
  SET_COMP ("num_data",         NDATA_8)
  SET_COMP ("user_rate",        UR_2_4_KBIT)
  SET_COMP ("intermed_rate",    IR_8_KBIT)
  SET_COMP ("nic_tx",           NIC_TX_NO)
  SET_COMP ("nic_rx",           NIC_RX_NO)
  SET_COMP ("parity",           PARITY_NONE)
  SET_COMP ("conn_elem",        CE_TRANSPA)
  SET_COMP ("modem_type",       MT_NONE)
  SKIP_COMP ("modem_type_2")
  SKIP_COMP ("fnur")
  SKIP_COMP ("acc")
  SKIP_COMP ("mTch")
  SKIP_COMP ("uimi")
  SKIP_COMP ("waiur")
  SKIP_COMP ("l2_ident")

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```

        SKIP_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_FAX_T_4800)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",             CS_Q931)
    SET_COMP ("trans_mode",       TM_CIRCUIT)
    SET_COMP ("trans_cap",        ITC_FAX_GROUP_3)
    FORBID_COMP ("coding_bc3x1")
    FORBID_COMP ("ctm")
    FORBID_COMP ("speech_vers1")
    FORBID_COMP ("coding_bc3x2")
    FORBID_COMP ("speech_vers2")
    FORBID_COMP ("coding_bc3x3")
    FORBID_COMP ("speech_vers3")
    FORBID_COMP ("coding_bc3x4")
    FORBID_COMP ("speech_vers4")
    FORBID_COMP ("coding_bc3x5")
    FORBID_COMP ("speech_vers5")
    SET_COMP ("compress",         COMP_NO)
    SET_COMP ("structure",        STRC_UNSTRUCTURED)
    SET_COMP ("duplex",           DUPLEX_FULL)
    SET_COMP ("config",          CONF_POINT_TO_POINT)
    SET_COMP ("nirr",             NIRR_NO_MEANING)
    SET_COMP ("establish",        ESTAB_DEMAND)
    SET_COMP ("access_ident",     AI_OCT_ID)
    SET_COMP ("rate_adapt",       RA_NONE)
    SET_COMP ("sig_access_prot",  SIAP_I440)
    SET_COMP ("l1_ident",         L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot",  L1_DEFAULT)
    SET_COMP ("sync_async",       SYNCHRONOUS)
    SET_COMP ("num_stop",         NSTOP_1)
    SET_COMP ("negotiate",        NEGOTIATE_NO)
    SET_COMP ("num_data",         NDATA_8)
    SET_COMP ("user_rate",        UR_4_8_KBIT)
    SET_COMP ("intermed_rate",    IR_8_KBIT)
    SET_COMP ("nic_tx",           NIC_TX_NO)
    SET_COMP ("nic_rx",           NIC_RX_NO)
    SET_COMP ("parity",          PARITY_NONE)
    SET_COMP ("conn_elem",        CE_TRANSPA)
    SET_COMP ("modem_type",       MT_NONE)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SKIP_COMP ("l2_ident")

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```

        SKIP_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_FAX_T_9600)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",             CS_Q931)
    SET_COMP ("trans_mode",       TM_CIRCUIT)
    SET_COMP ("trans_cap",        ITC_FAX_GROUP_3)
    FORBID_COMP ("coding_bc3x1")
    FORBID_COMP ("ctm")
    FORBID_COMP ("speech_vers1")
    FORBID_COMP ("coding_bc3x2")
    FORBID_COMP ("speech_vers2")
    FORBID_COMP ("coding_bc3x3")
    FORBID_COMP ("speech_vers3")
    FORBID_COMP ("coding_bc3x4")
    FORBID_COMP ("speech_vers4")
    FORBID_COMP ("coding_bc3x5")
    FORBID_COMP ("speech_vers5")
    SET_COMP ("compress",         COMP_NO)
    SET_COMP ("structure",        STRC_UNSTRUCTURED)
    SET_COMP ("duplex",           DUPLEX_FULL)
    SET_COMP ("config",          CONF_POINT_TO_POINT)
    SET_COMP ("nirr",            NIRR_NO_MEANING)
    SET_COMP ("establish",       ESTAB_DEMAND)
    SET_COMP ("access_ident",     AI_OCT_ID)
    SET_COMP ("rate_adapt",       RA_NONE)
    SET_COMP ("sig_access_prot",  SIAP_I440)
    SET_COMP ("l1_ident",         L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot", L1_DEFAULT)
    SET_COMP ("sync_async",       SYNCHRONOUS)
    SET_COMP ("num_stop",         NSTOP_1)
    SET_COMP ("negotiate",        NEGOTIATE_NO)
    SET_COMP ("num_data",         NDATA_8)
    SET_COMP ("user_rate",        UR_9_6_KBIT)
    SET_COMP ("intermed_rate",    IR_16_KBIT)
    SET_COMP ("nic_tx",           NIC_TX_NO)
    SET_COMP ("nic_rx",           NIC_RX_NO)
    SET_COMP ("parity",          PARITY_NONE)
    SET_COMP ("conn_elem",        CE_TRANSPA)
    SET_COMP ("modem_type",       MT_NONE)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SKIP_COMP ("l2_ident")

```

```

        SKIP_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS21_T_300)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",             CS_Q931)
    SET_COMP ("trans_mode",       TM_CIRCUIT)
    SET_COMP ("trans_cap",        ITC_AUDIO)
    FORBID_COMP ("coding_bc3x1")
    FORBID_COMP ("ctm")
    FORBID_COMP ("speech_vers1")
    FORBID_COMP ("coding_bc3x2")
    FORBID_COMP ("speech_vers2")
    FORBID_COMP ("coding_bc3x3")
    FORBID_COMP ("speech_vers3")
    FORBID_COMP ("coding_bc3x4")
    FORBID_COMP ("speech_vers4")
    FORBID_COMP ("coding_bc3x5")
    FORBID_COMP ("speech_vers5")
    SET_COMP ("compress",         COMP_NO)
    SET_COMP ("structure",        STRC_UNSTRUCTURED)
    SET_COMP ("duplex",           DUPLEX_FULL)
    SET_COMP ("config",          CONF_POINT_TO_POINT)
    SET_COMP ("nirr",            NIRR_NO_MEANING)
    SET_COMP ("establish",       ESTAB_DEMAND)
    SET_COMP ("access_ident",    AI_OCT_ID)
    SET_COMP ("rate_adapt",      RA_NONE)
    SET_COMP ("sig_access_prot",  SIAP_I440)
    SET_COMP ("l1_ident",        L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot", L1_DEFAULT)
    SET_COMP ("sync_async",      ASYNCHRONOUS)
    SET_COMP ("num_stop",        NSTOP_2)
    SET_COMP ("negotiate",       NEGOTIATE_NO)
    SET_COMP ("num_data",        NDATA_8)
    SET_COMP ("user_rate",       UR_0_3_KBIT)
    SET_COMP ("intermed_rate",   IR_8_KBIT)
    SET_COMP ("nic_tx",          NIC_TX_NO)
    SET_COMP ("nic_rx",          NIC_RX_NO)
    SET_COMP ("parity",          PARITY_NONE)
    SET_COMP ("conn_elem",       CE_TRANSPA)
    SET_COMP ("modem_type",      MT_V21)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SKIP_COMP ("l2_ident")

```

```

        SKIP_COMP ("user_inf_l2_prot")
ENDSTRUCT

/* note that all bearer caps for 14.4kbps use UR_9_6_KBIT over the air interface */
BEGIN_MSTRUCT ("bearer_cap", BC_BS20_T_14400)
    SET_COMP ("rad_chan_req",      RCR_FULL_PREF)
    SET_COMP ("code",             CS_Q931)
    SET_COMP ("trans_mode",       TM_CIRCUIT)
    SET_COMP ("trans_cap",        ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",         COMP_NO)
    SET_COMP ("structure",        STRC_UNSTRUCTURED)
    SET_COMP ("duplex",           DUPLEX_FULL)
    SET_COMP ("config",           CONF_POINT_TO_POINT)
    SET_COMP ("nirr",             NIRR_NO_MEANING)
    SET_COMP ("establish",        ESTAB_DEMAND)
    SET_COMP ("access_ident",     AI_OCT_ID)
    SET_COMP ("rate_adapt",       RA_NONE)
    SET_COMP ("sig_access_prot",  SIAP_I440)
    SET_COMP ("l1_ident",         L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot",  L1_DEFAULT)
    SET_COMP ("sync_async",       ASYNCHRONOUS)
    SET_COMP ("num_stop",         NSTOP_2)
    SET_COMP ("negotiate",        NEGOTIATE_NO)
    SET_COMP ("num_data",         NDATA_8)
    SET_COMP ("user_rate",        UR_9_6_KBIT)
    SET_COMP ("intermed_rate",    IR_16_KBIT)
    SET_COMP ("nic_tx",           NIC_TX_NO)
    SET_COMP ("nic_rx",           NIC_RX_NO)
    SET_COMP ("parity",           PARITY_NONE)
    SET_COMP ("conn_elem",        CE_TRANSPA)
    SET_COMP ("modem_type",       MT_V32)
    SET_COMP ("modem_type_2",     OTHER_MODEM_TYPE_V34)
    SET_COMP ("fnur",             FNUR_14400)
    SET_COMP ("acc",              ACC_ALL)
    SET_COMP ("mTch",             MAX_TCH_1)
    SET_COMP ("uimi",             UIMI_NOT_ALLOWED)
    SET_COMP ("waiur",            WAIUR_14400)
    SKIP_COMP ("l2_ident")

```

```

        SKIP_COMP ( "user_inf_l2_prot" )
ENDSTRUCT
BEGIN_MSTRUCT ( "bearer_cap", BC_BS20_T_14400_1 )
    SET_COMP ( "rad_chan_req",      RCR_FULL_PREF )
    SET_COMP ( "code",              CS_Q931 )
    SET_COMP ( "trans_mode",        TM_CIRCUIT )
    SET_COMP ( "trans_cap",         ITC_AUDIO )
    SKIP_COMP ( "coding_bc3x1" )
    SKIP_COMP ( "ctm" )
    SKIP_COMP ( "speech_vers1" )
    SKIP_COMP ( "coding_bc3x2" )
    SKIP_COMP ( "speech_vers2" )
    SKIP_COMP ( "coding_bc3x3" )
    SKIP_COMP ( "speech_vers3" )
    SKIP_COMP ( "coding_bc3x4" )
    SKIP_COMP ( "speech_vers4" )
    SKIP_COMP ( "coding_bc3x5" )
    SKIP_COMP ( "speech_vers5" )
    SET_COMP ( "compress",          COMP_NO )
    SET_COMP ( "structure",         STRC_UNSTRUCTURED )
    SET_COMP ( "duplex",            DUPLEX_FULL )
    SET_COMP ( "config",            CONF_POINT_TO_POINT )
    SET_COMP ( "nirr",              NIRR_NO_MEANING )
    SET_COMP ( "establish",         ESTAB_DEMAND )
    SET_COMP ( "access_ident",      AI_OCT_ID )
    SET_COMP ( "rate_adapt",        RA_NONE )
    SET_COMP ( "sig_access_prot",   SIAP_I440 )
    SET_COMP ( "l1_ident",          L1_OCT_ID )
    SET_COMP ( "user_inf_l1_prot",   L1_DEFAULT )
    SET_COMP ( "sync_async",        ASYNCHRONOUS )
    SET_COMP ( "num_stop",          NSTOP_2 )
    SET_COMP ( "negotiate",         NEGOTIATE_NO )
    SET_COMP ( "num_data",          NDATA_8 )
    SET_COMP ( "user_rate",         UR_9_6_KBIT )
    SET_COMP ( "intermed_rate",     IR_16_KBIT )
    SET_COMP ( "nic_tx",            NIC_TX_NO )
    SET_COMP ( "nic_rx",            NIC_RX_NO )
    SET_COMP ( "parity",            PARITY_NONE )
    SET_COMP ( "conn_elem",         CE_TRANSPA )
    SET_COMP ( "modem_type",        MT_AUTO )
    SET_COMP ( "modem_type_2",     OTHER_MODEM_TYPE_NONE )
    SET_COMP ( "fnur",              FNUR_14400 )
    SET_COMP ( "acc",               ACC_ALL )
    SET_COMP ( "mTch",              MAX_TCH_1 )
    SKIP_COMP ( "uimi" )
    SKIP_COMP ( "waiur" )
    SKIP_COMP ( "l2_ident" )

```

```

        SKIP_COMP ( "user_inf_l2_prot" )
ENDSTRUCT
BEGIN_MSTRUCT ( "bearer_cap", BC_BS20_T_14400_2 )
    SET_COMP ( "rad_chan_req",      RCR_FULL_PREF )
    SET_COMP ( "code",              CS_Q931 )
    SET_COMP ( "trans_mode",        TM_CIRCUIT )
    SET_COMP ( "trans_cap",         ITC_AUDIO )
    SKIP_COMP ( "coding_bc3x1" )
    SKIP_COMP ( "ctm" )
    SKIP_COMP ( "speech_vers1" )
    SKIP_COMP ( "coding_bc3x2" )
    SKIP_COMP ( "speech_vers2" )
    SKIP_COMP ( "coding_bc3x3" )
    SKIP_COMP ( "speech_vers3" )
    SKIP_COMP ( "coding_bc3x4" )
    SKIP_COMP ( "speech_vers4" )
    SKIP_COMP ( "coding_bc3x5" )
    SKIP_COMP ( "speech_vers5" )
    SET_COMP ( "compress",          COMP_NO )
    SET_COMP ( "structure",         STRC_UNSTRUCTURED )
    SET_COMP ( "duplex",            DUPLEX_FULL )
    SET_COMP ( "config",            CONF_POINT_TO_POINT )
    SET_COMP ( "nirr",              NIRR_NO_MEANING )
    SET_COMP ( "establish",         ESTAB_DEMAND )
    SET_COMP ( "access_ident",      AI_OCT_ID )
    SET_COMP ( "rate_adapt",        RA_NONE )
    SET_COMP ( "sig_access_prot",   SIAP_I440 )
    SET_COMP ( "l1_ident",          L1_OCT_ID )
    SET_COMP ( "user_inf_l1_prot",  L1_DEFAULT )
    SET_COMP ( "sync_async",        ASYNCHRONOUS )
    SET_COMP ( "num_stop",          NSTOP_2 )
    SET_COMP ( "negotiate",         NEGOTIATE_NO )
    SET_COMP ( "num_data",          NDATA_8 )
    SET_COMP ( "user_rate",         UR_9_6_KBIT )
    SET_COMP ( "intermed_rate",     IR_16_KBIT )
    SET_COMP ( "nic_tx",            NIC_TX_NO )
    SET_COMP ( "nic_rx",            NIC_RX_NO )
    SET_COMP ( "parity",            PARITY_NONE )
    SET_COMP ( "conn_elem",         CE_TRANSPA )
    SET_COMP ( "modem_type",        MT_V34 )
    SET_COMP ( "modem_type_2",     OTHER_MODEM_TYPE_V34 )
    SET_COMP ( "fnur",              FNUR_14400 )
    SET_COMP ( "acc",               ACC_ALL )
    SET_COMP ( "mTch",              MAX_TCH_1 )
    SET_COMP ( "uimi",              UIMI_NOT_ALLOWED )
    SET_COMP ( "waiur",             WAIUR_14400 )
    SKIP_COMP ( "l2_ident" )

```

```

        SKIP_COMP ( "user_inf_l2_prot" )
ENDSTRUCT
BEGIN_MSTRUCT ( "bearer_cap", BC_BS20_T_14400_3 )
    SET_COMP ( "rad_chan_req",      RCR_FULL_PREF )
    SET_COMP ( "code",              CS_Q931 )
    SET_COMP ( "trans_mode",        TM_CIRCUIT )
    SET_COMP ( "trans_cap",         ITC_AUDIO )
    SKIP_COMP ( "coding_bc3x1" )
    SKIP_COMP ( "ctm" )
    SKIP_COMP ( "speech_vers1" )
    SKIP_COMP ( "coding_bc3x2" )
    SKIP_COMP ( "speech_vers2" )
    SKIP_COMP ( "coding_bc3x3" )
    SKIP_COMP ( "speech_vers3" )
    SKIP_COMP ( "coding_bc3x4" )
    SKIP_COMP ( "speech_vers4" )
    SKIP_COMP ( "coding_bc3x5" )
    SKIP_COMP ( "speech_vers5" )
    SET_COMP ( "compress",          COMP_NO )
    SET_COMP ( "structure",         STRC_UNSTRUCTURED )
    SET_COMP ( "duplex",            DUPLEX_FULL )
    SET_COMP ( "config",            CONF_POINT_TO_POINT )
    SET_COMP ( "nirr",              NIRR_NO_MEANING )
    SET_COMP ( "establish",         ESTAB_DEMAND )
    SET_COMP ( "access_ident",      AI_OCT_ID )
    SET_COMP ( "rate_adapt",        RA_NONE )
    SET_COMP ( "sig_access_prot",   SIAP_I440 )
    SET_COMP ( "l1_ident",          L1_OCT_ID )
    SET_COMP ( "user_inf_l1_prot",  L1_DEFAULT )
    SET_COMP ( "sync_async",        ASYNCHRONOUS )
    SET_COMP ( "num_stop",          NSTOP_2 )
    SET_COMP ( "negotiate",         NEGOTIATE_NO )
    SET_COMP ( "num_data",          NDATA_8 )
    SET_COMP ( "user_rate",         UR_9_6_KBIT )
    SET_COMP ( "intermed_rate",     IR_16_KBIT )
    SET_COMP ( "nic_tx",            NIC_TX_NO )
    SET_COMP ( "nic_rx",            NIC_RX_NO )
    SET_COMP ( "parity",            PARITY_NONE )
    SET_COMP ( "conn_elem",         CE_TRANSPA )
    SET_COMP ( "modem_type",        MT_V32 )
    SKIP_COMP ( "modem_type_2" )
    SKIP_COMP ( "fnur" )
    SKIP_COMP ( "acc" )
    SKIP_COMP ( "mTch" )
    SKIP_COMP ( "uimi" )
    SKIP_COMP ( "waiur" )
    SKIP_COMP ( "l2_ident" )

```

```

        SKIP_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS22_T_1200)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",             CS_Q931)
    SET_COMP ("trans_mode",       TM_CIRCUIT)
    SET_COMP ("trans_cap",        ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",         COMP_NO)
    SET_COMP ("structure",        STRC_UNSTRUCTURED)
    SET_COMP ("duplex",           DUPLEX_FULL)
    SET_COMP ("config",           CONF_POINT_TO_POINT)
    SET_COMP ("nirr",             NIRR_NO_MEANING)
    SET_COMP ("establish",        ESTAB_DEMAND)
    SET_COMP ("access_ident",     AI_OCT_ID)
    SET_COMP ("rate_adapt",       RA_NONE)
    SET_COMP ("sig_access_prot",  SIAP_I440)
    SET_COMP ("l1_ident",         L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot", L1_DEFAULT)
    SET_COMP ("sync_async",       ASYNCHRONOUS)
    SET_COMP ("num_stop",         NSTOP_2)
    SET_COMP ("negotiate",        NEGOTIATE_NO)
    SET_COMP ("num_data",         NDATA_8)
    SET_COMP ("user_rate",        UR_1_2_KBIT)
    SET_COMP ("intermed_rate",    IR_8_KBIT)
    SET_COMP ("nic_tx",           NIC_TX_NO)
    SET_COMP ("nic_rx",           NIC_RX_NO)
    SET_COMP ("parity",           PARITY_NONE)
    SET_COMP ("conn_elem",        CE_TRANSPA)
    SET_COMP ("modem_type",       MT_V22)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SKIP_COMP ("l2_ident")

```

```

        SKIP_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS24_T_2400)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",              CS_Q931)
    SET_COMP ("trans_mode",        TM_CIRCUIT)
    SET_COMP ("trans_cap",         ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",          COMP_NO)
    SET_COMP ("structure",         STRC_UNSTRUCTURED)
    SET_COMP ("duplex",            DUPLEX_FULL)
    SET_COMP ("config",            CONF_POINT_TO_POINT)
    SET_COMP ("nirr",              NIRR_NO_MEANING)
    SET_COMP ("establish",         ESTAB_DEMAND)
    SET_COMP ("access_ident",      AI_OCT_ID)
    SET_COMP ("rate_adapt",        RA_NONE)
    SET_COMP ("sig_access_prot",    SIAP_I440)
    SET_COMP ("l1_ident",          L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot",   L1_DEFAULT)
    SET_COMP ("sync_async",        ASYNCHRONOUS)
    SET_COMP ("num_stop",          NSTOP_2)
    SET_COMP ("negotiate",         NEGOTIATE_NO)
    SET_COMP ("num_data",          NDATA_8)
    SET_COMP ("user_rate",         UR_2_4_KBIT)
    SET_COMP ("intermed_rate",     IR_8_KBIT)
    SET_COMP ("nic_tx",            NIC_TX_NO)
    SET_COMP ("nic_rx",            NIC_RX_NO)
    SET_COMP ("parity",            PARITY_NONE)
    SET_COMP ("conn_elem",         CE_TRANSPA)
    SET_COMP ("modem_type",        MT_V22BIS)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SKIP_COMP ("l2_ident")

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```

        SKIP_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS25_T_4800)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",             CS_Q931)
    SET_COMP ("trans_mode",       TM_CIRCUIT)
    SET_COMP ("trans_cap",        ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",         COMP_NO)
    SET_COMP ("structure",        STRC_UNSTRUCTURED)
    SET_COMP ("duplex",           DUPLEX_FULL)
    SET_COMP ("config",           CONF_POINT_TO_POINT)
    SET_COMP ("nirr",             NIRR_NO_MEANING)
    SET_COMP ("establish",        ESTAB_DEMAND)
    SET_COMP ("access_ident",     AI_OCT_ID)
    SET_COMP ("rate_adapt",       RA_NONE)
    SET_COMP ("sig_access_prot",  SIAP_I440)
    SET_COMP ("l1_ident",         L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot", L1_DEFAULT)
    SET_COMP ("sync_async",       ASYNCHRONOUS)
    SET_COMP ("num_stop",         NSTOP_2)
    SET_COMP ("negotiate",        NEGOTIATE_NO)
    SET_COMP ("num_data",         NDATA_8)
    SET_COMP ("user_rate",        UR_4_8_KBIT)
    SET_COMP ("intermed_rate",    IR_8_KBIT)
    SET_COMP ("nic_tx",           NIC_TX_NO)
    SET_COMP ("nic_rx",           NIC_RX_NO)
    SET_COMP ("parity",           PARITY_NONE)
    SET_COMP ("conn_elem",        CE_TRANSPA)
    SET_COMP ("modem_type",       MT_V32)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SKIP_COMP ("l2_ident")

```

```

        SKIP_COMP ( "user_inf_l2_prot" )
ENDSTRUCT
BEGIN_MSTRUCT ( "bearer_cap", BC_BS26_T_9600 )
    SET_COMP ( "rad_chan_req",      RCR_FULL_ONLY )
    SET_COMP ( "code",             CS_Q931 )
    SET_COMP ( "trans_mode",       TM_CIRCUIT )
    SET_COMP ( "trans_cap",        ITC_AUDIO )
    SKIP_COMP ( "coding_bc3x1" )
    SKIP_COMP ( "ctm" )
    SKIP_COMP ( "speech_vers1" )
    SKIP_COMP ( "coding_bc3x2" )
    SKIP_COMP ( "speech_vers2" )
    SKIP_COMP ( "coding_bc3x3" )
    SKIP_COMP ( "speech_vers3" )
    SKIP_COMP ( "coding_bc3x4" )
    SKIP_COMP ( "speech_vers4" )
    SKIP_COMP ( "coding_bc3x5" )
    SKIP_COMP ( "speech_vers5" )
    SET_COMP ( "compress",         COMP_NO )
    SET_COMP ( "structure",        STRC_UNSTRUCTURED )
    SET_COMP ( "duplex",           DUPLEX_FULL )
    SET_COMP ( "config",           CONF_POINT_TO_POINT )
    SET_COMP ( "nirr",             NIRR_NO_MEANING )
    SET_COMP ( "establish",        ESTAB_DEMAND )
    SET_COMP ( "access_ident",     AI_OCT_ID )
    SET_COMP ( "rate_adapt",       RA_NONE )
    SET_COMP ( "sig_access_prot",   SIAP_I440 )
    SET_COMP ( "l1_ident",         L1_OCT_ID )
    SET_COMP ( "user_inf_l1_prot",  L1_DEFAULT )
    SET_COMP ( "sync_async",       ASYNCHRONOUS )
    SET_COMP ( "num_stop",         NSTOP_2 )
    SET_COMP ( "negotiate",        NEGOTIATE_NO )
    SET_COMP ( "num_data",         NDATA_8 )
    SET_COMP ( "user_rate",        UR_9_6_KBIT )
    SET_COMP ( "intermed_rate",    IR_16_KBIT )
    SET_COMP ( "nic_tx",           NIC_TX_NO )
    SET_COMP ( "nic_rx",           NIC_RX_NO )
    SET_COMP ( "parity",           PARITY_NONE )
    SET_COMP ( "conn_elem",        CE_TRANSPA )
    SET_COMP ( "modem_type",       MT_V32 )
    SKIP_COMP ( "modem_type_2" )
    SKIP_COMP ( "fnur" )
    SKIP_COMP ( "acc" )
    SKIP_COMP ( "mTch" )
    SKIP_COMP ( "uimi" )
    SKIP_COMP ( "waiur" )
    SKIP_COMP ( "l2_ident" )

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```

        SKIP_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS23_T)
    SET_COMP ("rad_chan_req",          RCR_FULL_ONLY)
    SET_COMP ("code",                  CS_Q931)
    SET_COMP ("trans_mode",            TM_CIRCUIT)
    SET_COMP ("trans_cap",             ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",              COMP_NO)
    SET_COMP ("structure",              STRC_UNSTRUCTURED)
    SET_COMP ("duplex",                 DUPLEX_FULL)
    SET_COMP ("config",                 CONF_POINT_TO_POINT)
    SET_COMP ("nirr",                   NIRR_NO_MEANING)
    SET_COMP ("establish",              ESTAB_DEMAND)
    SET_COMP ("access_ident",           AI_OCT_ID)
    SET_COMP ("rate_adapt",             RA_NONE)
    SET_COMP ("sig_access_prot",        SIAP_I440)
    SET_COMP ("l1_ident",               L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot",       L1_DEFAULT)
    SET_COMP ("sync_async",             ASYNCHRONOUS)
    SET_COMP ("num_stop",               NSTOP_2)
    SET_COMP ("negotiate",              NEGOTIATE_NO)
    SET_COMP ("num_data",               NDATA_8)
    SET_COMP ("user_rate",              UR_1_2_KBIT_V23)
    SET_COMP ("intermed_rate",          IR_8_KBIT)
    SET_COMP ("nic_tx",                 NIC_TX_NO)
    SET_COMP ("nic_rx",                 NIC_RX_NO)
    SET_COMP ("parity",                 PARITY_NONE)
    SET_COMP ("conn_elem",              CE_TRANSPA)
    SET_COMP ("modem_type",             MT_V23)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SKIP_COMP ("l2_ident")

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        SKIP_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS21_T_300_UDI)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",             CS_Q931)
    SET_COMP ("trans_mode",       TM_CIRCUIT)
    SET_COMP ("trans_cap",        ITC_DIGITAL_UNRESTRICTED)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",         COMP_NO)
    SET_COMP ("structure",        STRC_UNSTRUCTURED)
    SET_COMP ("duplex",           DUPLEX_FULL)
    SET_COMP ("config",          CONF_POINT_TO_POINT)
    SET_COMP ("nirr",            NIRR_NO_MEANING)
    SET_COMP ("establish",       ESTAB_DEMAND)
    SET_COMP ("access_ident",    AI_OCT_ID)
    SET_COMP ("rate_adapt",      RA_V110)
    SET_COMP ("sig_access_prot",  SIAP_I440)
    SET_COMP ("l1_ident",        L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot", L1_DEFAULT)
    SET_COMP ("sync_async",      ASYNCHRONOUS)
    SET_COMP ("num_stop",        NSTOP_2)
    SET_COMP ("negotiate",       NEGOTIATE_NO)
    SET_COMP ("num_data",        NDATA_8)
    SET_COMP ("user_rate",       UR_0_3_KBIT)
    SET_COMP ("intermed_rate",   IR_8_KBIT)
    SET_COMP ("nic_tx",          NIC_TX_NO)
    SET_COMP ("nic_rx",          NIC_RX_NO)
    SET_COMP ("parity",          PARITY_NONE)
    SET_COMP ("conn_elem",       CE_TRANSPA)
    SET_COMP ("modem_type",      MT_NONE)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SKIP_COMP ("l2_ident")

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        SKIP_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS22_T_1200_UDI)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",             CS_Q931)
    SET_COMP ("trans_mode",       TM_CIRCUIT)
    SET_COMP ("trans_cap",        ITC_DIGITAL_UNRESTRICTED)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",         COMP_NO)
    SET_COMP ("structure",        STRC_UNSTRUCTURED)
    SET_COMP ("duplex",           DUPLEX_FULL)
    SET_COMP ("config",           CONF_POINT_TO_POINT)
    SET_COMP ("nirr",             NIRR_NO_MEANING)
    SET_COMP ("establish",        ESTAB_DEMAND)
    SET_COMP ("access_ident",     AI_OCT_ID)
    SET_COMP ("rate_adapt",       RA_V110)
    SET_COMP ("sig_access_prot",   SIAP_I440)
    SET_COMP ("l1_ident",         L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot",  L1_DEFAULT)
    SET_COMP ("sync_async",       ASYNCHRONOUS)
    SET_COMP ("num_stop",         NSTOP_2)
    SET_COMP ("negotiate",        NEGOTIATE_NO)
    SET_COMP ("num_data",         NDATA_8)
    SET_COMP ("user_rate",        UR_1_2_KBIT)
    SET_COMP ("intermed_rate",    IR_8_KBIT)
    SET_COMP ("nic_tx",           NIC_TX_NO)
    SET_COMP ("nic_rx",           NIC_RX_NO)
    SET_COMP ("parity",           PARITY_NONE)
    SET_COMP ("conn_elem",        CE_TRANSPA)
    SET_COMP ("modem_type",       MT_NONE)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SKIP_COMP ("l2_ident")

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```

        SKIP_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS24_T_2400_UDI)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",             CS_Q931)
    SET_COMP ("trans_mode",       TM_CIRCUIT)
    SET_COMP ("trans_cap",        ITC_DIGITAL_UNRESTRICTED)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",         COMP_NO)
    SET_COMP ("structure",        STRC_UNSTRUCTURED)
    SET_COMP ("duplex",           DUPLEX_FULL)
    SET_COMP ("config",           CONF_POINT_TO_POINT)
    SET_COMP ("nirr",             NIRR_NO_MEANING)
    SET_COMP ("establish",        ESTAB_DEMAND)
    SET_COMP ("access_ident",     AI_OCT_ID)
    SET_COMP ("rate_adapt",       RA_V110)
    SET_COMP ("sig_access_prot",  SIAP_I440)
    SET_COMP ("l1_ident",         L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot",  L1_DEFAULT)
    SET_COMP ("sync_async",       ASYNCHRONOUS)
    SET_COMP ("num_stop",         NSTOP_2)
    SET_COMP ("negotiate",        NEGOTIATE_NO)
    SET_COMP ("num_data",         NDATA_8)
    SET_COMP ("user_rate",        UR_2_4_KBIT)
    SET_COMP ("intermed_rate",    IR_8_KBIT)
    SET_COMP ("nic_tx",           NIC_TX_NO)
    SET_COMP ("nic_rx",           NIC_RX_NO)
    SET_COMP ("parity",           PARITY_NONE)
    SET_COMP ("conn_elem",        CE_TRANSPA)
    SET_COMP ("modem_type",       MT_NONE)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SKIP_COMP ("l2_ident")

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        SKIP_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS25_T_4800_UDI)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",             CS_Q931)
    SET_COMP ("trans_mode",       TM_CIRCUIT)
    SET_COMP ("trans_cap",        ITC_DIGITAL_UNRESTRICTED)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",         COMP_NO)
    SET_COMP ("structure",        STRC_UNSTRUCTURED)
    SET_COMP ("duplex",           DUPLEX_FULL)
    SET_COMP ("config",           CONF_POINT_TO_POINT)
    SET_COMP ("nirr",             NIRR_NO_MEANING)
    SET_COMP ("establish",        ESTAB_DEMAND)
    SET_COMP ("access_ident",     AI_OCT_ID)
    SET_COMP ("rate_adapt",       RA_V110)
    SET_COMP ("sig_access_prot",  SIAP_I440)
    SET_COMP ("l1_ident",         L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot",  L1_DEFAULT)
    SET_COMP ("sync_async",       ASYNCHRONOUS)
    SET_COMP ("num_stop",         NSTOP_2)
    SET_COMP ("negotiate",        NEGOTIATE_NO)
    SET_COMP ("num_data",         NDATA_8)
    SET_COMP ("user_rate",        UR_4_8_KBIT)
    SET_COMP ("intermed_rate",    IR_8_KBIT)
    SET_COMP ("nic_tx",           NIC_TX_NO)
    SET_COMP ("nic_rx",           NIC_RX_NO)
    SET_COMP ("parity",           PARITY_NONE)
    SET_COMP ("conn_elem",        CE_TRANSPA)
    SET_COMP ("modem_type",       MT_NONE)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SKIP_COMP ("l2_ident")

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        SKIP_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS26_T_9600_UDI)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",             CS_Q931)
    SET_COMP ("trans_mode",       TM_CIRCUIT)
    SET_COMP ("trans_cap",        ITC_DIGITAL_UNRESTRICTED)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",         COMP_NO)
    SET_COMP ("structure",        STRC_UNSTRUCTURED)
    SET_COMP ("duplex",           DUPLEX_FULL)
    SET_COMP ("config",          CONF_POINT_TO_POINT)
    SET_COMP ("nirr",            NIRR_NO_MEANING)
    SET_COMP ("establish",       ESTAB_DEMAND)
    SET_COMP ("access_ident",    AI_OCT_ID)
    SET_COMP ("rate_adapt",      RA_V110)
    SET_COMP ("sig_access_prot",  SIAP_I440)
    SET_COMP ("l1_ident",        L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot", L1_DEFAULT)
    SET_COMP ("sync_async",      ASYNCHRONOUS)
    SET_COMP ("num_stop",        NSTOP_2)
    SET_COMP ("negotiate",       NEGOTIATE_NO)
    SET_COMP ("num_data",        NDATA_8)
    SET_COMP ("user_rate",       UR_9_6_KBIT)
    SET_COMP ("intermed_rate",   IR_16_KBIT)
    SET_COMP ("nic_tx",          NIC_TX_NO)
    SET_COMP ("nic_rx",          NIC_RX_NO)
    SET_COMP ("parity",          PARITY_NONE)
    SET_COMP ("conn_elem",       CE_TRANSPA)
    SET_COMP ("modem_type",      MT_NONE)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SKIP_COMP ("l2_ident")

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        SKIP_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS21_T_300_FR)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",             CS_Q931)
    SET_COMP ("trans_mode",       TM_CIRCUIT)
    SET_COMP ("trans_cap",        ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",         COMP_NO)
    SET_COMP ("structure",        STRC_UNSTRUCTURED)
    SET_COMP ("duplex",           DUPLEX_FULL)
    SET_COMP ("config",          CONF_POINT_TO_POINT)
    SET_COMP ("nirr",            NIRR_NO_MEANING)
    SET_COMP ("establish",       ESTAB_DEMAND)
    SET_COMP ("access_ident",     AI_OCT_ID)
    SET_COMP ("rate_adapt",       RA_NONE)
    SET_COMP ("sig_access_prot",  SIAP_I440)
    SET_COMP ("l1_ident",         L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot", L1_DEFAULT)
    SET_COMP ("sync_async",       ASYNCHRONOUS)
    SET_COMP ("num_stop",         NSTOP_2)
    SET_COMP ("negotiate",        NEGOTIATE_NO)
    SET_COMP ("num_data",         NDATA_8)
    SET_COMP ("user_rate",        UR_0_3_KBIT)
    SET_COMP ("intermed_rate",    IR_8_KBIT)
    SET_COMP ("nic_tx",           NIC_TX_NO)
    SET_COMP ("nic_rx",           NIC_RX_NO)
    SET_COMP ("parity",          PARITY_NONE)
    SET_COMP ("conn_elem",       CE_TRANSPA)
    SET_COMP ("modem_type",      MT_V21)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SKIP_COMP ("l2_ident")

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        SKIP_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS21_300_BTP)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",             CS_Q931)
    SET_COMP ("trans_mode",       TM_CIRCUIT)
    SET_COMP ("trans_cap",        ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",         COMP_NO)
    SET_COMP ("structure",        STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",           DUPLEX_FULL)
    SET_COMP ("config",          CONF_POINT_TO_POINT)
    SET_COMP ("nirr",            NIRR_NO_MEANING)
    SET_COMP ("establish",       ESTAB_DEMAND)
    SET_COMP ("access_ident",     AI_OCT_ID)
    SET_COMP ("rate_adapt",       RA_NONE)
    SET_COMP ("sig_access_prot",  SIAP_I440)
    SET_COMP ("l1_ident",        L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot", L1_DEFAULT)
    SET_COMP ("sync_async",       ASYNCHRONOUS)
    SET_COMP ("num_stop",         NSTOP_2)
    SET_COMP ("negotiate",       NEGOTIATE_NO)
    SET_COMP ("num_data",        NDATA_8)
    SET_COMP ("user_rate",        UR_0_3_KBIT)
    SET_COMP ("intermed_rate",    IR_16_KBIT)
    SET_COMP ("nic_tx",          NIC_TX_NO)
    SET_COMP ("nic_rx",          NIC_RX_NO)
    SET_COMP ("parity",          PARITY_NONE)
    SET_COMP ("conn_elem",       CE_TRANSPA_PREF)
    SET_COMP ("modem_type",      MT_V21)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SKIP_COMP ("l2_ident")

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```

        SKIP_COMP ( "user_inf_l2_prot" )
ENDSTRUCT
BEGIN_MSTRUCT ( "bearer_cap", BC_BS20_14400_BTP )
    SET_COMP ( "rad_chan_req",      RCR_FULL_PREF )
    SET_COMP ( "code",              CS_Q931 )
    SET_COMP ( "trans_mode",        TM_CIRCUIT )
    SET_COMP ( "trans_cap",         ITC_AUDIO )
    SKIP_COMP ( "coding_bc3x1" )
    SKIP_COMP ( "ctm" )
    SKIP_COMP ( "speech_vers1" )
    SKIP_COMP ( "coding_bc3x2" )
    SKIP_COMP ( "speech_vers2" )
    SKIP_COMP ( "coding_bc3x3" )
    SKIP_COMP ( "speech_vers3" )
    SKIP_COMP ( "coding_bc3x4" )
    SKIP_COMP ( "speech_vers4" )
    SKIP_COMP ( "coding_bc3x5" )
    SKIP_COMP ( "speech_vers5" )
    SET_COMP ( "compress",          COMP_NO )
    SET_COMP ( "structure",         STRC_SERV_DATA_INTEG )
    SET_COMP ( "duplex",            DUPLEX_FULL )
    SET_COMP ( "config",            CONF_POINT_TO_POINT )
    SET_COMP ( "nirr",              NIRR_NO_MEANING )
    SET_COMP ( "establish",         ESTAB_DEMAND )
    SET_COMP ( "access_ident",      AI_OCT_ID )
    SET_COMP ( "rate_adapt",        RA_NONE )
    SET_COMP ( "sig_access_prot",   SIAP_I440 )
    SET_COMP ( "l1_ident",          L1_OCT_ID )
    SET_COMP ( "user_inf_l1_prot",  L1_DEFAULT )
    SET_COMP ( "sync_async",        ASYNCHRONOUS )
    SET_COMP ( "num_stop",          NSTOP_2 )
    SET_COMP ( "negotiate",         NEGOTIATE_NO )
    SET_COMP ( "num_data",          NDATA_8 )
    SET_COMP ( "user_rate",         UR_9_6_KBIT )
    SET_COMP ( "intermed_rate",     IR_16_KBIT )
    SET_COMP ( "nic_tx",            NIC_TX_NO )
    SET_COMP ( "nic_rx",            NIC_RX_NO )
    SET_COMP ( "parity",            PARITY_NONE )
    SET_COMP ( "conn_elem",         CE_TRANSPA_PREF )
    SET_COMP ( "modem_type",        MT_AUTO )
    SET_COMP ( "modem_type_2",     OTHER_MODEM_TYPE_NONE )
    SET_COMP ( "fnur",              FNUR_14400 )
    SET_COMP ( "acc",               ACC_EMPTY )
    SET_COMP ( "mTch",              MAX_TCH_1 )
    SET_COMP ( "uimi",              UIMI_NOT_ALLOWED )
    SET_COMP ( "waiur",             WAIUR_NOT_APPLICABLE )
    SKIP_COMP ( "l2_ident" )

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        SKIP_COMP ( "user_inf_l2_prot" )
ENDSTRUCT
BEGIN_MSTRUCT ( "bearer_cap", BC_BS20_14400_BTP_1 )
    SET_COMP ( "rad_chan_req",      RCR_FULL_PREF )
    SET_COMP ( "code",              CS_Q931 )
    SET_COMP ( "trans_mode",        TM_CIRCUIT )
    SET_COMP ( "trans_cap",         ITC_AUDIO )
    SKIP_COMP ( "coding_bc3x1" )
    SKIP_COMP ( "ctm" )
    SKIP_COMP ( "speech_vers1" )
    SKIP_COMP ( "coding_bc3x2" )
    SKIP_COMP ( "speech_vers2" )
    SKIP_COMP ( "coding_bc3x3" )
    SKIP_COMP ( "speech_vers3" )
    SKIP_COMP ( "coding_bc3x4" )
    SKIP_COMP ( "speech_vers4" )
    SKIP_COMP ( "coding_bc3x5" )
    SKIP_COMP ( "speech_vers5" )
    SET_COMP ( "compress",          COMP_NO )
    SET_COMP ( "structure",         STRC_SERV_DATA_INTEG )
    SET_COMP ( "duplex",            DUPLEX_FULL )
    SET_COMP ( "config",           CONF_POINT_TO_POINT )
    SET_COMP ( "nirr",             NIRR_NO_MEANING )
    SET_COMP ( "establish",        ESTAB_DEMAND )
    SET_COMP ( "access_ident",     AI_OCT_ID )
    SET_COMP ( "rate_adapt",       RA_NONE )
    SET_COMP ( "sig_access_prot",  SIAP_I440 )
    SET_COMP ( "l1_ident",         L1_OCT_ID )
    SET_COMP ( "user_inf_l1_prot",  L1_DEFAULT )
    SET_COMP ( "sync_async",       ASYNCHRONOUS )
    SET_COMP ( "num_stop",         NSTOP_2 )
    SET_COMP ( "negotiate",        NEGOTIATE_NO )
    SET_COMP ( "num_data",         NDATA_8 )
    SET_COMP ( "user_rate",        UR_9_6_KBIT )
    SET_COMP ( "intermed_rate",    IR_16_KBIT )
    SET_COMP ( "nic_tx",           NIC_TX_NO )
    SET_COMP ( "nic_rx",           NIC_RX_NO )
    SET_COMP ( "parity",           PARITY_NONE )
    SET_COMP ( "conn_elem",        CE_TRANSPA_PREF )
    SET_COMP ( "modem_type",       MT_AUTO )
    SKIP_COMP ( "modem_type_2" )
    SET_COMP ( "fnur",             FNUR_14400 )
    SET_COMP ( "acc",              ACC_EMPTY )
    SET_COMP ( "mTch",             MAX_TCH_1 )
    SET_COMP ( "uimi",             UIMI_NOT_ALLOWED )
    SET_COMP ( "waiur",            WAIUR_NOT_APPLICABLE )
    SKIP_COMP ( "l2_ident" )

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```

        SKIP_COMP ( "user_inf_l2_prot" )
ENDSTRUCT
BEGIN_MSTRUCT ( "bearer_cap", BC_BS20_14400_BTP_2 )
    SET_COMP ( "rad_chan_req",      RCR_FULL_PREF )
    SET_COMP ( "code",              CS_Q931 )
    SET_COMP ( "trans_mode",        TM_CIRCUIT )
    SET_COMP ( "trans_cap",         ITC_AUDIO )
    SKIP_COMP ( "coding_bc3x1" )
    SKIP_COMP ( "ctm" )
    SKIP_COMP ( "speech_vers1" )
    SKIP_COMP ( "coding_bc3x2" )
    SKIP_COMP ( "speech_vers2" )
    SKIP_COMP ( "coding_bc3x3" )
    SKIP_COMP ( "speech_vers3" )
    SKIP_COMP ( "coding_bc3x4" )
    SKIP_COMP ( "speech_vers4" )
    SKIP_COMP ( "coding_bc3x5" )
    SKIP_COMP ( "speech_vers5" )
    SET_COMP ( "compress",          COMP_NO )
    SET_COMP ( "structure",         STRC_SERV_DATA_INTEG )
    SET_COMP ( "duplex",            DUPLEX_FULL )
    SET_COMP ( "config",            CONF_POINT_TO_POINT )
    SET_COMP ( "nirr",              NIRR_NO_MEANING )
    SET_COMP ( "establish",         ESTAB_DEMAND )
    SET_COMP ( "access_ident",      AI_OCT_ID )
    SET_COMP ( "rate_adapt",        RA_NONE )
    SET_COMP ( "sig_access_prot",   SIAP_I440 )
    SET_COMP ( "l1_ident",          L1_OCT_ID )
    SET_COMP ( "user_inf_l1_prot",  L1_DEFAULT )
    SET_COMP ( "sync_async",        ASYNCHRONOUS )
    SET_COMP ( "num_stop",          NSTOP_2 )
    SET_COMP ( "negotiate",         NEGOTIATE_NO )
    SET_COMP ( "num_data",          NDATA_8 )
    SET_COMP ( "user_rate",         UR_9_6_KBIT )
    SET_COMP ( "intermed_rate",     IR_16_KBIT )
    SET_COMP ( "nic_tx",            NIC_TX_NO )
    SET_COMP ( "nic_rx",            NIC_RX_NO )
    SET_COMP ( "parity",            PARITY_NONE )
    SET_COMP ( "conn_elem",         CE_TRANSPA_PREF )
    SET_COMP ( "modem_type",        MT_AUTO )
    SET_COMP ( "modem_type_2",     OTHER_MODEM_TYPE_NONE )
    SKIP_COMP ( "fnur" )
    SET_COMP ( "acc",               ACC_EMPTY )
    SET_COMP ( "mTch",              MAX_TCH_1 )
    SET_COMP ( "uimi",              UIMI_NOT_ALLOWED )
    SET_COMP ( "waiur",             WAIUR_NOT_APPLICABLE )
    SKIP_COMP ( "l2_ident" )

```

```

        SKIP_COMP ( "user_inf_l2_prot" )
ENDSTRUCT
BEGIN_MSTRUCT ( "bearer_cap", BC_BS20_14400_BTP_3 )
    SET_COMP ( "rad_chan_req",      RCR_FULL_PREF )
    SET_COMP ( "code",              CS_Q931 )
    SET_COMP ( "trans_mode",        TM_CIRCUIT )
    SET_COMP ( "trans_cap",         ITC_AUDIO )
    SKIP_COMP ( "coding_bc3x1" )
    SKIP_COMP ( "ctm" )
    SKIP_COMP ( "speech_vers1" )
    SKIP_COMP ( "coding_bc3x2" )
    SKIP_COMP ( "speech_vers2" )
    SKIP_COMP ( "coding_bc3x3" )
    SKIP_COMP ( "speech_vers3" )
    SKIP_COMP ( "coding_bc3x4" )
    SKIP_COMP ( "speech_vers4" )
    SKIP_COMP ( "coding_bc3x5" )
    SKIP_COMP ( "speech_vers5" )
    SET_COMP ( "compress",          COMP_NO )
    SET_COMP ( "structure",         STRC_SERV_DATA_INTEG )
    SET_COMP ( "duplex",            DUPLEX_FULL )
    SET_COMP ( "config",            CONF_POINT_TO_POINT )
    SET_COMP ( "nirr",              NIRR_NO_MEANING )
    SET_COMP ( "establish",         ESTAB_DEMAND )
    SET_COMP ( "access_ident",      AI_OCT_ID )
    SET_COMP ( "rate_adapt",        RA_NONE )
    SET_COMP ( "sig_access_prot",   SIAP_I440 )
    SET_COMP ( "l1_ident",          L1_OCT_ID )
    SET_COMP ( "user_inf_l1_prot",  L1_DEFAULT )
    SET_COMP ( "sync_async",        ASYNCHRONOUS )
    SET_COMP ( "num_stop",          NSTOP_2 )
    SET_COMP ( "negotiate",         NEGOTIATE_NO )
    SET_COMP ( "num_data",          NDATA_8 )
    SET_COMP ( "user_rate",         UR_9_6_KBIT )
    SET_COMP ( "intermed_rate",     IR_16_KBIT )
    SET_COMP ( "nic_tx",            NIC_TX_NO )
    SET_COMP ( "nic_rx",            NIC_RX_NO )
    SET_COMP ( "parity",            PARITY_NONE )
    SET_COMP ( "conn_elem",         CE_TRANSPA_PREF )
    SET_COMP ( "modem_type",        MT_AUTO )
    SKIP_COMP ( "modem_type_2" )
    SKIP_COMP ( "fnur" )
    SET_COMP ( "acc",               ACC_EMPTY )
    SET_COMP ( "mTch",              MAX_TCH_1 )
    SET_COMP ( "uimi",              UIMI_NOT_ALLOWED )
    SET_COMP ( "waiur",             WAIUR_NOT_APPLICABLE )
    SKIP_COMP ( "l2_ident" )

```

```

        SKIP_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS21_300_BNTP)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",              CS_Q931)
    SET_COMP ("trans_mode",        TM_CIRCUIT)
    SET_COMP ("trans_cap",         ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",          COMP_NO)
    SET_COMP ("structure",         STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",            DUPLEX_FULL)
    SET_COMP ("config",           CONF_POINT_TO_POINT)
    SET_COMP ("nirr",             NIRR_NO_MEANING)
    SET_COMP ("establish",        ESTAB_DEMAND)
    SET_COMP ("access_ident",     AI_OCT_ID)
    SET_COMP ("rate_adapt",       RA_NONE)
    SET_COMP ("sig_access_prot",  SIAP_I440)
    SET_COMP ("l1_ident",         L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot",  L1_DEFAULT)
    SET_COMP ("sync_async",       ASYNCHRONOUS)
    SET_COMP ("num_stop",         NSTOP_2)
    SET_COMP ("negotiate",        NEGOTIATE_NO)
    SET_COMP ("num_data",         NDATA_8)
    SET_COMP ("user_rate",        UR_0_3_KBIT)
    SET_COMP ("intermed_rate",    IR_16_KBIT)
    SET_COMP ("nic_tx",           NIC_TX_NO)
    SET_COMP ("nic_rx",           NIC_RX_NO)
    SET_COMP ("parity",           PARITY_NONE)
    SET_COMP ("conn_elem",        CE_RLP_PREF)
    SET_COMP ("modem_type",       MT_V21)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SET_COMP ("l2_ident",         L2_OCT_ID)

```

```

        SET_COMP ( "user_inf_l2_prot",      L2_COPFC )
ENDSTRUCT
BEGIN_MSTRUCT ( "bearer_cap", BC_BS20_14400_BNTP )
    SET_COMP ( "rad_chan_req",      RCR_FULL_PREF )
    SET_COMP ( "code",              CS_Q931 )
    SET_COMP ( "trans_mode",        TM_CIRCUIT )
    SET_COMP ( "trans_cap",         ITC_AUDIO )
    SKIP_COMP ( "coding_bc3x1" )
    SKIP_COMP ( "ctm" )
    SKIP_COMP ( "speech_vers1" )
    SKIP_COMP ( "coding_bc3x2" )
    SKIP_COMP ( "speech_vers2" )
    SKIP_COMP ( "coding_bc3x3" )
    SKIP_COMP ( "speech_vers3" )
    SKIP_COMP ( "coding_bc3x4" )
    SKIP_COMP ( "speech_vers4" )
    SKIP_COMP ( "coding_bc3x5" )
    SKIP_COMP ( "speech_vers5" )
    SET_COMP ( "compress",          COMP_NO )
    SET_COMP ( "structure",         STRC_SERV_DATA_INTEG )
    SET_COMP ( "duplex",            DUPLEX_FULL )
    SET_COMP ( "config",            CONF_POINT_TO_POINT )
    SET_COMP ( "nirr",              NIRR_NO_MEANING )
    SET_COMP ( "establish",         ESTAB_DEMAND )
    SET_COMP ( "access_ident",      AI_OCT_ID )
    SET_COMP ( "rate_adapt",        RA_NONE )
    SET_COMP ( "sig_access_prot",   SIAP_I440 )
    SET_COMP ( "l1_ident",          L1_OCT_ID )
    SET_COMP ( "user_inf_l1_prot",   L1_DEFAULT )
    SET_COMP ( "sync_async",        ASYNCHRONOUS )
    SET_COMP ( "num_stop",          NSTOP_2 )
    SET_COMP ( "negotiate",         NEGOTIATE_NO )
    SET_COMP ( "num_data",          NDATA_8 )
    SET_COMP ( "user_rate",         UR_9_6_KBIT )
    SET_COMP ( "intermed_rate",     IR_16_KBIT )
    SET_COMP ( "nic_tx",            NIC_TX_NO )
    SET_COMP ( "nic_rx",            NIC_RX_NO )
    SET_COMP ( "parity",            PARITY_NONE )
    SET_COMP ( "conn_elem",         CE_RLP_PREF )
    SET_COMP ( "modem_type",        MT_AUTO )
    SET_COMP ( "modem_type_2",     OTHER_MODEM_TYPE_NONE )
    SET_COMP ( "fnur",              FNUR_14400 )
    SET_COMP ( "acc",               ACC_EMPTY )
    SET_COMP ( "mTch",              MAX_TCH_1 )
    SET_COMP ( "uimi",              UIMI_NOT_ALLOWED )
    SET_COMP ( "waiur",             WAIUR_NOT_APPLICABLE )
    SET_COMP ( "l2_ident",          L2_OCT_ID )

```

```

        SET_COMP ("user_inf_l2_prot",      L2_COPFC)
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS21_300_BTP_UDI)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",              CS_Q931)
    SET_COMP ("trans_mode",        TM_CIRCUIT)
    SET_COMP ("trans_cap",         ITC_DIGITAL_UNRESTRICTED)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",          COMP_NO)
    SET_COMP ("structure",         STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",            DUPLEX_FULL)
    SET_COMP ("config",           CONF_POINT_TO_POINT)
    SET_COMP ("nirr",             NIRR_NO_MEANING)
    SET_COMP ("establish",        ESTAB_DEMAND)
    SET_COMP ("access_ident",     AI_OCT_ID)
    SET_COMP ("rate_adapt",       RA_V110)
    SET_COMP ("sig_access_prot",  SIAP_I440)
    SET_COMP ("l1_ident",         L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot",  L1_DEFAULT)
    SET_COMP ("sync_async",       ASYNCHRONOUS)
    SET_COMP ("num_stop",         NSTOP_2)
    SET_COMP ("negotiate",        NEGOTIATE_NO)
    SET_COMP ("num_data",         NDATA_8)
    SET_COMP ("user_rate",        UR_0_3_KBIT)
    SET_COMP ("intermed_rate",    IR_16_KBIT)
    SET_COMP ("nic_tx",           NIC_TX_NO)
    SET_COMP ("nic_rx",           NIC_RX_NO)
    SET_COMP ("parity",           PARITY_NONE)
    SET_COMP ("conn_elem",        CE_TRANSPA_PREF)
    SET_COMP ("modem_type",       MT_NONE)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SKIP_COMP ("l2_ident")

```

```

        SKIP_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS21_300_BNTP_UDI)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",             CS_Q931)
    SET_COMP ("trans_mode",       TM_CIRCUIT)
    SET_COMP ("trans_cap",        ITC_DIGITAL_UNRESTRICTED)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",         COMP_NO)
    SET_COMP ("structure",        STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",          DUPLEX_FULL)
    SET_COMP ("config",          CONF_POINT_TO_POINT)
    SET_COMP ("nirr",            NIRR_NO_MEANING)
    SET_COMP ("establish",       ESTAB_DEMAND)
    SET_COMP ("access_ident",    AI_OCT_ID)
    SET_COMP ("rate_adapt",      RA_V110)
    SET_COMP ("sig_access_prot", SIAP_I440)
    SET_COMP ("l1_ident",        L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot", L1_DEFAULT)
    SET_COMP ("sync_async",      ASYNCHRONOUS)
    SET_COMP ("num_stop",        NSTOP_2)
    SET_COMP ("negotiate",       NEGOTIATE_NO)
    SET_COMP ("num_data",        NDATA_8)
    SET_COMP ("user_rate",       UR_0_3_KBIT)
    SET_COMP ("intermed_rate",   IR_16_KBIT)
    SET_COMP ("nic_tx",          NIC_TX_NO)
    SET_COMP ("nic_rx",          NIC_RX_NO)
    SET_COMP ("parity",          PARITY_NONE)
    SET_COMP ("conn_elem",       CE_RLP_PREF)
    SET_COMP ("modem_type",      MT_NONE)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SET_COMP ("l2_ident",        L2_OCT_ID)

```

```

        SET_COMP ("user_inf_l2_prot",      L2_COPFC)
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS21_NT_300_1)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",              CS_Q931)
    SET_COMP ("trans_mode",        TM_CIRCUIT)
    SET_COMP ("trans_cap",         ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",          COMP_NO)
    SET_COMP ("structure",         STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",            DUPLEX_FULL)
    SET_COMP ("config",            CONF_POINT_TO_POINT)
    SET_COMP ("nirr",              NIRR_NO_MEANING)
    SET_COMP ("establish",         ESTAB_DEMAND)
    SET_COMP ("access_ident",      AI_OCT_ID)
    SET_COMP ("rate_adapt",        RA_NONE)
    SET_COMP ("sig_access_prot",   SIAP_I440)
    SET_COMP ("l1_ident",          L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot",  L1_DEFAULT)
    SET_COMP ("sync_async",        ASYNCHRONOUS)
    SET_COMP ("num_stop",          NSTOP_1)
    SET_COMP ("negotiate",         NEGOTIATE_NO)
    SET_COMP ("num_data",          NDATA_7)
    SET_COMP ("user_rate",         UR_0_3_KBIT)
    SET_COMP ("intermed_rate",     IR_16_KBIT)
    SET_COMP ("nic_tx",            NIC_TX_NO)
    SET_COMP ("nic_rx",            NIC_RX_NO)
    SET_COMP ("parity",            PARITY_ODD)
    SET_COMP ("conn_elem",         CE_RLP)
    SET_COMP ("modem_type",        MT_V21)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SET_COMP ("l2_ident",          L2_OCT_ID)

```

```

        SET_COMP ("user_inf_l2_prot",      L2_ISO6429)
ENDSTRUCT

/* derived from BC_BS21_NT_300_1 by setting outband flow control; needed for MOCs */
BEGIN_MSTRUCT ("bearer_cap", BC_BS21_NT_300_1_OUTBAND)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",              CS_Q931)
    SET_COMP ("trans_mode",        TM_CIRCUIT)
    SET_COMP ("trans_cap",         ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",          COMP_NO)
    SET_COMP ("structure",         STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",            DUPLEX_FULL)
    SET_COMP ("config",            CONF_POINT_TO_POINT)
    SET_COMP ("nirr",              NIRR_NO_MEANING)
    SET_COMP ("establish",         ESTAB_DEMAND)
    SET_COMP ("access_ident",      AI_OCT_ID)
    SET_COMP ("rate_adapt",        RA_NONE)
    SET_COMP ("sig_access_prot",   SIAP_I440)
    SET_COMP ("l1_ident",          L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot",  L1_DEFAULT)
    SET_COMP ("sync_async",        ASYNCHRONOUS)
    SET_COMP ("num_stop",          NSTOP_1)
    SET_COMP ("negotiate",         NEGOTIATE_NO)
    SET_COMP ("num_data",          NDATA_7)
    SET_COMP ("user_rate",         UR_0_3_KBIT)
    SET_COMP ("intermed_rate",     IR_16_KBIT)
    SET_COMP ("nic_tx",            NIC_TX_NO)
    SET_COMP ("nic_rx",            NIC_RX_NO)
    SET_COMP ("parity",            PARITY_ODD)
    SET_COMP ("conn_elem",         CE_RLP)
    SET_COMP ("modem_type",        MT_V21)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SKIP_COMP ("l2_ident")          /* outband flow control */

```

```

        SKIP_COMP ("user_inf_l2_prot")    /* outband flow control */
ENDSTRUCT

BEGIN_MSTRUCT ("bearer_cap", BC_BS21_NT_300_1_RSP)
    SET_COMP ("rad_chan_req",           RCR_FULL_ONLY)
    SET_COMP ("code",                   CS_Q931)
    SET_COMP ("trans_mode",             TM_CIRCUIT)
    SET_COMP ("trans_cap",             ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",               COMP_NO)
    SET_COMP ("structure",              STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",                 DUPLEX_FULL)
    SET_COMP ("config",                 CONF_POINT_TO_POINT)
    SET_COMP ("nirr",                  NIRR_NO_MEANING)
    SET_COMP ("establish",              ESTAB_DEMAND)
    SET_COMP ("access_ident",           AI_OCT_ID)
    SET_COMP ("rate_adapt",             RA_NONE)
    SET_COMP ("sig_access_prot",        SIAP_I440)
    SET_COMP ("l1_ident",               L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot",        L1_DEFAULT)
    SET_COMP ("sync_async",             ASYNCHRONOUS)
    SET_COMP ("num_stop",               NSTOP_1)
    SET_COMP ("negotiate",              NEGOTIATE_NO)
    SET_COMP ("num_data",               NDATA_7)
    SET_COMP ("user_rate",              UR_0_3_KBIT)
    SET_COMP ("intermed_rate",          IR_16_KBIT)
    SET_COMP ("nic_tx",                 NIC_TX_NO)
    SET_COMP ("nic_rx",                 NIC_RX_NO)
    SET_COMP ("parity",                 PARITY_ODD)
    SET_COMP ("conn_elem",              CE_RLP)
    SET_COMP ("modem_type",             MT_V21)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SKIP_COMP ("l2_ident")

```

```

        SKIP_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS21_NT_300_1_UDI)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",             CS_Q931)
    SET_COMP ("trans_mode",       TM_CIRCUIT)
    SET_COMP ("trans_cap",        ITC_DIGITAL_UNRESTRICTED)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",         COMP_NO)
    SET_COMP ("structure",        STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",           DUPLEX_FULL)
    SET_COMP ("config",           CONF_POINT_TO_POINT)
    SET_COMP ("nirr",             NIRR_DATA)
    SET_COMP ("establish",        ESTAB_DEMAND)
    SET_COMP ("access_ident",     AI_OCT_ID)
    SET_COMP ("rate_adapt",       RA_V110)
    SET_COMP ("sig_access_prot",  SIAP_I440)
    SET_COMP ("l1_ident",         L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot", L1_DEFAULT)
    SET_COMP ("sync_async",       ASYNCHRONOUS)
    SET_COMP ("num_stop",         NSTOP_1)
    SET_COMP ("negotiate",        NEGOTIATE_NO)
    SET_COMP ("num_data",         NDATA_7)
    SET_COMP ("user_rate",        UR_0_3_KBIT)
    SET_COMP ("intermed_rate",    IR_16_KBIT)
    SET_COMP ("nic_tx",           NIC_TX_NO)
    SET_COMP ("nic_rx",           NIC_RX_NO)
    SET_COMP ("parity",           PARITY_ODD)
    SET_COMP ("conn_elem",        CE_RLP)
    SET_COMP ("modem_type",       MT_NONE)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SET_COMP ("l2_ident",         L2_OCT_ID)

```

```

        SET_COMP ( "user_inf_l2_prot",      L2_ISO6429 )
ENDSTRUCT
BEGIN_MSTRUCT ( "bearer_cap", BC_BS20_NT_14400_1 )
    SET_COMP ( "rad_chan_req",      RCR_FULL_PREF )
    SET_COMP ( "code",              CS_Q931 )
    SET_COMP ( "trans_mode",        TM_CIRCUIT )
    SET_COMP ( "trans_cap",         ITC_AUDIO )
    SKIP_COMP ( "coding_bc3x1" )
    SKIP_COMP ( "ctm" )
    SKIP_COMP ( "speech_vers1" )
    SKIP_COMP ( "coding_bc3x2" )
    SKIP_COMP ( "speech_vers2" )
    SKIP_COMP ( "coding_bc3x3" )
    SKIP_COMP ( "speech_vers3" )
    SKIP_COMP ( "coding_bc3x4" )
    SKIP_COMP ( "speech_vers4" )
    SKIP_COMP ( "coding_bc3x5" )
    SKIP_COMP ( "speech_vers5" )
    SET_COMP ( "compress",          COMP_NO )
    SET_COMP ( "structure",         STRC_SERV_DATA_INTEG )
    SET_COMP ( "duplex",           DUPLEX_FULL )
    SET_COMP ( "config",          CONF_POINT_TO_POINT )
    SET_COMP ( "nirr",            NIRR_NO_MEANING )
    SET_COMP ( "establish",        ESTAB_DEMAND )
    SET_COMP ( "access_ident",     AI_OCT_ID )
    SET_COMP ( "rate_adapt",       RA_NONE )
    SET_COMP ( "sig_access_prot",  SIAP_I440 )
    SET_COMP ( "l1_ident",         L1_OCT_ID )
    SET_COMP ( "user_inf_l1_prot",  L1_DEFAULT )
    SET_COMP ( "sync_async",       ASYNCHRONOUS )
    SET_COMP ( "num_stop",         NSTOP_1 )
    SET_COMP ( "negotiate",        NEGOTIATE_NO )
    SET_COMP ( "num_data",         NDATA_7 )
    SET_COMP ( "user_rate",        UR_9_6_KBIT )
    SET_COMP ( "intermed_rate",    IR_16_KBIT )
    SET_COMP ( "nic_tx",           NIC_TX_NO )
    SET_COMP ( "nic_rx",           NIC_RX_NO )
    SET_COMP ( "parity",          PARITY_ODD )
    SET_COMP ( "conn_elem",        CE_RLP )
    SET_COMP ( "modem_type",       MT_AUTO )
    SET_COMP ( "modem_type_2",     OTHER_MODEM_TYPE_NONE )
    SET_COMP ( "fnur",            FNUR_14400 )
    SET_COMP ( "acc",              ACC_EMPTY )
    SET_COMP ( "mTch",            MAX_TCH_1 )
    SET_COMP ( "uimi",            UIMI_NOT_ALLOWED )
    SET_COMP ( "waiur",           WAIUR_NOT_APPLICABLE )
    SET_COMP ( "l2_ident",         L2_OCT_ID )

```

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        SET_COMP ( "user_inf_l2_prot",      L2_ISO6429 )
ENDSTRUCT
BEGIN_MSTRUCT ( "bearer_cap", BC_BS20_NT_14400_2 )
    SET_COMP ( "rad_chan_req",      RCR_FULL_PREF )
    SET_COMP ( "code",              CS_Q931 )
    SET_COMP ( "trans_mode",        TM_CIRCUIT )
    SET_COMP ( "trans_cap",         ITC_AUDIO )
    SKIP_COMP ( "coding_bc3x1" )
    SKIP_COMP ( "ctm" )
    SKIP_COMP ( "speech_vers1" )
    SKIP_COMP ( "coding_bc3x2" )
    SKIP_COMP ( "speech_vers2" )
    SKIP_COMP ( "coding_bc3x3" )
    SKIP_COMP ( "speech_vers3" )
    SKIP_COMP ( "coding_bc3x4" )
    SKIP_COMP ( "speech_vers4" )
    SKIP_COMP ( "coding_bc3x5" )
    SKIP_COMP ( "speech_vers5" )
    SET_COMP ( "compress",          COMP_NO )
    SET_COMP ( "structure",         STRC_SERV_DATA_INTEG )
    SET_COMP ( "duplex",            DUPLEX_FULL )
    SET_COMP ( "config",           CONF_POINT_TO_POINT )
    SET_COMP ( "nirr",             NIRR_NO_MEANING )
    SET_COMP ( "establish",        ESTAB_DEMAND )
    SET_COMP ( "access_ident",     AI_OCT_ID )
    SET_COMP ( "rate_adapt",       RA_NONE )
    SET_COMP ( "sig_access_prot",   SIAP_I440 )
    SET_COMP ( "l1_ident",         L1_OCT_ID )
    SET_COMP ( "user_inf_l1_prot",  L1_DEFAULT )
    SET_COMP ( "sync_async",       ASYNCHRONOUS )
    SET_COMP ( "num_stop",         NSTOP_1 )
    SET_COMP ( "negotiate",        NEGOTIATE_NO )
    SET_COMP ( "num_data",         NDATA_7 )
    SET_COMP ( "user_rate",        UR_9_6_KBIT )
    SET_COMP ( "intermed_rate",    IR_16_KBIT )
    SET_COMP ( "nic_tx",           NIC_TX_NO )
    SET_COMP ( "nic_rx",           NIC_RX_NO )
    SET_COMP ( "parity",           PARITY_ODD )
    SET_COMP ( "conn_elem",        CE_RLP )
    SET_COMP ( "modem_type",       MT_AUTO )
    SET_COMP ( "modem_type_2",     OTHER_MODEM_TYPE_NONE )
    SET_COMP ( "fnur",             FNUR_14400 )
    SET_COMP ( "acc",              ACC_ALL )
    SET_COMP ( "mTch",             MAX_TCH_1 )
    SET_COMP ( "uimi",             UIMI_NOT_ALLOWED )
    SET_COMP ( "waiur",            WAIUR_14400 )
    SKIP_COMP ( "l2_ident" )

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        SKIP_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS22_NT_1200)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",             CS_Q931)
    SET_COMP ("trans_mode",       TM_CIRCUIT)
    SET_COMP ("trans_cap",        ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",         COMP_NO)
    SET_COMP ("structure",        STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",           DUPLEX_FULL)
    SET_COMP ("config",           CONF_POINT_TO_POINT)
    SET_COMP ("nirr",             NIRR_NO_MEANING)
    SET_COMP ("establish",        ESTAB_DEMAND)
    SET_COMP ("access_ident",     AI_OCT_ID)
    SET_COMP ("rate_adapt",       RA_NONE)
    SET_COMP ("sig_access_prot",   SIAP_I440)
    SET_COMP ("l1_ident",         L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot",  L1_DEFAULT)
    SET_COMP ("sync_async",       ASYNCHRONOUS)
    SET_COMP ("num_stop",         NSTOP_1)
    SET_COMP ("negotiate",        NEGOTIATE_NO)
    SET_COMP ("num_data",         NDATA_7)
    SET_COMP ("user_rate",        UR_1_2_KBIT)
    SET_COMP ("intermed_rate",    IR_16_KBIT)
    SET_COMP ("nic_tx",           NIC_TX_NO)
    SET_COMP ("nic_rx",           NIC_RX_NO)
    SET_COMP ("parity",           PARITY_ODD)
    SET_COMP ("conn_elem",        CE_RLP)
    SET_COMP ("modem_type",       MT_V22)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SET_COMP ("l2_ident",         L2_OCT_ID)

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        SET_COMP ("user_inf_l2_prot",      L2_ISO6429)
ENDSTRUCT

BEGIN_MSTRUCT ("bearer_cap", BC_BS22_NT_1200_OUTBAND)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",              CS_Q931)
    SET_COMP ("trans_mode",        TM_CIRCUIT)
    SET_COMP ("trans_cap",         ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",          COMP_NO)
    SET_COMP ("structure",         STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",            DUPLEX_FULL)
    SET_COMP ("config",            CONF_POINT_TO_POINT)
    SET_COMP ("nirr",              NIRR_NO_MEANING)
    SET_COMP ("establish",         ESTAB_DEMAND)
    SET_COMP ("access_ident",      AI_OCT_ID)
    SET_COMP ("rate_adapt",        RA_NONE)
    SET_COMP ("sig_access_prot",   SIAP_I440)
    SET_COMP ("l1_ident",          L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot",  L1_DEFAULT)
    SET_COMP ("sync_async",        ASYNCHRONOUS)
    SET_COMP ("num_stop",          NSTOP_1)
    SET_COMP ("negotiate",         NEGOTIATE_NO)
    SET_COMP ("num_data",          NDATA_7)
    SET_COMP ("user_rate",         UR_1_2_KBIT)
    SET_COMP ("intermed_rate",     IR_16_KBIT)
    SET_COMP ("nic_tx",            NIC_TX_NO)
    SET_COMP ("nic_rx",            NIC_RX_NO)
    SET_COMP ("parity",            PARITY_ODD)
    SET_COMP ("conn_elem",         CE_RLP)
    SET_COMP ("modem_type",        MT_V22)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SKIP_COMP ("l2_ident")

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        SKIP_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS22_NT_1200_RSP)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",             CS_Q931)
    SET_COMP ("trans_mode",       TM_CIRCUIT)
    SET_COMP ("trans_cap",        ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",         COMP_NO)
    SET_COMP ("structure",        STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",          DUPLEX_FULL)
    SET_COMP ("config",          CONF_POINT_TO_POINT)
    SET_COMP ("nirr",            NIRR_NO_MEANING)
    SET_COMP ("establish",       ESTAB_DEMAND)
    SET_COMP ("access_ident",     AI_OCT_ID)
    SET_COMP ("rate_adapt",       RA_NONE)
    SET_COMP ("sig_access_prot",  SIAP_I440)
    SET_COMP ("l1_ident",         L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot", L1_DEFAULT)
    SET_COMP ("sync_async",       ASYNCHRONOUS)
    SET_COMP ("num_stop",         NSTOP_1)
    SET_COMP ("negotiate",        NEGOTIATE_NO)
    SET_COMP ("num_data",         NDATA_7)
    SET_COMP ("user_rate",        UR_1_2_KBIT)
    SET_COMP ("intermed_rate",    IR_16_KBIT)
    SET_COMP ("nic_tx",           NIC_TX_NO)
    SET_COMP ("nic_rx",           NIC_RX_NO)
    SET_COMP ("parity",          PARITY_ODD)
    SET_COMP ("conn_elem",        CE_RLP)
    SET_COMP ("modem_type",       MT_V22)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SKIP_COMP ("l2_ident")

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        SKIP_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS22_NT_1200_UDI)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",             CS_Q931)
    SET_COMP ("trans_mode",       TM_CIRCUIT)
    SET_COMP ("trans_cap",        ITC_DIGITAL_UNRESTRICTED)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",         COMP_NO)
    SET_COMP ("structure",        STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",          DUPLEX_FULL)
    SET_COMP ("config",          CONF_POINT_TO_POINT)
    SET_COMP ("nirr",            NIRR_DATA)
    SET_COMP ("establish",       ESTAB_DEMAND)
    SET_COMP ("access_ident",    AI_OCT_ID)
    SET_COMP ("rate_adapt",      RA_V110)
    SET_COMP ("sig_access_prot",  SIAP_I440)
    SET_COMP ("l1_ident",        L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot", L1_DEFAULT)
    SET_COMP ("sync_async",      ASYNCHRONOUS)
    SET_COMP ("num_stop",        NSTOP_1)
    SET_COMP ("negotiate",       NEGOTIATE_NO)
    SET_COMP ("num_data",        NDATA_7)
    SET_COMP ("user_rate",       UR_1_2_KBIT)
    SET_COMP ("intermed_rate",   IR_16_KBIT)
    SET_COMP ("nic_tx",          NIC_TX_NO)
    SET_COMP ("nic_rx",          NIC_RX_NO)
    SET_COMP ("parity",          PARITY_ODD)
    SET_COMP ("conn_elem",       CE_RLP)
    SET_COMP ("modem_type",      MT_NONE)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SET_COMP ("l2_ident",        L2_OCT_ID)

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        SET_COMP ("user_inf_l2_prot",      L2_ISO6429)
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS24_NT_2400)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",              CS_Q931)
    SET_COMP ("trans_mode",        TM_CIRCUIT)
    SET_COMP ("trans_cap",         ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",          COMP_NO)
    SET_COMP ("structure",         STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",            DUPLEX_FULL)
    SET_COMP ("config",            CONF_POINT_TO_POINT)
    SET_COMP ("nirr",              NIRR_DATA)
    SET_COMP ("establish",         ESTAB_DEMAND)
    SET_COMP ("access_ident",      AI_OCT_ID)
    SET_COMP ("rate_adapt",        RA_NONE)
    SET_COMP ("sig_access_prot",   SIAP_I440)
    SET_COMP ("l1_ident",          L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot",  L1_DEFAULT)
    SET_COMP ("sync_async",        ASYNCHRONOUS)
    SET_COMP ("num_stop",          NSTOP_1)
    SET_COMP ("negotiate",         NEGOTIATE_NO)
    SET_COMP ("num_data",          NDATA_7)
    SET_COMP ("user_rate",         UR_2_4_KBIT)
    SET_COMP ("intermed_rate",     IR_16_KBIT)
    SET_COMP ("nic_tx",            NIC_TX_NO)
    SET_COMP ("nic_rx",            NIC_RX_NO)
    SET_COMP ("parity",            PARITY_ODD)
    SET_COMP ("conn_elem",         CE_RLP)
    SET_COMP ("modem_type",        MT_V22BIS)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SET_COMP ("l2_ident",          L2_OCT_ID)

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        SET_COMP ("user_inf_l2_prot",      L2_ISO6429)
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS24_NT_2400_V26TER)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",              CS_Q931)
    SET_COMP ("trans_mode",        TM_CIRCUIT)
    SET_COMP ("trans_cap",         ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",          COMP_NO)
    SET_COMP ("structure",         STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",            DUPLEX_FULL)
    SET_COMP ("config",           CONF_POINT_TO_POINT)
    SET_COMP ("nirr",             NIRR_NO_MEANING)
    SET_COMP ("establish",        ESTAB_DEMAND)
    SET_COMP ("access_ident",     AI_OCT_ID)
    SET_COMP ("rate_adapt",       RA_NONE)
    SET_COMP ("sig_access_prot",  SIAP_I440)
    SET_COMP ("l1_ident",         L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot",  L1_DEFAULT)
    SET_COMP ("sync_async",       ASYNCHRONOUS)
    SET_COMP ("num_stop",         NSTOP_1)
    SET_COMP ("negotiate",        NEGOTIATE_NO)
    SET_COMP ("num_data",         NDATA_7)
    SET_COMP ("user_rate",        UR_2_4_KBIT)
    SET_COMP ("intermed_rate",    IR_16_KBIT)
    SET_COMP ("nic_tx",           NIC_TX_NO)
    SET_COMP ("nic_rx",           NIC_RX_NO)
    SET_COMP ("parity",           PARITY_ODD)
    SET_COMP ("conn_elem",        CE_RLP)
    SET_COMP ("modem_type",       MT_V26_TER)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SET_COMP ("l2_ident",         L2_OCT_ID)

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        SET_COMP ("user_inf_l2_prot",      L2_ISO6429)
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS24_NT_2400_V26TER_OUTBAND)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",             CS_Q931)
    SET_COMP ("trans_mode",       TM_CIRCUIT)
    SET_COMP ("trans_cap",        ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",         COMP_NO)
    SET_COMP ("structure",        STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",          DUPLEX_FULL)
    SET_COMP ("config",          CONF_POINT_TO_POINT)
    SET_COMP ("nirr",            NIRR_NO_MEANING)
    SET_COMP ("establish",       ESTAB_DEMAND)
    SET_COMP ("access_ident",    AI_OCT_ID)
    SET_COMP ("rate_adapt",      RA_NONE)
    SET_COMP ("sig_access_prot",  SIAP_I440)
    SET_COMP ("l1_ident",        L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot", L1_DEFAULT)
    SET_COMP ("sync_async",      ASYNCHRONOUS)
    SET_COMP ("num_stop",        NSTOP_1)
    SET_COMP ("negotiate",       NEGOTIATE_NO)
    SET_COMP ("num_data",        NDATA_7)
    SET_COMP ("user_rate",       UR_2_4_KBIT)
    SET_COMP ("intermed_rate",   IR_16_KBIT)
    SET_COMP ("nic_tx",          NIC_TX_NO)
    SET_COMP ("nic_rx",          NIC_RX_NO)
    SET_COMP ("parity",         PARITY_ODD)
    SET_COMP ("conn_elem",       CE_RLP)
    SET_COMP ("modem_type",      MT_V26_TER)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SKIP_COMP ("l2_ident")

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```

        SKIP_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS24_NT_2400_RSP)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",              CS_Q931)
    SET_COMP ("trans_mode",        TM_CIRCUIT)
    SET_COMP ("trans_cap",         ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",          COMP_NO)
    SET_COMP ("structure",         STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",            DUPLEX_FULL)
    SET_COMP ("config",            CONF_POINT_TO_POINT)
    SET_COMP ("nirr",              NIRR_NO_MEANING)
    SET_COMP ("establish",         ESTAB_DEMAND)
    SET_COMP ("access_ident",      AI_OCT_ID)
    SET_COMP ("rate_adapt",        RA_NONE)
    SET_COMP ("sig_access_prot",    SIAP_I440)
    SET_COMP ("l1_ident",          L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot",   L1_DEFAULT)
    SET_COMP ("sync_async",        ASYNCHRONOUS)
    SET_COMP ("num_stop",          NSTOP_1)
    SET_COMP ("negotiate",         NEGOTIATE_NO)
    SET_COMP ("num_data",          NDATA_7)
    SET_COMP ("user_rate",         UR_2_4_KBIT)
    SET_COMP ("intermed_rate",     IR_16_KBIT)
    SET_COMP ("nic_tx",            NIC_TX_NO)
    SET_COMP ("nic_rx",            NIC_RX_NO)
    SET_COMP ("parity",            PARITY_ODD)
    SET_COMP ("conn_elem",         CE_RLP)
    SET_COMP ("modem_type",        MT_V22_BIS)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SKIP_COMP ("l2_ident")

```

```

        SKIP_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS24_NT_2400_UDI)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",             CS_Q931)
    SET_COMP ("trans_mode",       TM_CIRCUIT)
    SET_COMP ("trans_cap",        ITC_DIGITAL_UNRESTRICTED)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",         COMP_NO)
    SET_COMP ("structure",        STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",           DUPLEX_FULL)
    SET_COMP ("config",           CONF_POINT_TO_POINT)
    SET_COMP ("nirr",             NIRR_DATA)
    SET_COMP ("establish",        ESTAB_DEMAND)
    SET_COMP ("access_ident",     AI_OCT_ID)
    SET_COMP ("rate_adapt",       RA_V110)
    SET_COMP ("sig_access_prot",  SIAP_I440)
    SET_COMP ("l1_ident",         L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot", L1_DEFAULT)
    SET_COMP ("sync_async",       ASYNCHRONOUS)
    SET_COMP ("num_stop",         NSTOP_1)
    SET_COMP ("negotiate",        NEGOTIATE_NO)
    SET_COMP ("num_data",         NDATA_7)
    SET_COMP ("user_rate",        UR_2_4_KBIT)
    SET_COMP ("intermed_rate",    IR_16_KBIT)
    SET_COMP ("nic_tx",           NIC_TX_NO)
    SET_COMP ("nic_rx",           NIC_RX_NO)
    SET_COMP ("parity",           PARITY_ODD)
    SET_COMP ("conn_elem",        CE_RLP)
    SET_COMP ("modem_type",       MT_NONE)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SET_COMP ("l2_ident",         L2_OCT_ID)

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        SET_COMP ("user_inf_l2_prot",      L2_ISO6429)
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS25_NT_4800)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",             CS_Q931)
    SET_COMP ("trans_mode",       TM_CIRCUIT)
    SET_COMP ("trans_cap",       ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",         COMP_NO)
    SET_COMP ("structure",       STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",          DUPLEX_FULL)
    SET_COMP ("config",         CONF_POINT_TO_POINT)
    SET_COMP ("nirr",           NIRR_NO_MEANING)
    SET_COMP ("establish",      ESTAB_DEMAND)
    SET_COMP ("access_ident",    AI_OCT_ID)
    SET_COMP ("rate_adapt",     RA_NONE)
    SET_COMP ("sig_access_prot", SIAP_I440)
    SET_COMP ("l1_ident",       L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot", L1_DEFAULT)
    SET_COMP ("sync_async",     ASYNCHRONOUS)
    SET_COMP ("num_stop",       NSTOP_1)
    SET_COMP ("negotiate",      NEGOTIATE_NO)
    SET_COMP ("num_data",       NDATA_7)
    SET_COMP ("user_rate",      UR_4_8_KBIT)
    SET_COMP ("intermed_rate",  IR_16_KBIT)
    SET_COMP ("nic_tx",         NIC_TX_NO)
    SET_COMP ("nic_rx",         NIC_RX_NO)
    SET_COMP ("parity",        PARITY_ODD)
    SET_COMP ("conn_elem",     CE_RLP)
    SET_COMP ("modem_type",    MT_V32)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SET_COMP ("l2_ident",       L2_OCT_ID)

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        SET_COMP ("user_inf_l2_prot",      L2_ISO6429)
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS25_NT_4800_OUTBAND)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",             CS_Q931)
    SET_COMP ("trans_mode",       TM_CIRCUIT)
    SET_COMP ("trans_cap",        ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",         COMP_NO)
    SET_COMP ("structure",        STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",           DUPLEX_FULL)
    SET_COMP ("config",           CONF_POINT_TO_POINT)
    SET_COMP ("nirr",             NIRR_NO_MEANING)
    SET_COMP ("establish",        ESTAB_DEMAND)
    SET_COMP ("access_ident",     AI_OCT_ID)
    SET_COMP ("rate_adapt",       RA_NONE)
    SET_COMP ("sig_access_prot",  SIAP_I440)
    SET_COMP ("l1_ident",         L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot", L1_DEFAULT)
    SET_COMP ("sync_async",       ASYNCHRONOUS)
    SET_COMP ("num_stop",         NSTOP_1)
    SET_COMP ("negotiate",        NEGOTIATE_NO)
    SET_COMP ("num_data",         NDATA_7)
    SET_COMP ("user_rate",        UR_4_8_KBIT)
    SET_COMP ("intermed_rate",    IR_16_KBIT)
    SET_COMP ("nic_tx",           NIC_TX_NO)
    SET_COMP ("nic_rx",           NIC_RX_NO)
    SET_COMP ("parity",           PARITY_ODD)
    SET_COMP ("conn_elem",        CE_RLP)
    SET_COMP ("modem_type",       MT_V32)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SKIP_COMP ("l2_ident")

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        SKIP_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS25_NT_4800_RSP)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",             CS_Q931)
    SET_COMP ("trans_mode",       TM_CIRCUIT)
    SET_COMP ("trans_cap",        ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",         COMP_NO)
    SET_COMP ("structure",        STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",           DUPLEX_FULL)
    SET_COMP ("config",           CONF_POINT_TO_POINT)
    SET_COMP ("nirr",             NIRR_NO_MEANING)
    SET_COMP ("establish",        ESTAB_DEMAND)
    SET_COMP ("access_ident",     AI_OCT_ID)
    SET_COMP ("rate_adapt",       RA_NONE)
    SET_COMP ("sig_access_prot",  SIAP_I440)
    SET_COMP ("l1_ident",         L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot",  L1_DEFAULT)
    SET_COMP ("sync_async",       ASYNCHRONOUS)
    SET_COMP ("num_stop",         NSTOP_1)
    SET_COMP ("negotiate",        NEGOTIATE_NO)
    SET_COMP ("num_data",         NDATA_7)
    SET_COMP ("user_rate",        UR_4_8_KBIT)
    SET_COMP ("intermed_rate",    IR_16_KBIT)
    SET_COMP ("nic_tx",           NIC_TX_NO)
    SET_COMP ("nic_rx",           NIC_RX_NO)
    SET_COMP ("parity",           PARITY_ODD)
    SET_COMP ("conn_elem",        CE_RLP)
    SET_COMP ("modem_type",       MT_V32)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SKIP_COMP ("l2_ident")

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        SKIP_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS25_NT_4800_A)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",             CS_Q931)
    SET_COMP ("trans_mode",       TM_CIRCUIT)
    SET_COMP ("trans_cap",        ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",         COMP_NO)
    SET_COMP ("structure",        STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",           DUPLEX_FULL)
    SET_COMP ("config",          CONF_POINT_TO_POINT)
    SET_COMP ("nirr",            NIRR_DATA)
    SET_COMP ("establish",       ESTAB_DEMAND)
    SET_COMP ("access_ident",    AI_OCT_ID)
    SET_COMP ("rate_adapt",      RA_NONE)
    SET_COMP ("sig_access_prot",  SIAP_I440)
    SET_COMP ("l1_ident",        L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot", L1_DEFAULT)
    SET_COMP ("sync_async",      ASYNCHRONOUS)
    SET_COMP ("num_stop",        NSTOP_1)
    SET_COMP ("negotiate",       NEGOTIATE_NO)
    SET_COMP ("num_data",        NDATA_7)
    SET_COMP ("user_rate",       UR_4_8_KBIT)
    SET_COMP ("intermed_rate",   IR_16_KBIT)
    SET_COMP ("nic_tx",          NIC_TX_NO)
    SET_COMP ("nic_rx",          NIC_RX_NO)
    SET_COMP ("parity",          PARITY_ODD)
    SET_COMP ("conn_elem",       CE_RLP)
    SET_COMP ("modem_type",      MT_V32)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SET_COMP ("l2_ident",        L2_OCT_ID)

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        SET_COMP ("user_inf_l2_prot",      L2_ISO6429)
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS25_NT_4800_A2)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",             CS_Q931)
    SET_COMP ("trans_mode",       TM_CIRCUIT)
    SET_COMP ("trans_cap",        ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",         COMP_NO)
    SET_COMP ("structure",        STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",           DUPLEX_FULL)
    SET_COMP ("config",          CONF_POINT_TO_POINT)
    SET_COMP ("nirr",            NIRR_DATA)
    SET_COMP ("establish",       ESTAB_DEMAND)
    SET_COMP ("access_ident",     AI_OCT_ID)
    SET_COMP ("rate_adapt",       RA_NONE)
    SET_COMP ("sig_access_prot",  SIAP_I440)
    SET_COMP ("l1_ident",         L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot", L1_DEFAULT)
    SET_COMP ("sync_async",       ASYNCHRONOUS)
    SET_COMP ("num_stop",         NSTOP_1)
    SET_COMP ("negotiate",        NEGOTIATE_NO)
    SET_COMP ("num_data",         NDATA_7)
    SET_COMP ("user_rate",        UR_4_8_KBIT)
    SET_COMP ("intermed_rate",    IR_8_KBIT)
    SET_COMP ("nic_tx",           NIC_TX_NO)
    SET_COMP ("nic_rx",           NIC_RX_NO)
    SET_COMP ("parity",          PARITY_ODD)
    SET_COMP ("conn_elem",        CE_RLP)
    SET_COMP ("modem_type",       MT_V32)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SET_COMP ("l2_ident",         L2_OCT_ID)

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        SET_COMP ("user_inf_l2_prot",      L2_ISO6429)
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS25_NT_4800_B)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",              CS_Q931)
    SET_COMP ("trans_mode",        TM_CIRCUIT)
    SET_COMP ("trans_cap",         ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",          COMP_NO)
    SET_COMP ("structure",         STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",            DUPLEX_FULL)
    SET_COMP ("config",            CONF_POINT_TO_POINT)
    SET_COMP ("nirr",              NIRR_DATA)
    SET_COMP ("establish",         ESTAB_DEMAND)
    SET_COMP ("access_ident",      AI_OCT_ID)
    SET_COMP ("rate_adapt",        RA_NONE)
    SET_COMP ("sig_access_prot",   SIAP_I440)
    SET_COMP ("l1_ident",          L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot",  L1_DEFAULT)
    SET_COMP ("sync_async",        ASYNCHRONOUS)
    SET_COMP ("num_stop",          NSTOP_1)
    SET_COMP ("negotiate",         NEGOTIATE_NO)
    SET_COMP ("num_data",          NDATA_7)
    SET_COMP ("user_rate",         UR_4_8_KBIT)
    SET_COMP ("intermed_rate",     IR_16_KBIT)
    SET_COMP ("nic_tx",            NIC_TX_NO)
    SET_COMP ("nic_rx",            NIC_RX_NO)
    SET_COMP ("parity",            PARITY_ODD)
    SET_COMP ("conn_elem",         CE_RLP_PREF)
    SET_COMP ("modem_type",        MT_V32)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SET_COMP ("l2_ident",          L2_OCT_ID)

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        SET_COMP ("user_inf_l2_prot",      L2_ISO6429)
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS25_NT_4800_C)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",             CS_Q931)
    SET_COMP ("trans_mode",       TM_CIRCUIT)
    SET_COMP ("trans_cap",        ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",         COMP_NO)
    SET_COMP ("structure",        STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",           DUPLEX_FULL)
    SET_COMP ("config",          CONF_POINT_TO_POINT)
    SET_COMP ("nirr",            NIRR_DATA)
    SET_COMP ("establish",       ESTAB_DEMAND)
    SET_COMP ("access_ident",    AI_OCT_ID)
    SET_COMP ("rate_adapt",      RA_NONE)
    SET_COMP ("sig_access_prot",  SIAP_I440)
    SET_COMP ("l1_ident",        L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot", L1_DEFAULT)
    SET_COMP ("sync_async",      ASYNCHRONOUS)
    SET_COMP ("num_stop",        NSTOP_1)
    SET_COMP ("negotiate",       NEGOTIATE_NO)
    SET_COMP ("num_data",        NDATA_7)
    SET_COMP ("user_rate",       UR_4_8_KBIT)
    SET_COMP ("intermed_rate",   IR_8_KBIT)
    SET_COMP ("nic_tx",          NIC_TX_NO)
    SET_COMP ("nic_rx",          NIC_RX_NO)
    SET_COMP ("parity",          PARITY_ODD)
    SET_COMP ("conn_elem",       CE_RLP)
    SET_COMP ("modem_type",      MT_V32)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SET_COMP ("l2_ident",        L2_OCT_ID)

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```

        SET_COMP ("user_inf_l2_prot",      L2_ISO6429)
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS25_NT_4800_D)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",             CS_Q931)
    SET_COMP ("trans_mode",       TM_CIRCUIT)
    SET_COMP ("trans_cap",       ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",         COMP_NO)
    SET_COMP ("structure",       STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",          DUPLEX_FULL)
    SET_COMP ("config",         CONF_POINT_TO_POINT)
    SET_COMP ("nirr",           NIRR_DATA)
    SET_COMP ("establish",      ESTAB_DEMAND)
    SET_COMP ("access_ident",    AI_OCT_ID)
    SET_COMP ("rate_adapt",     RA_NONE)
    SET_COMP ("sig_access_prot", SIAP_I440)
    SET_COMP ("l1_ident",       L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot", L1_DEFAULT)
    SET_COMP ("sync_async",     ASYNCHRONOUS)
    SET_COMP ("num_stop",       NSTOP_1)
    SET_COMP ("negotiate",      NEGOTIATE_NO)
    SET_COMP ("num_data",       NDATA_7)
    SET_COMP ("user_rate",      UR_4_8_KBIT)
    SET_COMP ("intermed_rate",  IR_8_KBIT)
    SET_COMP ("nic_tx",         NIC_TX_NO)
    SET_COMP ("nic_rx",         NIC_RX_NO)
    SET_COMP ("parity",         PARITY_ODD)
    SET_COMP ("conn_elem",      CE_RLP_PREF)
    SET_COMP ("modem_type",     MT_V32)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SET_COMP ("l2_ident",       L2_OCT_ID)

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        SET_COMP ("user_inf_l2_prot",      L2_ISO6429)
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS25_NT_4800_UDI)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",             CS_Q931)
    SET_COMP ("trans_mode",       TM_CIRCUIT)
    SET_COMP ("trans_cap",        ITC_DIGITAL_UNRESTRICTED)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",         COMP_NO)
    SET_COMP ("structure",        STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",           DUPLEX_FULL)
    SET_COMP ("config",          CONF_POINT_TO_POINT)
    SET_COMP ("nirr",            NIRR_DATA)
    SET_COMP ("establish",       ESTAB_DEMAND)
    SET_COMP ("access_ident",    AI_OCT_ID)
    SET_COMP ("rate_adapt",      RA_V110)
    SET_COMP ("sig_access_prot",  SIAP_I440)
    SET_COMP ("l1_ident",        L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot", L1_DEFAULT)
    SET_COMP ("sync_async",      ASYNCHRONOUS)
    SET_COMP ("num_stop",        NSTOP_1)
    SET_COMP ("negotiate",       NEGOTIATE_NO)
    SET_COMP ("num_data",        NDATA_7)
    SET_COMP ("user_rate",       UR_4_8_KBIT)
    SET_COMP ("intermed_rate",   IR_16_KBIT)
    SET_COMP ("nic_tx",          NIC_TX_NO)
    SET_COMP ("nic_rx",          NIC_RX_NO)
    SET_COMP ("parity",          PARITY_ODD)
    SET_COMP ("conn_elem",       CE_RLP)
    SET_COMP ("modem_type",      MT_NONE)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SET_COMP ("l2_ident",        L2_OCT_ID)

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```

        SET_COMP ("user_inf_l2_prot",      L2_ISO6429)
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS26_NT_9600)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",              CS_Q931)
    SET_COMP ("trans_mode",        TM_CIRCUIT)
    SET_COMP ("trans_cap",         ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",          COMP_NO)
    SET_COMP ("structure",         STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",            DUPLEX_FULL)
    SET_COMP ("config",            CONF_POINT_TO_POINT)
    SET_COMP ("nirr",              NIRR_NO_MEANING)
    SET_COMP ("establish",         ESTAB_DEMAND)
    SET_COMP ("access_ident",      AI_OCT_ID)
    SET_COMP ("rate_adapt",        RA_NONE)
    SET_COMP ("sig_access_prot",    SIAP_I440)
    SET_COMP ("l1_ident",          L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot",    L1_DEFAULT)
    SET_COMP ("sync_async",        ASYNCHRONOUS)
    SET_COMP ("num_stop",          NSTOP_1)
    SET_COMP ("negotiate",         NEGOTIATE_NO)
    SET_COMP ("num_data",          NDATA_7)
    SET_COMP ("user_rate",         UR_9_6_KBIT)
    SET_COMP ("intermed_rate",     IR_16_KBIT)
    SET_COMP ("nic_tx",            NIC_TX_NO)
    SET_COMP ("nic_rx",            NIC_RX_NO)
    SET_COMP ("parity",            PARITY_ODD)
    SET_COMP ("conn_elem",         CE_RLP)
    SET_COMP ("modem_type",        MT_V32)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SET_COMP ("l2_ident",          L2_OCT_ID)

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        SET_COMP ("user_inf_l2_prot",      L2_ISO6429)
ENDSTRUCT

BEGIN_MSTRUCT ("bearer_cap", BC_BS26_NT_9600A)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",              CS_Q931)
    SET_COMP ("trans_mode",        TM_CIRCUIT)
    SET_COMP ("trans_cap",         ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",          COMP_NO)
    SET_COMP ("structure",         STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",            DUPLEX_FULL)
    SET_COMP ("config",           CONF_POINT_TO_POINT)
    SET_COMP ("nirr",             NIRR_NO_MEANING)
    SET_COMP ("establish",        ESTAB_DEMAND)
    SET_COMP ("access_ident",     AI_OCT_ID)
    SET_COMP ("rate_adapt",       RA_NONE)
    SET_COMP ("sig_access_prot",   SIAP_I440)
    SET_COMP ("l1_ident",         L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot",  L1_DEFAULT)
    SET_COMP ("sync_async",       ASYNCHRONOUS)
    SET_COMP ("num_stop",         NSTOP_2)
    SET_COMP ("negotiate",        NEGOTIATE_NO)
    SET_COMP ("num_data",         NDATA_8)
    SET_COMP ("user_rate",        UR_9_6_KBIT)
    SET_COMP ("intermed_rate",    IR_16_KBIT)
    SET_COMP ("nic_tx",           NIC_TX_NO)
    SET_COMP ("nic_rx",           NIC_RX_NO)
    SET_COMP ("parity",           PARITY_NONE)
    SET_COMP ("conn_elem",        CE_RLP)
    SET_COMP ("modem_type",       MT_V32)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SKIP_COMP ("l2_ident")

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        SKIP_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS26_NT_9600_OUTBAND)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",             CS_Q931)
    SET_COMP ("trans_mode",       TM_CIRCUIT)
    SET_COMP ("trans_cap",        ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",         COMP_NO)
    SET_COMP ("structure",        STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",           DUPLEX_FULL)
    SET_COMP ("config",          CONF_POINT_TO_POINT)
    SET_COMP ("nirr",            NIRR_NO_MEANING)
    SET_COMP ("establish",        ESTAB_DEMAND)
    SET_COMP ("access_ident",     AI_OCT_ID)
    SET_COMP ("rate_adapt",       RA_NONE)
    SET_COMP ("sig_access_prot",  SIAP_I440)
    SET_COMP ("l1_ident",         L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot", L1_DEFAULT)
    SET_COMP ("sync_async",       ASYNCHRONOUS)
    SET_COMP ("num_stop",         NSTOP_1)
    SET_COMP ("negotiate",        NEGOTIATE_NO)
    SET_COMP ("num_data",         NDATA_7)
    SET_COMP ("user_rate",        UR_9_6_KBIT)
    SET_COMP ("intermed_rate",    IR_16_KBIT)
    SET_COMP ("nic_tx",           NIC_TX_NO)
    SET_COMP ("nic_rx",           NIC_RX_NO)
    SET_COMP ("parity",           PARITY_ODD)
    SET_COMP ("conn_elem",        CE_RLP)
    SET_COMP ("modem_type",       MT_V32)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SKIP_COMP ("l2_ident")

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        SKIP_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS26_NT_9600_1)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",             CS_Q931)
    SET_COMP ("trans_mode",       TM_CIRCUIT)
    SET_COMP ("trans_cap",        ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",         COMP_NO)
    SET_COMP ("structure",        STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",           DUPLEX_FULL)
    SET_COMP ("config",           CONF_POINT_TO_POINT)
    SET_COMP ("nirr",             NIRR_NO_MEANING)
    SET_COMP ("establish",        ESTAB_DEMAND)
    SET_COMP ("access_ident",     AI_OCT_ID)
    SET_COMP ("rate_adapt",       RA_NONE)
    SET_COMP ("sig_access_prot",   SIAP_I440)
    SET_COMP ("l1_ident",         L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot",  L1_DEFAULT)
    SET_COMP ("sync_async",       ASYNCHRONOUS)
    SET_COMP ("num_stop",         NSTOP_2)
    SET_COMP ("negotiate",        NEGOTIATE_NO)
    SET_COMP ("num_data",         NDATA_8)
    SET_COMP ("user_rate",        UR_9_6_KBIT)
    SET_COMP ("intermed_rate",    IR_16_KBIT)
    SET_COMP ("nic_tx",           NIC_TX_NO)
    SET_COMP ("nic_rx",           NIC_RX_NO)
    SET_COMP ("parity",           PARITY_NONE)
    SET_COMP ("conn_elem",        CE_RLP)
    SET_COMP ("modem_type",       MT_V32)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SET_COMP ("l2_ident",         L2_OCT_ID)

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        SET_COMP ("user_inf_l2_prot",      L2_COPFC)
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS26_NT_9600_UDI)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",              CS_Q931)
    SET_COMP ("trans_mode",        TM_CIRCUIT)
    SET_COMP ("trans_cap",         ITC_DIGITAL_UNRESTRICTED)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",          COMP_NO)
    SET_COMP ("structure",         STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",            DUPLEX_FULL)
    SET_COMP ("config",            CONF_POINT_TO_POINT)
    SET_COMP ("nirr",              NIRR_NO_MEANING)
    SET_COMP ("establish",         ESTAB_DEMAND)
    SET_COMP ("access_ident",      AI_OCT_ID)
    SET_COMP ("rate_adapt",        RA_V110)
    SET_COMP ("sig_access_prot",   SIAP_I440)
    SET_COMP ("l1_ident",          L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot",  L1_DEFAULT)
    SET_COMP ("sync_async",        ASYNCHRONOUS)
    SET_COMP ("num_stop",          NSTOP_1)
    SET_COMP ("negotiate",         NEGOTIATE_NO)
    SET_COMP ("num_data",          NDATA_7)
    SET_COMP ("user_rate",         UR_9_6_KBIT)
    SET_COMP ("intermed_rate",     IR_16_KBIT)
    SET_COMP ("nic_tx",            NIC_TX_NO)
    SET_COMP ("nic_rx",            NIC_RX_NO)
    SET_COMP ("parity",            PARITY_ODD)
    SET_COMP ("conn_elem",         CE_RLP)
    SET_COMP ("modem_type",        MT_NONE)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SET_COMP ("l2_ident",          L2_OCT_ID)

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        SET_COMP ( "user_inf_l2_prot",      L2_ISO6429 )
ENDSTRUCT
BEGIN_MSTRUCT ( "bearer_cap", BC_BS26_9600_BNTP )
    SET_COMP ( "rad_chan_req",      RCR_FULL_ONLY )
    SET_COMP ( "code",              CS_Q931 )
    SET_COMP ( "trans_mode",        TM_CIRCUIT )
    SET_COMP ( "trans_cap",         ITC_AUDIO )
    SKIP_COMP ( "coding_bc3x1" )
    SKIP_COMP ( "ctm" )
    SKIP_COMP ( "speech_vers1" )
    SKIP_COMP ( "coding_bc3x2" )
    SKIP_COMP ( "speech_vers2" )
    SKIP_COMP ( "coding_bc3x3" )
    SKIP_COMP ( "speech_vers3" )
    SKIP_COMP ( "coding_bc3x4" )
    SKIP_COMP ( "speech_vers4" )
    SKIP_COMP ( "coding_bc3x5" )
    SKIP_COMP ( "speech_vers5" )
    SET_COMP ( "compress",          COMP_NO )
    SET_COMP ( "structure",         STRC_SERV_DATA_INTEG )
    SET_COMP ( "duplex",            DUPLEX_FULL )
    SET_COMP ( "config",            CONF_POINT_TO_POINT )
    SET_COMP ( "nirr",              NIRR_NO_MEANING )
    SET_COMP ( "establish",         ESTAB_DEMAND )
    SET_COMP ( "access_ident",      AI_OCT_ID )
    SET_COMP ( "rate_adapt",        RA_NONE )
    SET_COMP ( "sig_access_prot",   SIAP_I440 )
    SET_COMP ( "l1_ident",          L1_OCT_ID )
    SET_COMP ( "user_inf_l1_prot",   L1_DEFAULT )
    SET_COMP ( "sync_async",        ASYNCHRONOUS )
    SET_COMP ( "num_stop",          NSTOP_2 )
    SET_COMP ( "negotiate",         NEGOTIATE_NO )
    SET_COMP ( "num_data",          NDATA_8 )
    SET_COMP ( "user_rate",         UR_9_6_KBIT )
    SET_COMP ( "intermed_rate",     IR_16_KBIT )
    SET_COMP ( "nic_tx",            NIC_TX_NO )
    SET_COMP ( "nic_rx",            NIC_RX_NO )
    SET_COMP ( "parity",            PARITY_NONE )
    SET_COMP ( "conn_elem",         CE_RLP_PREF )
    SET_COMP ( "modem_type",        MT_V32 )
    SKIP_COMP ( "modem_type_2" )
    SKIP_COMP ( "fnur" )
    SKIP_COMP ( "acc" )
    SKIP_COMP ( "mTch" )
    SKIP_COMP ( "uimi" )
    SKIP_COMP ( "waiur" )
    SET_COMP ( "l2_ident",          L2_OCT_ID )

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        SET_COMP ("user_inf_l2_prot",      L2_COPFC)
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS26_9600_BNTPT)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",              CSTD_GSM)
    SET_COMP ("trans_mode",        TM_CIRCUIT)
    SET_COMP ("trans_cap",         ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",          COMP_YES)
    SET_COMP ("structure",         STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",            DUPLEX_FULL)
    SET_COMP ("config",            CONF_POINT_TO_POINT)
    SET_COMP ("nirr",              NIRR_NO_MEANING)
    SET_COMP ("establish",         ESTAB_DEMAND)
    SET_COMP ("access_ident",      AI_OCT_ID)
    SET_COMP ("rate_adapt",        RA_NONE)
    SET_COMP ("sig_access_prot",   SIAP_I440)
    SET_COMP ("l1_ident",          L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot",  L1_DEFAULT)
    SET_COMP ("sync_async",        ASYNCHRONOUS)
    SET_COMP ("num_stop",          NSTOP_1)
    SET_COMP ("negotiate",         NEGOTIATE_NO)
    SET_COMP ("num_data",          NDATA_8)
    SET_COMP ("user_rate",         UR_9_6_KBIT)
    SET_COMP ("intermed_rate",     IR_16_KBIT)
    SET_COMP ("nic_tx",            NIC_TX_NO)
    SET_COMP ("nic_rx",            NIC_RX_NO)
    SET_COMP ("parity",            PARITY_NONE)
    SET_COMP ("conn_elem",         CE_RLP_PREF)
    SET_COMP ("modem_type",        MT_AUTO)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SET_COMP ("l2_ident",          L2_OCT_ID)

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        SET_COMP ("user_inf_l2_prot",      L2_COPFC)
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS26_9600_TPT)
    SET_COMP ("rad_chan_req",             RCR_FULL_ONLY)
    SET_COMP ("code",                     CSTD_GSM)
    SET_COMP ("trans_mode",               TM_CIRCUIT)
    SET_COMP ("trans_cap",                 ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",                  COMP_NO)
    SET_COMP ("structure",                 STRC_UNSTRUCTURED)
    SET_COMP ("duplex",                    DUPLEX_FULL)
    SET_COMP ("config",                    CONF_POINT_TO_POINT)
    SET_COMP ("nirr",                      NIRR_NO_MEANING)
    SET_COMP ("establish",                 ESTAB_DEMAND)
    SET_COMP ("access_ident",              AI_OCT_ID)
    SET_COMP ("rate_adapt",                RA_NONE)
    SET_COMP ("sig_access_prot",           SIAP_I440)
    SET_COMP ("l1_ident",                  L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot",          L1_DEFAULT)
    SET_COMP ("sync_async",                 ASYNCHRONOUS)
    SET_COMP ("num_stop",                   NSTOP_1)
    SET_COMP ("negotiate",                 NEGOTIATE_NO)
    SET_COMP ("num_data",                   NDATA_8)
    SET_COMP ("user_rate",                  UR_9_6_KBIT)
    SET_COMP ("intermed_rate",              IR_16_KBIT)
    SET_COMP ("nic_tx",                     NIC_TX_NO)
    SET_COMP ("nic_rx",                     NIC_RX_NO)
    SET_COMP ("parity",                     PARITY_NONE)
    SET_COMP ("conn_elem",                  CE_TRANSPA)
    SET_COMP ("modem_type",                 MT_V32)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SKIP_COMP ("l2_ident")

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        SKIP_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS23_NT)
    SET_COMP ("rad_chan_req",          RCR_FULL_ONLY)
    SET_COMP ("code",                  CS_Q931)
    SET_COMP ("trans_mode",            TM_CIRCUIT)
    SET_COMP ("trans_cap",             ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",              COMP_NO)
    SET_COMP ("structure",             STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",                DUPLEX_FULL)
    SET_COMP ("config",               CONF_POINT_TO_POINT)
    SET_COMP ("nirr",                 NIRR_NO_MEANING)
    SET_COMP ("establish",            ESTAB_DEMAND)
    SET_COMP ("access_ident",         AI_OCT_ID)
    SET_COMP ("rate_adapt",           RA_NONE)
    SET_COMP ("sig_access_prot",      SIAP_I440)
    SET_COMP ("l1_ident",             L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot",     L1_DEFAULT)
    SET_COMP ("sync_async",           ASYNCHRONOUS)
    SET_COMP ("num_stop",             NSTOP_1)
    SET_COMP ("negotiate",            NEGOTIATE_NO)
    SET_COMP ("num_data",             NDATA_7)
    SET_COMP ("user_rate",            UR_1_2_KBIT_V23)
    SET_COMP ("intermed_rate",        IR_16_KBIT)
    SET_COMP ("nic_tx",               NIC_TX_NO)
    SET_COMP ("nic_rx",               NIC_RX_NO)
    SET_COMP ("parity",               PARITY_ODD)
    SET_COMP ("conn_elem",            CE_RLP)
    SET_COMP ("modem_type",           MT_V23)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SET_COMP ("l2_ident",             L2_OCT_ID)

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        SET_COMP ("user_inf_l2_prot",      L2_ISO6429)
ENDSTRUCT

BEGIN_MSTRUCT ("bearer_cap", BC_BS23_NT_OUTBAND)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",              CS_Q931)
    SET_COMP ("trans_mode",        TM_CIRCUIT)
    SET_COMP ("trans_cap",         ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",          COMP_NO)
    SET_COMP ("structure",         STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",            DUPLEX_FULL)
    SET_COMP ("config",           CONF_POINT_TO_POINT)
    SET_COMP ("nirr",              NIRR_NO_MEANING)
    SET_COMP ("establish",         ESTAB_DEMAND)
    SET_COMP ("access_ident",      AI_OCT_ID)
    SET_COMP ("rate_adapt",        RA_NONE)
    SET_COMP ("sig_access_prot",   SIAP_I440)
    SET_COMP ("l1_ident",          L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot",  L1_DEFAULT)
    SET_COMP ("sync_async",        ASYNCHRONOUS)
    SET_COMP ("num_stop",          NSTOP_1)
    SET_COMP ("negotiate",         NEGOTIATE_NO)
    SET_COMP ("num_data",          NDATA_7)
    SET_COMP ("user_rate",         UR_1_2_KBIT_V23)
    SET_COMP ("intermed_rate",     IR_16_KBIT)
    SET_COMP ("nic_tx",            NIC_TX_NO)
    SET_COMP ("nic_rx",            NIC_RX_NO)
    SET_COMP ("parity",            PARITY_ODD)
    SET_COMP ("conn_elem",         CE_RLP)
    SET_COMP ("modem_type",        MT_V23)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SKIP_COMP ("l2_ident")

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```

        SKIP_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS21_NT_300_2)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",             CS_Q931)
    SET_COMP ("trans_mode",       TM_CIRCUIT)
    SET_COMP ("trans_cap",        ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",         COMP_NO)
    SET_COMP ("structure",        STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",           DUPLEX_FULL)
    SET_COMP ("config",          CONF_POINT_TO_POINT)
    SET_COMP ("nirr",             NIRR_NO_MEANING)
    SET_COMP ("establish",        ESTAB_DEMAND)
    SET_COMP ("access_ident",     AI_OCT_ID)
    SET_COMP ("rate_adapt",       RA_NONE)
    SET_COMP ("sig_access_prot",   SIAP_I440)
    SET_COMP ("l1_ident",         L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot",  L1_DEFAULT)
    SET_COMP ("sync_async",       ASYNCHRONOUS)
    SET_COMP ("num_stop",         NSTOP_1)
    SET_COMP ("negotiate",        NEGOTIATE_NO)
    SET_COMP ("num_data",         NDATA_7)
    SET_COMP ("user_rate",        UR_0_3_KBIT)
    SET_COMP ("intermed_rate",    IR_16_KBIT)
    SET_COMP ("nic_tx",           NIC_TX_NO)
    SET_COMP ("nic_rx",           NIC_RX_NO)
    SET_COMP ("parity",           PARITY_EVEN)
    SET_COMP ("conn_elem",        CE_RLP)
    SET_COMP ("modem_type",       MT_V21)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SKIP_COMP ("l2_ident")

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        SKIP_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS21_NT_300_3)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",              CS_Q931)
    SET_COMP ("trans_mode",        TM_CIRCUIT)
    SET_COMP ("trans_cap",         ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",          COMP_NO)
    SET_COMP ("structure",         STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",            DUPLEX_FULL)
    SET_COMP ("config",           CONF_POINT_TO_POINT)
    SET_COMP ("nirr",             NIRR_NO_MEANING)
    SET_COMP ("establish",        ESTAB_DEMAND)
    SET_COMP ("access_ident",     AI_OCT_ID)
    SET_COMP ("rate_adapt",       RA_NONE)
    SET_COMP ("sig_access_prot",  SIAP_I440)
    SET_COMP ("l1_ident",         L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot",  L1_DEFAULT)
    SET_COMP ("sync_async",       ASYNCHRONOUS)
    SET_COMP ("num_stop",         NSTOP_1)
    SET_COMP ("negotiate",        NEGOTIATE_NO)
    SET_COMP ("num_data",         NDATA_7)
    SET_COMP ("user_rate",        UR_0_3_KBIT)
    SET_COMP ("intermed_rate",    IR_16_KBIT)
    SET_COMP ("nic_tx",           NIC_TX_NO)
    SET_COMP ("nic_rx",           NIC_RX_NO)
    SET_COMP ("parity",           PARITY_0)
    SET_COMP ("conn_elem",        CE_RLP)
    SET_COMP ("modem_type",       MT_V21)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SKIP_COMP ("l2_ident")

```

```

        SKIP_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS21_NT_300_4)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",             CS_Q931)
    SET_COMP ("trans_mode",       TM_CIRCUIT)
    SET_COMP ("trans_cap",        ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",         COMP_NO)
    SET_COMP ("structure",        STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",           DUPLEX_FULL)
    SET_COMP ("config",           CONF_POINT_TO_POINT)
    SET_COMP ("nirr",             NIRR_DATA)
    SET_COMP ("establish",        ESTAB_DEMAND)
    SET_COMP ("access_ident",     AI_OCT_ID)
    SET_COMP ("rate_adapt",       RA_NONE)
    SET_COMP ("sig_access_prot",  SIAP_I440)
    SET_COMP ("l1_ident",         L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot", L1_DEFAULT)
    SET_COMP ("sync_async",       ASYNCHRONOUS)
    SET_COMP ("num_stop",         NSTOP_2)
    SET_COMP ("negotiate",        NEGOTIATE_NO)
    SET_COMP ("num_data",         NDATA_8)
    SET_COMP ("user_rate",        UR_0_3_KBIT)
    SET_COMP ("intermed_rate",    IR_16_KBIT)
    SET_COMP ("nic_tx",           NIC_TX_NO)
    SET_COMP ("nic_rx",           NIC_RX_NO)
    SET_COMP ("parity",           PARITY_NONE)
    SET_COMP ("conn_elem",        CE_RLP)
    SET_COMP ("modem_type",       MT_V21)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SET_COMP ("l2_ident",         L2_OCT_ID)

```

```

        SET_COMP ("user_inf_l2_prot",      L2_ISO6429)
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS21_NT_300_4B)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",              CS_Q931)
    SET_COMP ("trans_mode",        TM_CIRCUIT)
    SET_COMP ("trans_cap",         ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",          COMP_NO)
    SET_COMP ("structure",         STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",            DUPLEX_FULL)
    SET_COMP ("config",           CONF_POINT_TO_POINT)
    SET_COMP ("nirr",              NIRR_NO_MEANING)
    SET_COMP ("establish",        ESTAB_DEMAND)
    SET_COMP ("access_ident",      AI_OCT_ID)
    SET_COMP ("rate_adapt",        RA_NONE)
    SET_COMP ("sig_access_prot",   SIAP_I440)
    SET_COMP ("l1_ident",          L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot",  L1_DEFAULT)
    SET_COMP ("sync_async",        ASYNCHRONOUS)
    SET_COMP ("num_stop",          NSTOP_2)
    SET_COMP ("negotiate",         NEGOTIATE_NO)
    SET_COMP ("num_data",          NDATA_8)
    SET_COMP ("user_rate",         UR_0_3_KBIT)
    SET_COMP ("intermed_rate",     IR_16_KBIT)
    SET_COMP ("nic_tx",            NIC_TX_NO)
    SET_COMP ("nic_rx",            NIC_RX_NO)
    SET_COMP ("parity",            PARITY_NONE)
    SET_COMP ("conn_elem",         CE_RLP)
    SET_COMP ("modem_type",        MT_V21)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SET_COMP ("l2_ident",          L2_OCT_ID)

```

```

        SET_COMP ( "user_inf_l2_prot",      L2_COPFC )
ENDSTRUCT
BEGIN_MSTRUCT ( "bearer_cap", BC_BS20_NT_14400_4 )
    SET_COMP ( "rad_chan_req",      RCR_FULL_PREF )
    SET_COMP ( "code",              CS_Q931 )
    SET_COMP ( "trans_mode",        TM_CIRCUIT )
    SET_COMP ( "trans_cap",         ITC_AUDIO )
    SKIP_COMP ( "coding_bc3x1" )
    SKIP_COMP ( "ctm" )
    SKIP_COMP ( "speech_vers1" )
    SKIP_COMP ( "coding_bc3x2" )
    SKIP_COMP ( "speech_vers2" )
    SKIP_COMP ( "coding_bc3x3" )
    SKIP_COMP ( "speech_vers3" )
    SKIP_COMP ( "coding_bc3x4" )
    SKIP_COMP ( "speech_vers4" )
    SKIP_COMP ( "coding_bc3x5" )
    SKIP_COMP ( "speech_vers5" )
    SET_COMP ( "compress",          COMP_NO )
    SET_COMP ( "structure",         STRC_SERV_DATA_INTEG )
    SET_COMP ( "duplex",            DUPLEX_FULL )
    SET_COMP ( "config",            CONF_POINT_TO_POINT )
    SET_COMP ( "nirr",              NIRR_NO_MEANING )
    SET_COMP ( "establish",         ESTAB_DEMAND )
    SET_COMP ( "access_ident",      AI_OCT_ID )
    SET_COMP ( "rate_adapt",        RA_NONE )
    SET_COMP ( "sig_access_prot",   SIAP_I440 )
    SET_COMP ( "l1_ident",          L1_OCT_ID )
    SET_COMP ( "user_inf_l1_prot",  L1_DEFAULT )
    SET_COMP ( "sync_async",        ASYNCHRONOUS )
    SET_COMP ( "num_stop",          NSTOP_2 )
    SET_COMP ( "negotiate",         NEGOTIATE_NO )
    SET_COMP ( "num_data",          NDATA_8 )
    SET_COMP ( "user_rate",         UR_9_6_KBIT )
    SET_COMP ( "intermed_rate",     IR_16_KBIT )
    SET_COMP ( "nic_tx",            NIC_TX_NO )
    SET_COMP ( "nic_rx",            NIC_RX_NO )
    SET_COMP ( "parity",            PARITY_NONE )
    SET_COMP ( "conn_elem",         CE_RLP )
    SET_COMP ( "modem_type",        MT_AUTO )
    SET_COMP ( "modem_type_2",     OTHER_MODEM_TYPE_V34 )
    SET_COMP ( "fnur",              FNUR_14400 )
    SET_COMP ( "acc",               ACC_ALL )
    SET_COMP ( "mTch",              MAX_TCH_1 )
    SET_COMP ( "uimi",              UIMI_NOT_ALLOWED )
    SET_COMP ( "waiur",             WAIUR_14400 )
    SET_COMP ( "l2_ident",          L2_OCT_ID )

```

```

        SET_COMP ( "user_inf_l2_prot",      L2_COPFC )
ENDSTRUCT
BEGIN_MSTRUCT ( "bearer_cap", BC_BS20_NT_14400_5 )
    SET_COMP ( "rad_chan_req",      RCR_FULL_PREF )
    SET_COMP ( "code",              CS_Q931 )
    SET_COMP ( "trans_mode",        TM_CIRCUIT )
    SET_COMP ( "trans_cap",         ITC_AUDIO )
    SKIP_COMP ( "coding_bc3x1" )
    SKIP_COMP ( "ctm" )
    SKIP_COMP ( "speech_vers1" )
    SKIP_COMP ( "coding_bc3x2" )
    SKIP_COMP ( "speech_vers2" )
    SKIP_COMP ( "coding_bc3x3" )
    SKIP_COMP ( "speech_vers3" )
    SKIP_COMP ( "coding_bc3x4" )
    SKIP_COMP ( "speech_vers4" )
    SKIP_COMP ( "coding_bc3x5" )
    SKIP_COMP ( "speech_vers5" )
    SET_COMP ( "compress",          COMP_NO )
    SET_COMP ( "structure",         STRC_SERV_DATA_INTEG )
    SET_COMP ( "duplex",            DUPLEX_FULL )
    SET_COMP ( "config",            CONF_POINT_TO_POINT )
    SET_COMP ( "nirr",              NIRR_NO_MEANING )
    SET_COMP ( "establish",         ESTAB_DEMAND )
    SET_COMP ( "access_ident",      AI_OCT_ID )
    SET_COMP ( "rate_adapt",        RA_NONE )
    SET_COMP ( "sig_access_prot",   SIAP_I440 )
    SET_COMP ( "l1_ident",          L1_OCT_ID )
    SET_COMP ( "user_inf_l1_prot",  L1_DEFAULT )
    SET_COMP ( "sync_async",        ASYNCHRONOUS )
    SET_COMP ( "num_stop",          NSTOP_2 )
    SET_COMP ( "negotiate",         NEGOTIATE_NO )
    SET_COMP ( "num_data",          NDATA_8 )
    SET_COMP ( "user_rate",         UR_9_6_KBIT )
    SET_COMP ( "intermed_rate",     IR_16_KBIT )
    SET_COMP ( "nic_tx",            NIC_TX_NO )
    SET_COMP ( "nic_rx",            NIC_RX_NO )
    SET_COMP ( "parity",            PARITY_NONE )
    SET_COMP ( "conn_elem",         CE_RLP )
    SET_COMP ( "modem_type",        MT_V21 )
    SET_COMP ( "modem_type_2",     OTHER_MODEM_TYPE_NONE )
    SET_COMP ( "fnur",              FNUR_14400 )
    SET_COMP ( "acc",               ACC_EMPTY )
    SET_COMP ( "mTch",              MAX_TCH_1 )
    SET_COMP ( "uimi",              UIMI_NOT_ALLOWED )
    SET_COMP ( "waiur",             WAIUR_NOT_APPLICABLE )
    SET_COMP ( "l2_ident",          L2_OCT_ID )

```

```

        SET_COMP ("user_inf_l2_prot",      L2_COPFC)
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS21_NT_300_4_UDI)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",              CS_Q931)
    SET_COMP ("trans_mode",        TM_CIRCUIT)
    SET_COMP ("trans_cap",         ITC_DIGITAL_UNRESTRICTED)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",          COMP_NO)
    SET_COMP ("structure",         STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",            DUPLEX_FULL)
    SET_COMP ("config",            CONF_POINT_TO_POINT)
    SET_COMP ("nirr",              NIRR_NO_MEANING)
    SET_COMP ("establish",         ESTAB_DEMAND)
    SET_COMP ("access_ident",      AI_OCT_ID)
    SET_COMP ("rate_adapt",        RA_V110)
    SET_COMP ("sig_access_prot",    SIAP_I440)
    SET_COMP ("l1_ident",          L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot",   L1_DEFAULT)
    SET_COMP ("sync_async",        ASYNCHRONOUS)
    SET_COMP ("num_stop",          NSTOP_2)
    SET_COMP ("negotiate",         NEGOTIATE_NO)
    SET_COMP ("num_data",          NDATA_8)
    SET_COMP ("user_rate",         UR_0_3_KBIT)
    SET_COMP ("intermed_rate",     IR_16_KBIT)
    SET_COMP ("nic_tx",            NIC_TX_NO)
    SET_COMP ("nic_rx",            NIC_RX_NO)
    SET_COMP ("parity",            PARITY_NONE)
    SET_COMP ("conn_elem",         CE_RLP)
    SET_COMP ("modem_type",        MT_NONE)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SET_COMP ("l2_ident",          L2_OCT_ID)

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```

        SET_COMP ("user_inf_l2_prot",      L2_COPFC)
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS21_NT_300_5)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",              CS_Q931)
    SET_COMP ("trans_mode",        TM_CIRCUIT)
    SET_COMP ("trans_cap",         ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",          COMP_NO)
    SET_COMP ("structure",         STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",            DUPLEX_FULL)
    SET_COMP ("config",           CONF_POINT_TO_POINT)
    SET_COMP ("nirr",             NIRR_NO_MEANING)
    SET_COMP ("establish",        ESTAB_DEMAND)
    SET_COMP ("access_ident",     AI_OCT_ID)
    SET_COMP ("rate_adapt",       RA_NONE)
    SET_COMP ("sig_access_prot",  SIAP_I440)
    SET_COMP ("l1_ident",         L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot",  L1_DEFAULT)
    SET_COMP ("sync_async",       ASYNCHRONOUS)
    SET_COMP ("num_stop",         NSTOP_2)
    SET_COMP ("negotiate",        NEGOTIATE_NO)
    SET_COMP ("num_data",         NDATA_8)
    SET_COMP ("user_rate",        UR_0_3_KBIT)
    SET_COMP ("intermed_rate",    IR_16_KBIT)
    SET_COMP ("nic_tx",           NIC_TX_NO)
    SET_COMP ("nic_rx",           NIC_RX_NO)
    SET_COMP ("parity",          PARITY_NONE)
    SET_COMP ("conn_elem",        CE_RLP)
    SET_COMP ("modem_type",       MT_V21)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SKIP_COMP ("l2_ident")

```

```

        SKIP_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS21_NT_300_5_UDI)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",             CS_Q931)
    SET_COMP ("trans_mode",       TM_CIRCUIT)
    SET_COMP ("trans_cap",        ITC_DIGITAL_UNRESTRICTED)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",         COMP_NO)
    SET_COMP ("structure",        STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",           DUPLEX_FULL)
    SET_COMP ("config",           CONF_POINT_TO_POINT)
    SET_COMP ("nirr",             NIRR_NO_MEANING)
    SET_COMP ("establish",        ESTAB_DEMAND)
    SET_COMP ("access_ident",     AI_OCT_ID)
    SET_COMP ("rate_adapt",       RA_V110)
    SET_COMP ("sig_access_prot",  SIAP_I440)
    SET_COMP ("l1_ident",         L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot", L1_DEFAULT)
    SET_COMP ("sync_async",       ASYNCHRONOUS)
    SET_COMP ("num_stop",         NSTOP_2)
    SET_COMP ("negotiate",        NEGOTIATE_NO)
    SET_COMP ("num_data",         NDATA_8)
    SET_COMP ("user_rate",        UR_0_3_KBIT)
    SET_COMP ("intermed_rate",    IR_16_KBIT)
    SET_COMP ("nic_tx",           NIC_TX_NO)
    SET_COMP ("nic_rx",           NIC_RX_NO)
    SET_COMP ("parity",           PARITY_NONE)
    SET_COMP ("conn_elem",        CE_RLP)
    SET_COMP ("modem_type",       MT_NONE)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SKIP_COMP ("l2_ident")

```

```

        SKIP_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS26_BOTH_T_9600)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",             CS_Q931)
    SET_COMP ("trans_mode",       TM_CIRCUIT)
    SET_COMP ("trans_cap",        ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",         COMP_NO)
    SET_COMP ("structure",        STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",           DUPLEX_FULL)
    SET_COMP ("config",          CONF_POINT_TO_POINT)
    SET_COMP ("nirr",            NIRR_NO_MEANING)
    SET_COMP ("establish",       ESTAB_DEMAND)
    SET_COMP ("access_ident",     AI_OCT_ID)
    SET_COMP ("rate_adapt",       RA_NONE)
    SET_COMP ("sig_access_prot",  SIAP_I440)
    SET_COMP ("l1_ident",         L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot", L1_DEFAULT)
    SET_COMP ("sync_async",       ASYNCHRONOUS)
    SET_COMP ("num_stop",         NSTOP_2)
    SET_COMP ("negotiate",        NEGOTIATE_NO)
    SET_COMP ("num_data",         NDATA_8)
    SET_COMP ("user_rate",        UR_9_6_KBIT)
    SET_COMP ("intermed_rate",    IR_16_KBIT)
    SET_COMP ("nic_tx",           NIC_TX_NO)
    SET_COMP ("nic_rx",           NIC_RX_NO)
    SET_COMP ("parity",           PARITY_NONE)
    SET_COMP ("conn_elem",        CE_TRANSPA_PREF)
    SET_COMP ("modem_type",       MT_V32)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SKIP_COMP ("l2_ident")

```

```

        SKIP_COMP ("user_inf_l2_prot")
ENDSTRUCT
BEGIN_MSTRUCT ("bearer_cap", BC_BS26_BOTH_NT_9600)
    SET_COMP ("rad_chan_req",      RCR_FULL_ONLY)
    SET_COMP ("code",             CS_Q931)
    SET_COMP ("trans_mode",       TM_CIRCUIT)
    SET_COMP ("trans_cap",        ITC_AUDIO)
    SKIP_COMP ("coding_bc3x1")
    SKIP_COMP ("ctm")
    SKIP_COMP ("speech_vers1")
    SKIP_COMP ("coding_bc3x2")
    SKIP_COMP ("speech_vers2")
    SKIP_COMP ("coding_bc3x3")
    SKIP_COMP ("speech_vers3")
    SKIP_COMP ("coding_bc3x4")
    SKIP_COMP ("speech_vers4")
    SKIP_COMP ("coding_bc3x5")
    SKIP_COMP ("speech_vers5")
    SET_COMP ("compress",         COMP_NO)
    SET_COMP ("structure",        STRC_SERV_DATA_INTEG)
    SET_COMP ("duplex",           DUPLEX_FULL)
    SET_COMP ("config",           CONF_POINT_TO_POINT)
    SET_COMP ("nirr",             NIRR_NO_MEANING)
    SET_COMP ("establish",        ESTAB_DEMAND)
    SET_COMP ("access_ident",     AI_OCT_ID)
    SET_COMP ("rate_adapt",       RA_NONE)
    SET_COMP ("sig_access_prot",  SIAP_I440)
    SET_COMP ("l1_ident",         L1_OCT_ID)
    SET_COMP ("user_inf_l1_prot", L1_DEFAULT)
    SET_COMP ("sync_async",       ASYNCHRONOUS)
    SET_COMP ("num_stop",         NSTOP_2)
    SET_COMP ("negotiate",        NEGOTIATE_NO)
    SET_COMP ("num_data",         NDATA_8)
    SET_COMP ("user_rate",        UR_9_6_KBIT)
    SET_COMP ("intermed_rate",    IR_16_KBIT)
    SET_COMP ("nic_tx",           NIC_TX_NO)
    SET_COMP ("nic_rx",           NIC_RX_NO)
    SET_COMP ("parity",           PARITY_NONE)
    SET_COMP ("conn_elem",        CE_RLP_PREF)
    SET_COMP ("modem_type",       MT_V32)
    SKIP_COMP ("modem_type_2")
    SKIP_COMP ("fnur")
    SKIP_COMP ("acc")
    SKIP_COMP ("mTch")
    SKIP_COMP ("uimi")
    SKIP_COMP ("waiur")
    SKIP_COMP ("l2_ident")

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```

        SKIP_COMP ("user_inf_l2_prot")
ENDSTRUCT

BEGIN_MSTRUCT ("facility", FACILITY_A)
SET_COMP ("fac", FACILITY_A_6)
ENDSTRUCT

BEGIN_MSTRUCT ("ss_version",                SS_VERS_3)
        SET_COMP ("ver",                SS_VERS_3_ARRAY)
ENDSTRUCT

/* cc_cause (CC cause) */

BEGIN_MSTRUCT ("cc_cause",                CC_CAUSE_BEARER_CAP_AUTH)
        SET_COMP ("cs",                CS_GSM_PLMN)
        SET_COMP ("loc",                LOC_USER)
        SKIP_COMP ("rec")
        SET_COMP ("cause",                CAUSE_BEARER_CAP_AUTHORIZ)
        SKIP_COMP ("diag")
ENDSTRUCT

BEGIN_MSTRUCT ("cc_cause",                CC_CAUSE_UNSPECIFIED)
        SET_COMP ("cs",                CS_GSM_PLMN)
        SET_COMP ("loc",                LOC_USER)
        SKIP_COMP ("rec")
        SET_COMP ("cause",                CAUSE_UNSPECIFIED)
        SKIP_COMP ("diag")
ENDSTRUCT

BEGIN_MSTRUCT ("cc_cause",                CC_CAUSE_TEMP_FAIL)
        SET_COMP ("cs",                CS_GSM_PLMN)
        SET_COMP ("loc",                LOC_PUB_NET_LOCAL_USER)
        SKIP_COMP ("rec")
        SET_COMP ("cause",                CAUSE_TEMP_FAIL)
        SKIP_COMP ("diag")
ENDSTRUCT

BEGINARRAY (CC_DIAG_CAUSE_MT, 1) B_STATUS ENDARRAY

BEGIN_MSTRUCT ("cc_cause",                CC_CAUSE_MSG_B_STATUS)
        SET_COMP ("cs",                CS_GSM_PLMN)
        SET_COMP ("loc",                LOC_USER)
        SKIP_COMP ("rec")
        SET_COMP ("cause",                CAUSE_MESSAGE_TYPE_INCOMPAT)
        SET_COMP ("diag",                CC_DIAG_CAUSE_MT)
ENDSTRUCT

BEGIN_MSTRUCT ("cc_cause",                CC_CAUSE_MSG_B_STATUS_2)
        SET_COMP ("cs",                CS_GSM_PLMN)
        SET_COMP ("loc",                LOC_USER)
        SKIP_COMP ("rec")
        SET_COMP ("cause",                CAUSE_MESSAGE_INCOMPAT)

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```

        SET_COMP ("diag",          CC_DIAG_CAUSE_MT)
ENDSTRUCT

BEGINARRAY (CC_PROCEED_CAUSE_MT, 1) D_CALL_PROCEED ENDARRAY

BEGIN_MSTRUCT ("cc_cause",          CC_CAUSE_MSG_D_CALL_PROCEED)
    SET_COMP ("cs",          CS_GSM_PLMN)
    SET_COMP ("loc",          LOC_USER)
    SKIP_COMP ("rec")
    SET_COMP ("cause",          CAUSE_MESSAGE_TYPE_INCOMPAT)
    SET_COMP ("diag",          CC_PROCEED_CAUSE_MT)
ENDSTRUCT

BEGINARRAY (CC_ALERT_CAUSE_MT, 1) D_ALERT ENDARRAY

BEGIN_MSTRUCT ("cc_cause",          CC_CAUSE_MSG_D_ALERT)
    SET_COMP ("cs",          CS_GSM_PLMN)
    SET_COMP ("loc",          LOC_USER)
    SKIP_COMP ("rec")
    SET_COMP ("cause",          CAUSE_MESSAGE_TYPE_INCOMPAT)
    SET_COMP ("diag",          CC_ALERT_CAUSE_MT)
ENDSTRUCT

BEGIN_MSTRUCT ("cc_cause",          CC_CAUSE_INVALID_TI)
    SET_COMP ("cs",          CS_GSM_PLMN)
    SET_COMP ("loc",          LOC_USER)
    SKIP_COMP ("rec")
    SET_COMP ("cause",          CAUSE_INVALID_TI)
    SKIP_COMP ("diag")
ENDSTRUCT

BEGIN_MSTRUCT ("cc_cause",          CC_CAUSE_USER_BUSY)
    SET_COMP ("cs",          CS_GSM_PLMN)
    SET_COMP ("loc",          LOC_USER)
    SKIP_COMP ("rec")
    SET_COMP ("cause",          CAUSE_USER_BUSY)
    SKIP_COMP ("diag")
ENDSTRUCT

BEGIN_MSTRUCT ("cc_cause",          CC_CAUSE_CALL_REJECT)
    SET_COMP ("cs",          CS_GSM_PLMN)
    SET_COMP ("loc",          LOC_USER)
    SKIP_COMP ("rec")
    SET_COMP ("cause",          CAUSE_CALL_REJECT)
    SKIP_COMP ("diag")
ENDSTRUCT

BEGIN_MSTRUCT ("cc_cause",          CC_CAUSE_INCOMPAT)
    SET_COMP ("cs",          CS_GSM_PLMN)
    SET_COMP ("loc",          LOC_USER)
    SKIP_COMP ("rec")
    SET_COMP ("cause",          CAUSE_INCOMPAT_DEST)

```

```
        SKIP_COMP ("diag")
ENDSTRUCT
BEGINARRAY (CC_TIMER_303, 3) 0x33, 0x30, 0x33 ENDARRAY
BEGIN_MSTRUCT ("cc_cause",          CC_CAUSE_TIMER_303)
    SET_COMP ("cs",          CS_GSM_PLMN)
    SET_COMP ("loc",         LOC_USER)
    SKIP_COMP ("rec")
    SET_COMP ("cause",       CAUSE_TIMER)
    SET_COMP ("diag",        CC_TIMER_303)
ENDSTRUCT
BEGINARRAY (CC_TIMER_310, 3) 0x33, 0x31, 0x30 ENDARRAY
BEGIN_MSTRUCT ("cc_cause",          CC_CAUSE_TIMER_310)
    SET_COMP ("cs",          CS_GSM_PLMN)
    SET_COMP ("loc",         LOC_USER)
    SKIP_COMP ("rec")
    SET_COMP ("cause",       CAUSE_TIMER)
    SET_COMP ("diag",        CC_TIMER_310)
ENDSTRUCT
BEGINARRAY (CC_TIMER_313, 3) 0x33, 0x31, 0x33 ENDARRAY
BEGIN_MSTRUCT ("cc_cause",          CC_CAUSE_TIMER_313)
    SET_COMP ("cs",          CS_GSM_PLMN)
    SET_COMP ("loc",         LOC_USER)
    SKIP_COMP ("rec")
    SET_COMP ("cause",       CAUSE_TIMER)
    SET_COMP ("diag",        CC_TIMER_313)
ENDSTRUCT
BEGINARRAY (CC_TIMER_323, 3) 0x33, 0x32, 0x33 ENDARRAY
BEGIN_MSTRUCT ("cc_cause",          CC_CAUSE_TIMER_323)
    SET_COMP ("cs",          CS_GSM_PLMN)
    SET_COMP ("loc",         LOC_USER)
    SKIP_COMP ("rec")
    SET_COMP ("cause",       CAUSE_TIMER)
    SET_COMP ("diag",        CC_TIMER_323)
ENDSTRUCT
BEGINARRAY (CC_TIMER_332, 3) 0x33, 0x33, 0x32 ENDARRAY
BEGIN_MSTRUCT ("cc_cause",          CC_CAUSE_TIMER_332)
    SET_COMP ("cs",          CS_GSM_PLMN)
    SET_COMP ("loc",         LOC_USER)
    SKIP_COMP ("rec")
    SET_COMP ("cause",       CAUSE_TIMER)
    SET_COMP ("diag",        CC_TIMER_332)
ENDSTRUCT
BEGINARRAY (CC_TIMER_335, 3) 0x33, 0x33, 0x35 ENDARRAY
```

```

BEGIN_MSTRUCT ( "cc_cause",                CC_CAUSE_TIMER_335 )
    SET_COMP ( "cs",                        CS_GSM_PLMN )
    SET_COMP ( "loc",                       LOC_USER )
    SKIP_COMP ( "rec" )
    SET_COMP ( "cause",                     CAUSE_TIMER )
    SET_COMP ( "diag",                      CC_TIMER_335 )
ENDSTRUCT

BEGIN_MSTRUCT ( "cc_cause",                CC_CAUSE_CCBS_TIMER_4 )
    SET_COMP ( "cs",                        CS_GSM_PLMN )
    SET_COMP ( "loc",                       LOC_USER )
    SKIP_COMP ( "rec" )
    SET_COMP ( "cause",                     CAUSE_TIMER )
    SET_COMP ( "diag",                      CC_TIMER_335 )
ENDSTRUCT

BEGIN_MSTRUCT ( "cc_cause",                CC_CAUSE_CHAN_UNACCEPT )
    SET_COMP ( "cs",                        CS_GSM_PLMN )
    SET_COMP ( "loc",                       LOC_USER )
    SKIP_COMP ( "rec" )
    SET_COMP ( "cause",                     CAUSE_CHAN_UNACCEPT )
    SKIP_COMP ( "diag" )
ENDSTRUCT

BEGIN_MSTRUCT ( "cc_cause",                CC_CAUSE_STATUS_ENQ )
    SET_COMP ( "cs",                        CS_GSM_PLMN )
    SET_COMP ( "loc",                       LOC_USER )
    SKIP_COMP ( "rec" )
    SET_COMP ( "cause",                     CAUSE_STATUS_ENQUIRY )
    SKIP_COMP ( "diag" )
ENDSTRUCT

/* call_state (Call state) */

BEGIN_MSTRUCT ( "call_state",              CALL_STATE_CS_0 )
    SET_COMP ( "cs",                        CS_GSM_PLMN )
    SET_COMP ( "state",                     CS_0 )
ENDSTRUCT

/* call_state (Call state) (VK, 24-june-1997) */

BEGIN_MSTRUCT ( "call_state",              CALL_STATE_CS_3 )
    SET_COMP ( "cs",                        CS_GSM_PLMN )
    SET_COMP ( "state",                     CS_3 )
ENDSTRUCT

BEGIN_MSTRUCT ( "call_state",              CALL_STATE_CS_4 )
    SET_COMP ( "cs",                        CS_GSM_PLMN )
    SET_COMP ( "state",                     CS_4 )
ENDSTRUCT

```

```

BEGIN_MSTRUCT ( "call_state",                CALL_STATE_CS_9 )
    SET_COMP ( "cs",                CS_GSM_PLMN )
    SET_COMP ( "state",            CS_9 )
ENDSTRUCT

BEGIN_MSTRUCT ( "call_state",                CALL_STATE_CS_10 )
    SET_COMP ( "cs",                CS_GSM_PLMN )
    SET_COMP ( "state",            CS_10 )
ENDSTRUCT

BEGIN_MSTRUCT ( "call_state",                CALL_STATE_CS_26 )
    SET_COMP ( "cs",                CS_GSM_PLMN )
    SET_COMP ( "state",            CS_26 )
ENDSTRUCT

/* call_ctrl_cap (Call Control capabilities) */
BEGIN_MSTRUCT ( "allowed_actions", ALLOWED_ACTIONS_CCBS_ON )
    SET_COMP ( "ccbs_act",            CCBS_YES )
ENDSTRUCT

BEGIN_MSTRUCT ( "recall_type", RECALL_TYPE_CCBS )
    SET_COMP ( "rcl_type",            CCBS )
ENDSTRUCT

BEGIN_MSTRUCT ( "notific", NOTIFIC_USER_SUSPEND )
    SET_COMP ( "nd",                ND_USER_SUSPEND )
ENDSTRUCT

BEGIN_MSTRUCT ( "notific", NOTIFIC_USED_RESUME )
    SET_COMP ( "nd",                ND_USED_RESUME )
ENDSTRUCT

BEGIN_MSTRUCT ( "notific", NOTIFIC_BEARER_CHANGE )
    SET_COMP ( "nd",                ND_BEARER_CHANGE )
ENDSTRUCT

/* progress (Progress indicator) */
BEGIN_MSTRUCT ( "progress", PROGRESS_INBAND_AVAIL )                /* VK 29-JUL-97
*/
    SET_COMP ( "cs",                CS_GSM_PLMN )                /* VK 29-JUL-97
*/
    SET_COMP ( "loc",                LOC_USER )                    /* VK 29-JUL-97
*/
    SET_COMP ( "progress_desc",      PROG_INBAND_AVAIL )          /* VK 29-JUL-97
*/
ENDSTRUCT

BEGIN_MSTRUCT ( "setup_cont", SETUP_CONT_SPEECH_FR_HR_EFR )
    SET_COMP ( "setup_msg", SETUP_CONT_SPEECH_FR_HR_EFR_15 )
ENDSTRUCT
BEGIN_MSTRUCT ( "setup_cont", SETUP_CONT_SPEECH_FR )

```

```
        SET_COMP ("setup_msg", SETUP_CONT_SPEECH_FR_13)
ENDSTRUCT
/* USER_A */
BEGIN_MSTRUCT ("user_user", USER_A)
    SET_COMP ("pd", PD_5)
    SET_COMP ("info", USER_A_4)
ENDSTRUCT
```

### 3 TEST CASES

#### 3.1 Routing (internal)

##### 3.1.1 CC000: Setup the routing and PCO view for the CC test

**Description:** Routings for the CC tests are set.

**Preamble:** None

MM	RR	PL/DL
COMMAND (TAP RESET)		
COMMAND (MMI RESET)		
COMMAND (CC RESET)		
COMMAND (MM RESET)		
COMMAND (PL RESET)		
COMMAND (TAP REDIRECT CLEAR)		
COMMAND (CC REDIRECT CLEAR)		
COMMAND (MMI REDIRECT CC NULL)		
COMMAND (CC REDIRECT MMI TAP)		
COMMAND (CC REDIRECT MM TAP)		
COMMAND (TAP REDIRECT TAP CC)		

#### Parametrization

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

History:	04-Jul-97	PZ	Initial
	06 March 2001	MLP	Copied from GSM ETS
	06 July 2001	JHU	Converted to TAP2
	22-Aug-01	SBK	Removed obsolete commands to speed

up

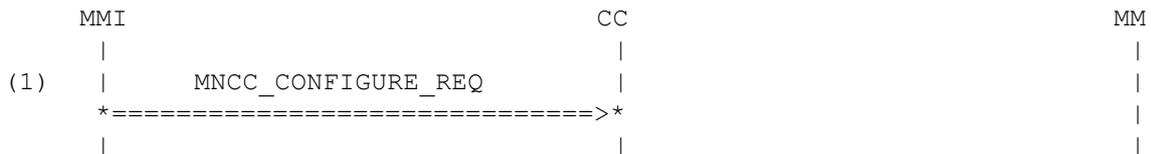
### 3.2 Basic Preambles

#### 3.2.1 CC001: Configuration of connection element

**Description:** CC is configured for the connection element for MTCs to be transparent (Variant A) or both, transparent preferred.

**Variants:** <A>..<B>

**Preamble:** CC000



#### Parametrization

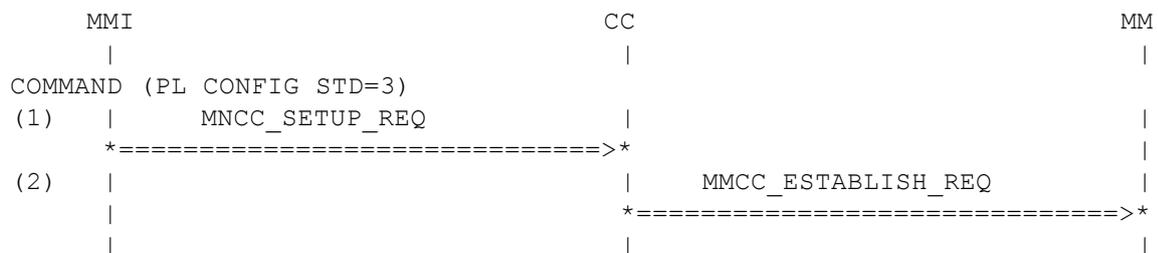
Primitive	Parameter	Value
(1) MNCC_CONFIGURE_REQ	called_party_sub	NOT_USED
<A>	bcpara	BC_PARA_BS21_T_300
<B>	bcpara	BC_PARA_BS21_BTP_300
<A>	sns_mode	SNS_MODE_DATA
<B>	sns_mode	SNS_MODE_DATA
	ctm_ena	CTM_DISABLED
History:	22-Aug-2001	SBK Initial
	18-Mar-2002	HM Bearer cap parameter instead bearer caps
	02-Dec-2002	FK Parameter 'ctm_ena' added

### 3.3 Call Establishment: Mobile Originated Call

#### 3.3.1 CC011: Establish Mobile Originated Call - Data (U0)

**Description:** Upon receiving a MNCC-SETUP request primitive from MMI CC forwards a MMCC-ESTABLISH request primitive to MM, starts the T303 timer and enters the state MO CONNECTION PENDING (U0.1). (Ref. [1] 5.2.1.2)

**Preamble:** CC000



#### Parametrization

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

## (1) MNCC\_SETUP\_REQ

ti	TI_MO_5
prio	PRIO_NORM_CALL
ri	NOT_PRESENT_8BIT
bcpara	BC_PARA_BS21_T_300
bcpara2	BC_PARA_NO_SERVICE
called_party	CLED_PARTY_654321
called_party_sub	CLED_PARTY_SUB_NONE
clir_sup	NOT_PRESENT_8BIT
fac_inf	NOT_USED

## (2) MMCC\_ESTABLISH\_REQ

ti	TI_MO_5
estcs	ESTCS_MOB_ORIG_DATA

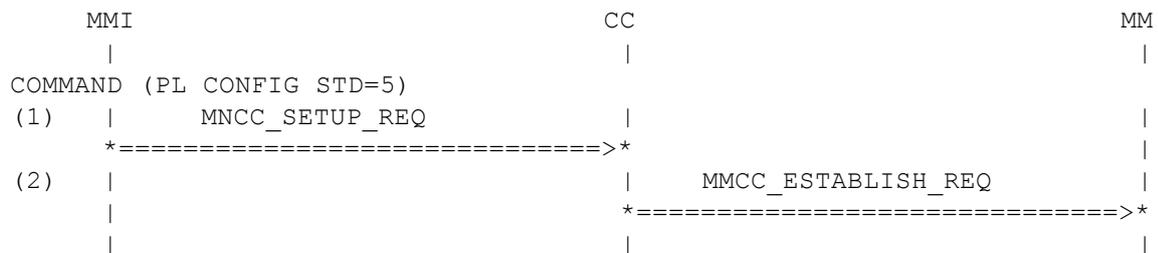
History:	25-Apr-97	DL	Initial
	23-Jun-97	VK	MNCC_SETUP_REQ parameter revised
	27-Jul-98	LE	adapted to PCS 1900
	27-Jun-00	HM	establish cause not indicating HR
support	05-Jul-01	JHU	Converted to TAP2

### 3.3.2 CC012: Establish Mobile Originated Call – Speech (U0)

**Description:** Upon receiving a MNCC-SETUP request primitive from MMI CC forwards a MMCC-ESTABLISH request primitive to MM, starts the T303 timer and enters the state MO CONNECTION PENDING (U0.1). (Ref. [1] 5.2.1.2). Speech Codec support for Enhanced Fullrate.

**Variants:** <A>....<F>

**Preamble:** CC000



#### Parametrization

Primitive	Parameter	Value
(1) MNCC_SETUP_REQ	ti	TI_MO_5
	<A> prio	PRIO_NORM_CALL
	<B> prio	PRIO_EMERG_CALL
	<C> prio	PRIO_NORM_CALL
	<D> prio	PRIO_NORM_CALL
	<E> prio	PRIO_EMERG_CALL
	<F> prio	PRIO_NORM_CALL
	<A> ri	NOT_PRESENT_8BIT
	<B> bcpara	BC_PARA_SPEECH
	<C> bcpara	BC_PARA_SPEECH
	<D> bcpara	BC_PARA_SPEECH_LINE_2
	<E> bcpara	BC_PARA_SPEECH_CTM
	<F> bcpara	BC_PARA_SPEECH_CTM
	<F> bcpara	BC_PARA_SPEECH_LINE_2_CTM
	<F> bcpara2	BC_PARA_NO_SERVICE
	<F> called_party	CLED_PARTY_654321
	<F> called_party_sub	CLED_PARTY_SUB_NONE
	<F> clir_sup	NOT_PRESENT_8BIT
	<F> fac_inf	NOT_USED
(2) MMCC_ESTABLISH_REQ	ti	TI_MO_5
	<A> estcs	ESTCS_MOB_ORIG_SPCH
	<B> estcs	ESTCS_EMERGE
	<C> estcs	ESTCS_MOB_ORIG_SPCH
	<D> estcs	ESTCS_MOB_ORIG_SPCH
	<E> estcs	ESTCS_EMERGE
	<F> estcs	ESTCS_MOB_ORIG_SPCH

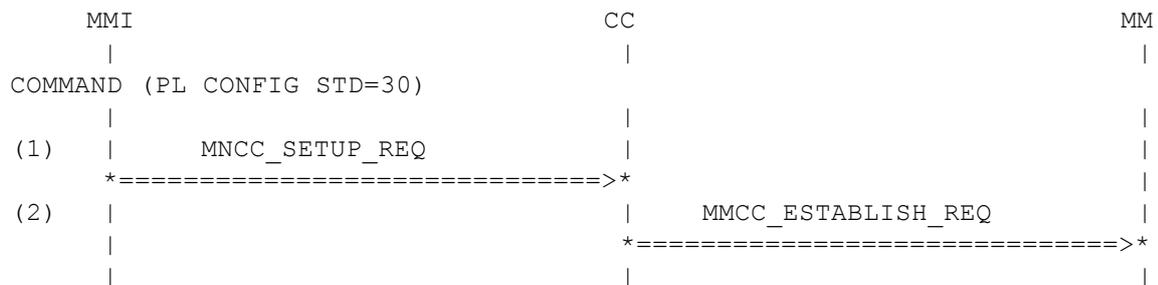
History:	25-Apr-97	DL	Initial
	27-Jul-98	LE	adapted to fax & data
	05-Jul-01	JHU	Converted to TAP2
	12-Jul-02	HM	ESTCS_EMERGE for emergency call
	05-Dec-2002	FK	Variants for CTM added

### 3.3.3 CC013: Establish Mobile Originated Call – Speech (U0)

**Description:** Upon receiving a MNCC-SETUP request primitive from MMI CC forwards a MMCC-ESTABLISH request primitive to MM, starts the T303 timer and enters the state MO CONNECTION PENDING (U0.1). (Ref. [1] 5.2.1.2). Speech Codec support for AMR.

**Variants:** <A>....<B>

**Preamble:** CC000



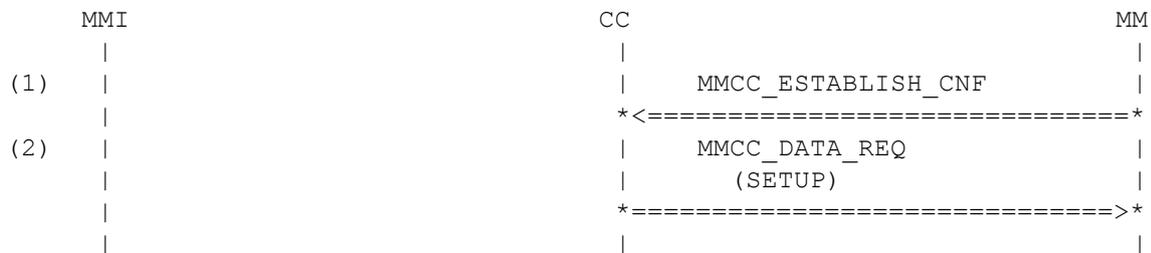
#### Parametrization

Primitive	Parameter	Value	
(1) MNCC_SETUP_REQ	ti	TI_MO_5	
	prio	PRIO_NORM_CALL	
	ri	NOT_PRESENT_8BIT	
	<A> bcpara	BC_PARA_SPEECH	
	<B> bcpara	BC_PARA_SPEECH_CTM	
	bcpara2	BC_PARA_NO_SERVICE	
	called_party	CLED_PARTY_654321	
	called_party_sub	CLED_PARTY_SUB_NONE	
	clir_sup	NOT_PRESENT_8BIT	
fac_inf	NOT_USED		
(2) MMCC_ESTABLISH_REQ	ti	TI_MO_5	
	estcs	ESTCS_MOB_ORIG_SPCH	
History:	25-Apr-97	DL	Initial
	27-Jul-98	LE	adapted to fax & data
	05-Jul-01	JHU	Converted to TAP2
	11-Jun-02	HM	std=30 instead of std=8
	05-Dec-2002	FK	Variants for CTM added

### 3.3.4 CC021: MM connection established for basic call – data (U0.1)

**Description:** MM signals CC in the form of a MMCC-ESTABLISH confirmation primitive that a connection has been successfully established. CC issues a MMCC-DATA request primitive and enters the state CALL INIT (U1). (Ref. [1] 5.n.n.n)

**Preamble:** CC011



#### Parametrization

	Primitive	Parameter	Value
(1)	MMCC_ESTABLISH_CNF	ti	TI_MO_5
(2)	MMCC_DATA_REQ	d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	U_SETUP
		ti	TI_MO_5
		repeat	NOT_USED
		bearer_cap	BC_BS21_T_300
		bearer_cap_2	NOT_USED
		facility	NOT_USED
		calling_subaddr	NOT_USED
		ul_called_num	UL_CLED_NUM_654321
		called_subaddr	NOT_USED
		repeat_2	NOT_USED
		low_layer_comp	NOT_USED
		low_layer_comp_2	NOT_USED
		repeat_3	NOT_USED
		high_layer_comp	NOT_USED
		high_layer_comp_2	NOT_USED
		user_user	NOT_USED
		ss_version	NOT_USED
		clir_suppr	NOT_USED
		clir_invoc	NOT_USED
		call_ctrl_cap	CALL_CTRL_CAP_1
		}	

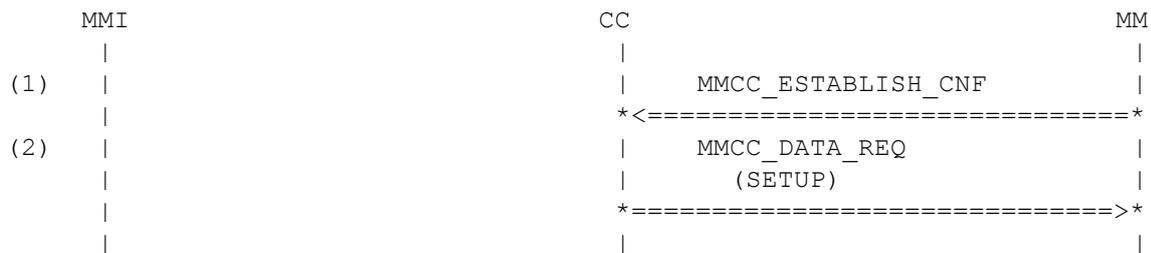
History:	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	27-Jul-98	LE	adapted to fax & data
	05-Jul-01	JHU	Converted to TAP2

### 3.3.5 CC022: MM connection established – basic call – speech (U0.1)

**Description:** MM signals CC in the form of a MMCC-ESTABLISH confirmation primitive that a connection has been successfully established. CC issues a MMCC-DATA request primitive and enters the state CALL INIT (U1). (Ref. [1] 5.n.n.n)

**Variants:** <A>....<D>

**Preamble:**  
 <A> CC012A  
 <B> CC013A  
 <C> CC012D  
 <D> CC013B



**Parametrization**

Primitive	Parameter	Value	
(1) MMCC_ESTABLISH_CNF	ti	TI_MO_5	
(2) MMCC_DATA_REQ	d1	NOT_USED	
	d2	NOT_USED	
	sdu		
	{		
	component	CC	
	direction	UPLINK	
	pd	U_SETUP	
	ti	TI_MO_5	
	repeat	FORBID	
	<A>	bearer_cap	BC_SPEECH_FR
	<B>	bearer_cap	BC_SPEECH_AMR_EFR_HR_FR
	<C>	bearer_cap	BC_SPEECH_FR_CTM
	<D>	bearer_cap	
	BC_SPEECH_AMR_EFR_HR_FR_CTM	bearer_cap_2	FORBID
		facility	NOT_USED
		calling_subaddr	NOT_USED
		ul_called_num	UL_CLED_NUM_654321
	called_subaddr	NOT_USED	
	repeat_2	NOT_USED	
	low_layer_comp	NOT_USED	
	low_layer_comp_2	NOT_USED	
	repeat_3	NOT_USED	

high_layer_comp	NOT_USED
high_layer_comp_2	NOT_USED
user_user	NOT_USED
ss_version	NOT_USED
clir_suppr	NOT_USED
clir_invoc	NOT_USED
call_ctrl_cap	CALL_CTRL_CAP_1
}	

History:	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	27-Jul-98	LE	adapted to fax and data
	06 March 2001	MLP	Copied from GSM ETS
	05-Jul-01	JHU	Converted to TAP2
	26-Nov-01	OT	Variant <A>...<B> introduced,
second			one for AMR
	05-Dec-2002	FK	Variants for CTM added

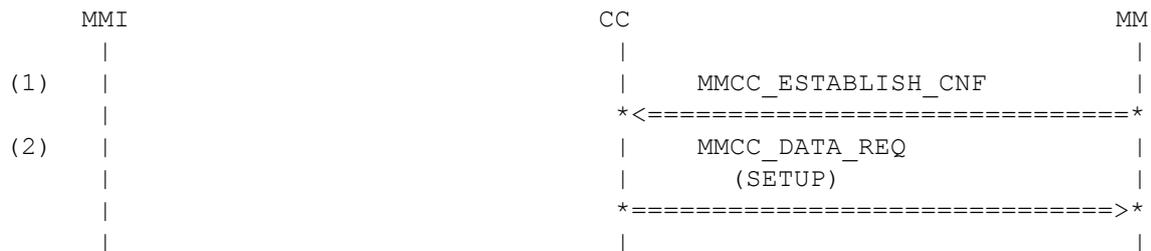
### 3.3.6 CC023: MM connection established – basic call – speech line 2(U0.1)

**Description:** MM signals CC in the form of a MMCC-ESTABLISH confirmation primitive that a connection has been successfully established. CC issues a MMCC-DATA request primitive and enters the state CALL INIT (U1). (Ref. [1] 5.n.n.n)

**Variants:** <A>....<B>

**Preamble:**

<A> CC012C  
 <B> CC012F



**Parametrization**

Primitive	Parameter	Value
(1) MMCC_ESTABLISH_CNF	ti	TI_MO_5
(2) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_SETUP
	ti	TI_MO_5
	repeat	FORBID
	<A> bearer_cap	BC_AUX_SPEECH_FR
	<B> bearer_cap	BC_AUX_SPEECH_FR_CTM
	bearer_cap_2	FORBID
	facility	NOT_USED
	calling_subaddr	NOT_USED
	ul_called_num	UL_CLED_NUM_654321
	called_subaddr	NOT_USED
	repeat_2	NOT_USED
	low_layer_comp	NOT_USED
	low_layer_comp_2	NOT_USED
	repeat_3	NOT_USED
	high_layer_comp	NOT_USED
	high_layer_comp_2	NOT_USED
user_user	NOT_USED	
ss_version	NOT_USED	

```
clir_suppr      NOT_USED
clir_invoc      NOT_USED
call_ctrl_cap   CALL_CTRL_CAP_1
}
```

History:	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	27-Jul-98	LE	adapted to fax and data
	05-Jul-01	JHU	Converted to TAP2
	05-Dec-2002	FK	Variants for CTM added

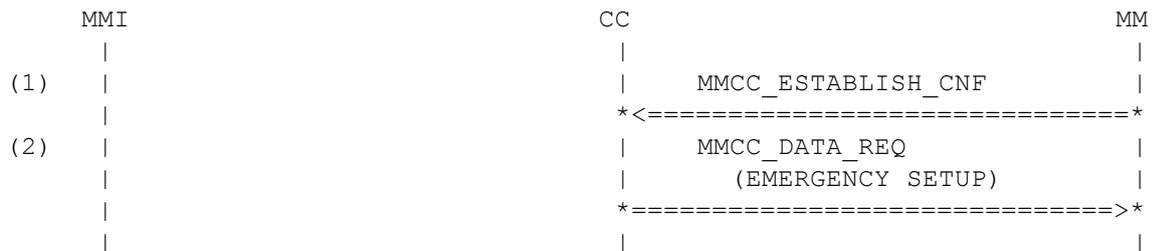
### 3.3.7 CC024: MM connection established – emergency speech call (U0.1)

**Description:** MM signals CC in the form of a MMCC-ESTABLISH confirmation primitive that a connection has been successfully established. CC issues a MMCC-DATA request primitive and enters the state CALL INIT (U1). (Ref. [1] 5.n.n.n)

**Variants:** <A>....<B>

**Preamble:**

<A> CC012B  
 <B> CC012E



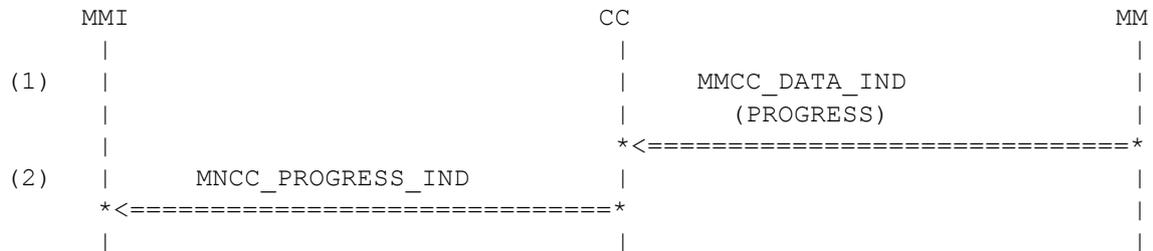
**Parametrization**

Primitive	Parameter	Value
(1) MMCC_ESTABLISH_CNF	ti	TI_MO_5
(2) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_EMERGE_SETUP
	ti	TI_MO_5
<A>	bearer_cap	NOT_USED
<B>	bearer_cap	BC_SPEECH_FR_CTM
	}	
History:	01-Apr-97	DL Initial
	27-Jun-97	VK bearer_cap NOT_USED
	04-Aug-97	VK d1,d2 added
	27-Jul-98	LE adapted to fax & data
	06 March 2001	MLP Copied from GSM ETS
	05-Jul-01	JHU Converted to TAP2
	05-Dec-2002	FK Variants for CTM added

### 3.3.8 CC025: PROGRESS message received (U1)

**Description:** While in the state CALL INIT (U1) CC receives a PROGRESS message in the form of a MNCC-DATA request primitive. CC sgends a MNCC-PROGRESS indication primitive to MMI. (Ref. [1] 5.4.3.2)

**Preamble:** CC024A



**Parametrization**

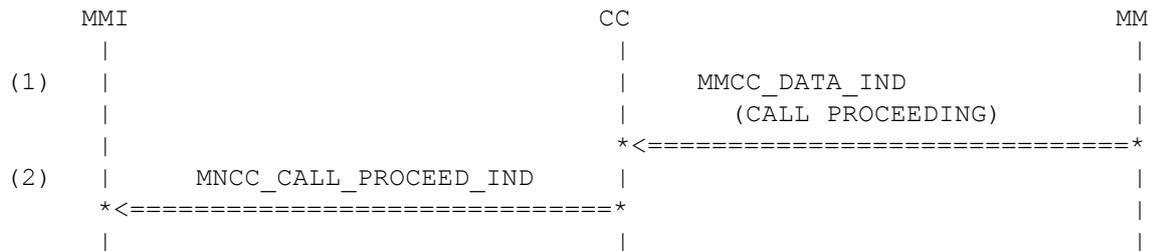
Primitive	Parameter	Value	
(1) MMCC_DATA_IND	d1	NOT_USED	
	d2	NOT_USED	
	sdu		
	{		
	component	CC	
	direction	DOWNLINK	
	pd	D_PROGRESS	
	ti	TI_MO_5_RESP	
	progress	PROG_1	
	user_user	NOT_USED	
	}		
(2) MNCC_PROGRESS_IND	ti	TI_MO_5	
	progress_desc	PROG_END_TO_END_PLMN	
History:	25-Apr-97	DL	Initial
	30-Jun-97	VK	new is: PROG_1in MMCC_DATA_IND
	30-Jun-97	VK	Preamble is CC024 (was CC011A)
	01-Jul-97	VK	PROGRESS_IND params revised
	04-Aug-97	VK	d1,d2 added
	27-Jul-98	LE	adapted to fax & data
	05-Jul-01	JHU	Converted to TAP2
05-Dec-2002	HM	Number of preamble changed	

### 3.3.9 CC026: CALL PROCEEDING message received – speech (U1)

**Description:** While in the state CALL INIT (U1) CC receives a CALL PROCEEDING message as part of a MMCC-DATA indication primitive in response to a SETUP message. CC then issues a MNCC-CALL-PROCEED indication primitive and enters the state MO CALL PROCEEDING (U3). (Ref. [1] 5.2.1.3)

**Variants:** <A>....<B>

**Preamble:** <A>CC022A  
<B>CC022B



**Parametrization**

Primitive	Parameter	Value	
(1) MMCC_DATA_IND	d1	NOT_USED	
	d2	NOT_USED	
	sdu		
	{		
	component	CC	
	direction	DOWNLINK	
	pd	D_CALL_PROCEED	
	ti	TI_MO_5_RESP	
	repeat	NOT_USED	
	bearer_cap	NOT_USED	
	bearer_cap_2	NOT_USED	
	facility	NOT_USED	
	progress	PROG_1	
	}		
(2) MNCC_CALL_PROCEED_IND	ti	TI_MO_5	
	progress_desc	PROG_END_TO_END_PLMN	
	ri	NOT_PRESENT_8BIT	
	bcpara	BC_PARA_SPEECH	
	bcpara2	BC_PARA_NO_SERVICE	
History:	25-Apr-97	DL	Initial
	01-Jul-97	VK	Preamble is CC022 (was CC026 !!!)
	01-Jul-97	VK	'repeat' is NOT_USED
	01-Jul-97	VK	'progress' renamed to

'progress_desc'	01-Jul-97	VK	'fac_inf' introduced
	01-Jul-97	VK	'serv1' assigned SERV_SPEECH
	04-Aug-97	VK	d1,d2 added
	27-Jul-98	LE	adapted to fax & data
	06 March 2001	MLP	Copied from GSM ETS
	05-Jul-01	JHU	Converted to TAP2
	26-Nov-01	OT	Variant <A>...<B> introduced,
second			one for AMR.

### 3.3.10 CC054: CALL PROCEEDING message received – data (U1)

**Description:** While in the state CALL INIT (U1) CC receives a CALL PROCEEDING message as part of a MMCC-DATA indication primitive in response to a SETUP message. CC then issues a MNCC-CALL-PROCEED indication primitive and enters the state MO CALL PROCEEDING (U3). (Ref. [1] 5.2.1.3)

**Preamble:** CC021

	MMI		CC		MM
(1)				MMCC_DATA_IND	
				(CALL PROCEEDING)	
				*<=====*	
(2)		MNCC_CALL_PROCEED_IND			
		*<=====*			

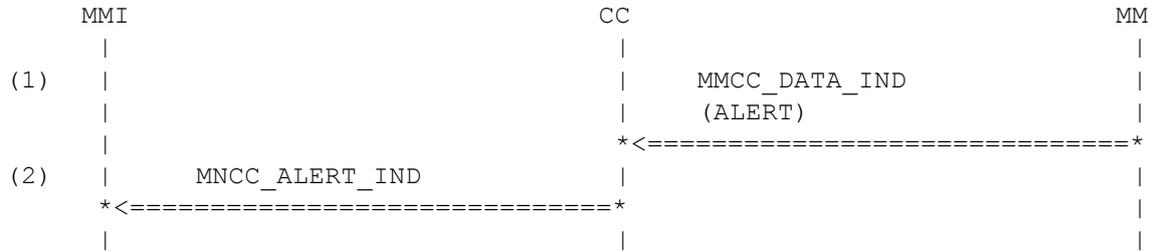
#### Parametrization

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>	
(1) MMCC_DATA_IND	d1	NOT_USED	
	d2	NOT_USED	
	sdu		
	{		
	component	CC	
	direction	DOWNLINK	
	pd	D_CALL_PROCEED	
	ti	TI_MO_5_RESP	
	repeat	NOT_USED	
	bearer_cap	NOT_USED	
	bearer_cap_2	NOT_USED	
	facility	NOT_USED	
	progress	PROG_1	
	}		
(2) MNCC_CALL_PROCEED_IND	ti	TI_MO_5	
	progress_desc	PROG_END_TO_END_PLMN	
	ri	NOT_PRESENT_8BIT	
	bcpara	BC_PARA_BS21_T_300	
	bcpara2	BC_PARA_NO_SERVICE	
History:	27-Jul-98	LE	initial
	05-Jul-01	JHU	Converted to TAP2

### 3.3.11 CC027: ALERT message received (U1)

**Description:** CC receives an ALERT message as part of a MMCC-DATA indication primitive in response to a SETUP message. CC then stops the T303 timer, enters the state CALL DELIVERED (U4) and issues a MNCC-ALERT indication primitive. (Ref. [1] 5.2.1.5)

**Preamble:** CC021



**Parametrization**

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_ALERT
	ti	TI_MO_5_RESP
	facility	NOT_USED
	progress	PROG_1
	user_user	NOT_USED
	}	
(2) MNCC_ALERT_IND	ti	TI_MO_5
	progress_desc	PROG_END_TO_END_PLMN

History:	25-Apr-97	DL	Initial
	01-Jul-97	VK	ALERT_IND params revised
	04-Aug-97	VK	d1,d2 added
	27-Jul-98	LE	adapted to fax & data
	05-Jul-01	JHU	Converted to TAP2

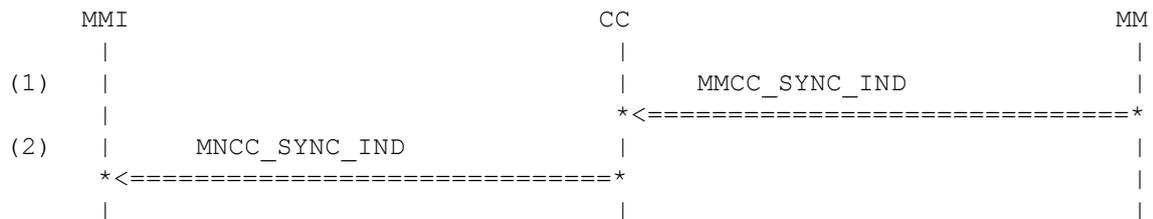
### 3.3.12 CC028: (GSM )TCH assignment from network during call establishment (U1)

**Description:** While in the state CALL INIT (U1) CC receives a traffic channel (TCH) assignment in the form of a MMCC-SYNC indication primitive. CC sends a MNCC-SYNC indication primitive to MMI. (Ref. [1] 5.5.2.2.7)

**SHOULD PREABLE BE CC021 ?**

**NOT SUPPORTED FOR UMTS**

**Preamble:** CC022A



**Parametrization**

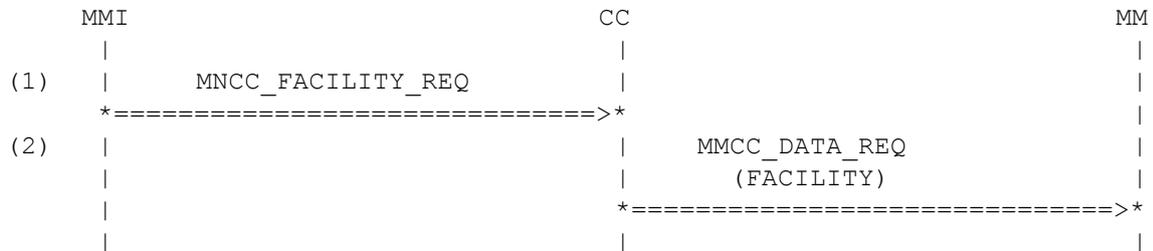
Primitive	Parameter	Value
(1) MMCC_SYNC_IND	ti	TI_MO_5
	chm	CH_SIG_ONLY
(2) MNCC_SYNC_IND	ti	TI_MO_5
	cause	MNCC_CAUSE_CHANNEL_SYNC
	chm	CH_SIG_ONLY

History:	Date	Author	Description
	25-Apr-97	DL	Initial
	01-Jul-97	VK	'cause' and 'mode' introduced
	01-Jul-97	VK	use MNCC.DOC constants
	27-Jul-98	LE	adapted to fax & data
	19-Jul-99	LE	CH_SIG_ONLY used
	06 March 2001	MLP	Copied from GSM ETS
	05-Jul-01	JHU	Converted to TAP2
	26-Nov-01	OT	Variant CC022A instead of CC022

### 3.3.13 CC029: Facility information element sent to network (U1)

**Description:** CC receives a MNCC-FACILITY request primitive from MMI. CC builds a FACILITY message and sends this as part of a MMCC-DATA request primitive to MM. (Ref. [1] 5.?.?)

**Preamble:** CC021



**Parametrization**

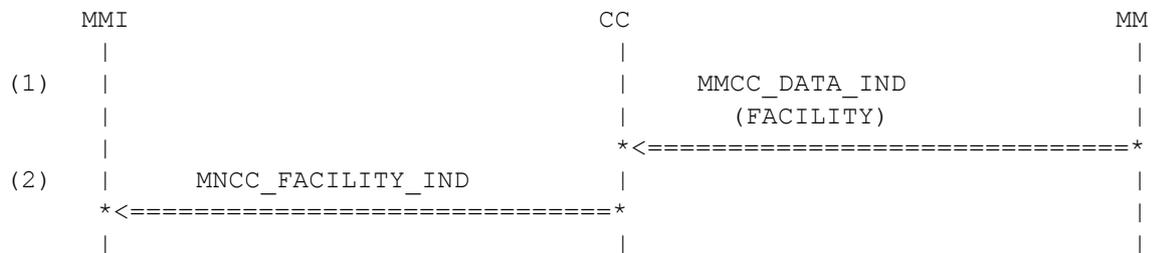
Primitive	Parameter	Value
(1) MNCC_FACILITY_REQ	ti	TI_MO_5
	fac_inf	FACILITY_A_FAC
	ss_version	NOT_USED
(2) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_FACILITY
	ti	TI_MO_5
	facility	FACILITY_A
	ss_version	NOT_USED
	}	

History:	Date	Author	Change
	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	11-Nov-97	LE	revised
	27-Jul-98	LE	adapted to fax & data
	05-Jul-01	JHU	Converted to TAP2

### 3.3.14 CC030: Facility information element received from network (U1)

**Description:** CC receives a FACILITY message from the network as part of a MMCC-DATA indication primitive. CC informs MMI by issuing a MNCC-FACILITY indication primitive.

**Preamble:** CC021



**Parametrization**

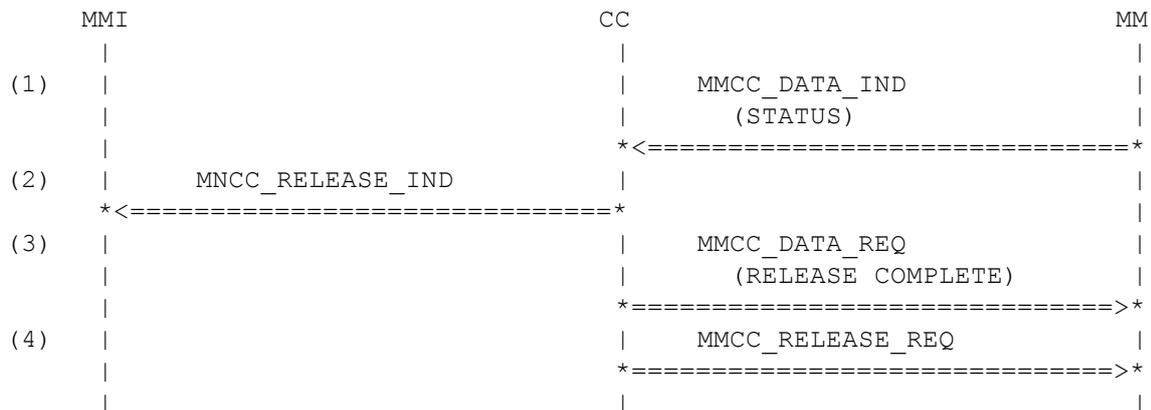
Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_FACILITY
	ti	TI_MO_5_RESP
	facility	FACILITY_A
	}	
(2) MNCC_FACILITY_IND	ti	TI_MO_5
	fac_context	FAC_IN_FACILITY
	fac_inf	FACILITY_A_FAC

History:	Date	Author	Change
	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	11-Nov-97	LE	revised
	27-Jul-98	LE	adapted to fax & data
	05-Jul-01	JHU	Converted to TAP2

### 3.3.15 CC031: STATUS message with different call state received from network (U1)

**Description:** CC receives a STATUS message from the network in the form of a MMCC-ESTABLISH indication primitive while in the state CALL INIT (U1). The call state in the message received is not identical to the current call state of CC, whereby CC immediately issues a message as part of a MMCC-DATA request primitive followed by a MMCC-RELEASE request primitive.

**Preamble:** CC021



#### Parametrization

Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	B_STATUS
	ti	TI_MO_5_RESP
	cc_cause	CC_CAUSE_UNSPECIFIED
	call_state	CALL_STATE_CS_9
	aux_states	NOT_USED
	}	
	(2) MNCC_RELEASE_IND	ti
cause		
MNCC_CAUSE_MS_MESSAGE_INCOMPAT		
(3) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK

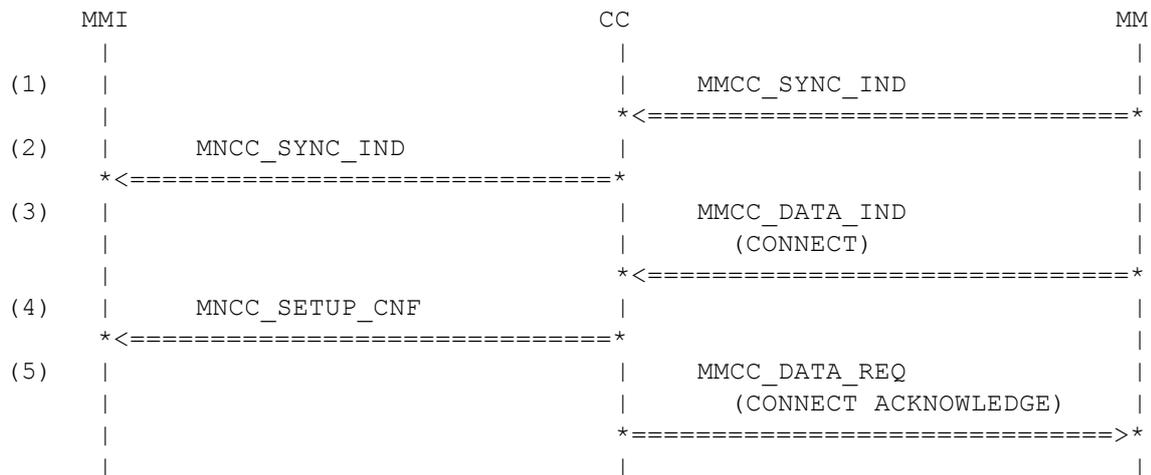
	pd	U_RELEASE_COMP
	ti	TI_MO_5
	cc_cause	CC_CAUSE_MSG_B_STATUS_2
	facility	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	}	
( 4 )	MMCC_RELEASE_REQ	
	ti	TI_MO_5

History:	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	06-Nov-97	LE	revised
	27-Jul-98	LE	adapted to fax & data
	05-Jul-01	JHU	Converted to TAP2

### 3.3.16 CC032: CONNECT message received – speech (U1)

**Description:** While in the state CALL INIT (U1) CC receives a CONNECT message as part of a MMCC-DATA indication primitive in response to a SETUP message. CC then stops the T303 timer, enters the state ACTIVE (U10) and issues a MNCC-SETUP confirmation primitive to MMI and a CONNECT ACKNOWLEDGE message as part of a MMCC-DATA request primitive to MM. (Ref. [1] 5.2.1.6)

**Preamble:** CC022A



#### Parametrization

Primitive	Parameter	Value
(1) MMCC_SYNC_IND	ti	TI_MO_5
	chm	CH_SPEECH_FULL
(2) MNCC_SYNC_IND	ti	TI_MO_5
	cause	MNCC_CAUSE_CHANNEL_SYNC
	chm	CH_SPEECH_FULL
(3) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_CONNECT
	ti	TI_MO_5_RESP
	facility	NOT_USED
	progress	PROG_1
	connect_num	CONNECT_NUM_654321
	connect_subaddr	NOT_USED
	user_user	NOT_USED
}		

( 4 ) MNCC\_SETUP\_CNF

ti	TI_MO_5
cause	MNCC_CAUSE_SUCCESS
progress_desc	PROG_END_TO_END_PLMN
connected_number	CONNECTED_NUMBER_654321
connected_number_sub	NOT_USED

( 5 ) MMCC\_DATA\_REQ

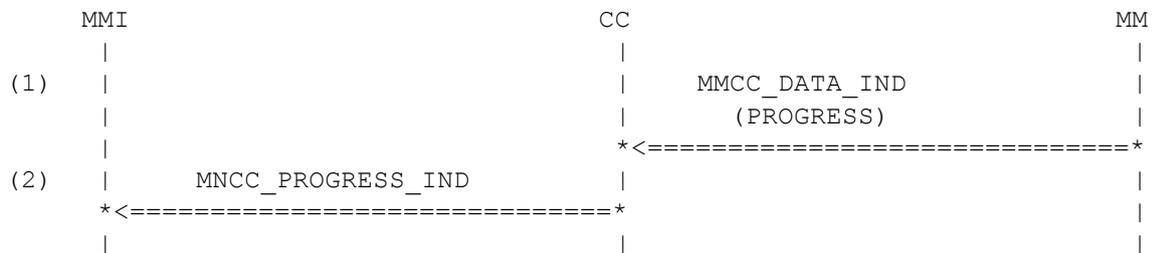
d1	NOT_USED
d2	NOT_USED
sdu	
{	
component	CC
direction	UPLINK
pd	B_CONNECT_ACK
ti	TI_MO_5
}	

History:	25-Apr-97	DL	Initial
	03-Jul-97	VK	MNCC_SETUP_CNF revised
	04.-Aug-97	VK	d1,d2 added
	27-Jul-98	LE	adapted to fax & data
	12-Oct-00	HM	TCH assignment before CONNECT
	05-Jul-01	JHU	Converted to TAP2
	26-Nov-01	OT	Variant CC022A instead of CC022

### 3.3.17 CC033: PROGRESS message received (U3)

**Description:** While in the state MO CALL PROCEEDING (U3) CC receives a PROGRESS message in the form of a MNCC-DATA request primitive. CC sends a MNCC-PROGRESS indication primitive to MMI. (Ref. [1] 5.4.3.2)

**Preamble:** CC026A



**Parametrization**

Primitive	Parameter	Value	
(1) MMCC_DATA_IND	d1	NOT_USED	
	d2	NOT_USED	
	sdu		
	{		
	component	CC	
	direction	DOWNLINK	
	pd	D_PROGRESS	
	ti	TI_MO_5_RESP	
	progress	PROG_1	
	user_user	NOT_USED	
	}		
(2) MNCC_PROGRESS_IND	ti	TI_MO_5	
	progress_desc	PROG_END_TO_END_PLMN	
History:	25-Apr-97	DL	Initial
	03-Jul-97	VK	'progress' in D_PROGRESS
	03-Jul-97	VK	PROGRESS_IND params. revised
	04-Aug-97	VK	d1,d2 added
	27-Jul-98	LE	adapted to fax & data
	05-Jul-01	JHU	Converted to TAP2
	26-Nov-01	OT	Variant CC026A instead of CC026
introduced			

### 3.3.18 CC034: CALL PROCEEDING message received (U3)

**Description:** CC receives a CALL PROCEEDING message as part of a MMCC-DATA indication primitive in response to a SETUP message. CC then builds a status message with cause set to CC\_CAUSE\_MSG\_INCOMPAT and sends this as part of a MNCC-DATA request primitive. (Ref. [1] 5.2.1.3)

**Preamble:** CC026A

MMI	CC	MM
(1)		
	MMCC_DATA_IND	
	(CALL PROCEEDING)	
	*<=====*	
(2)	MMCC_DATA_REQ	
	(STATUS)	
	*=====*>	

#### Parametrization

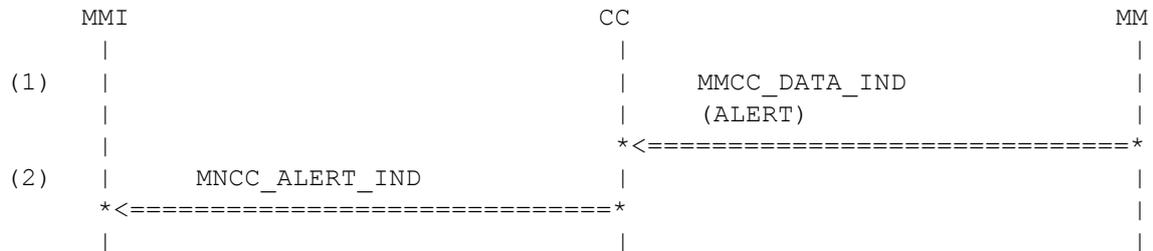
<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_CALL_PROCEED
	ti	TI_MO_5_RESP
	repeat	NOT_USED
	bearer_cap	NOT_USED
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	}	
	(2) MMCC_DATA_REQ	d1
d2		NOT_USED
sdu		
{		
component		CC
direction		DOWNLINK
pd		B_STATUS
ti		TI_MO_5
cc_cause		
CC_CAUSE_MSG_D_CALL_PROCEED		
call_state		CALL_STATE_CS_3
aux_states	NOT_USED	
}		

History:	25-Apr-97	DL	Initial
	03-Jul-97	VK	repeat set to NOT_USED
	03-Jul-97	VK	Preamble is CC026 (was CC021)
	03-Jul-97	VK	cc_cause revised
	04-Jul-97	VK	aux_states revised
	04-Aug-97	VK	d1,d2 added
	27-Jul-98	LE	adapted to fax & data
	05-Jul-01	JHU	Converted to TAP2
	26-Nov-01	OT	Variant CC026A instead of CC026

### 3.3.19 CC035: ALERT message received (U3)

**Description:** CC receives an ALERT message as part of a MMCC-DATA indication primitive in response to a SETUP message. CC then stops the T303 timer, enters the state CALL DELIVERED (U4) and issues a MNCC-ALERT indication primitive. (Ref. [1] 5.2.1.5)

**Preamble:** CC026A



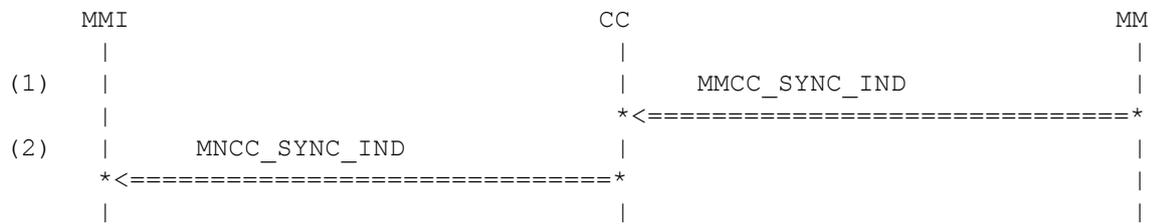
#### Parametrization

Primitive	Parameter	Value	
(1) MMCC_DATA_IND	d1	NOT_USED	
	d2	NOT_USED	
	sdu		
	{		
	component	CC	
	direction	DOWNLINK	
	pd	D_ALERT	
	ti	TI_MO_5_RESP	
	facility	NOT_USED	
	progress	PROG_1	
	user_user	NOT_USED	
	}		
(2) MNCC_ALERT_IND	ti	TI_MO_5	
	progress_desc	PROG_END_TO_END_PLMN	
History:	25-Apr-97	DL	Initial
	03-Jul-97	VK	MNCC_ALERT_IND params revised
	04-Aug97	VK	d1,d2 added
	27-Jul-98	LE	adapted to fax & data
	05-Jul-01	JHU	Converted to TAP2
	26-Nov-01	OT	Variant CC026A instead of CC026

### 3.3.20 CC036: TCH assignment from network during call establishment (U3)

**Description:** While in the state CALL MO CALL PROCEEDING (U3) CC receives a traffic channel (TCH) assignment in the form of a MMCC-SYNC indication primitive. CC sends a MNCC-SYNC indication primitive to MMI. (Ref. [1] 5.5.2.2.7)

**Preamble:** CC026A



**Parametrization**

Primitive	Parameter	Value
(1) MMCC_SYNC_IND	ti	TI_MO_5
	chm	CH_SPEECH_FULL
(2) MNCC_SYNC_IND	ti	TI_MO_5
	cause	MNCC_CAUSE_CHANNEL_SYNC
	chm	CH_SPEECH_FULL

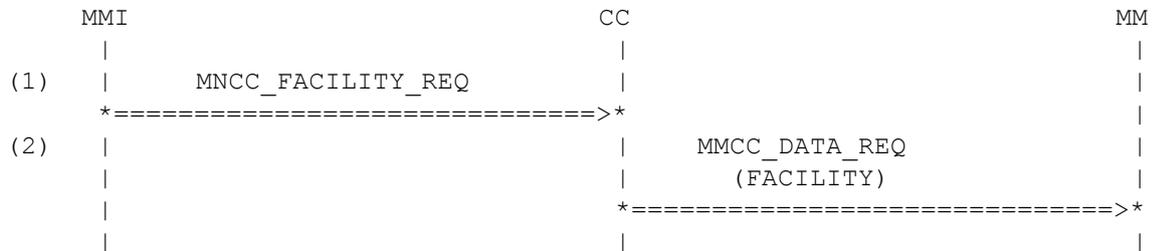
**History:**

25-Apr-97	DL	Initial
03-Jul-97	VK	MNCC_SYNC_IND params revised
27-Jul-98	LE	adapted to fax & data
05-Jul-01	JHU	Converted to TAP2
26-Nov-01	OT	Variant CC026A instead of CC026

### 3.3.21 CC037: Facility information element sent to network (U3)

**Description:** CC receives a MNCC-FACILITY request primitive from MMI. CC builds a FACILITY message and sends this as part of a MMCC-DATA request primitive to MM. (Ref. [1] 5.?.?)

**Preamble:** CC026A



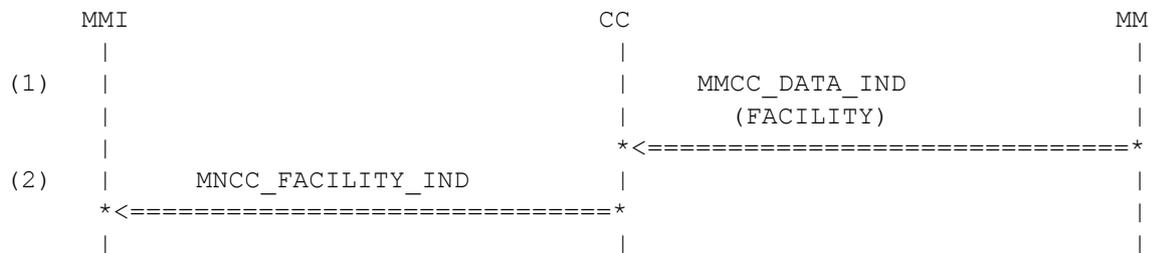
**Parametrization**

Primitive	Parameter	Value	
(1) MNCC_FACILITY_REQ	ti	TI_MO_5	
	fac_inf	FACILITY_A_FAC	
	ss_version	NOT_USED	
(2) MMCC_DATA_REQ	d1	NOT_USED	
	d2	NOT_USED	
	sdu		
	{		
	component	CC	
	direction	UPLINK	
	pd	U_FACILITY	
	ti	TI_MO_5	
	facility	FACILITY_A	
	ss_version	NOT_USED	
	}		
History:	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	11-Nov-97	LE	revised
	27-Jul-98	LE	adapted to fax & data
	05-Jul-01	JHU	Converted to TAP2
	26-Nov-01	OT	Variant CC026A instead of CC026

### 3.3.22 CC038: Facility information element received from network (U3)

**Description:** CC receives a FACILITY message from the network as part of a MMCC-DATA indication primitive. CC informs MMI by issuing a MNCC-FACILITY indication primitive.

**Preamble:** CC026A



#### Parametrization

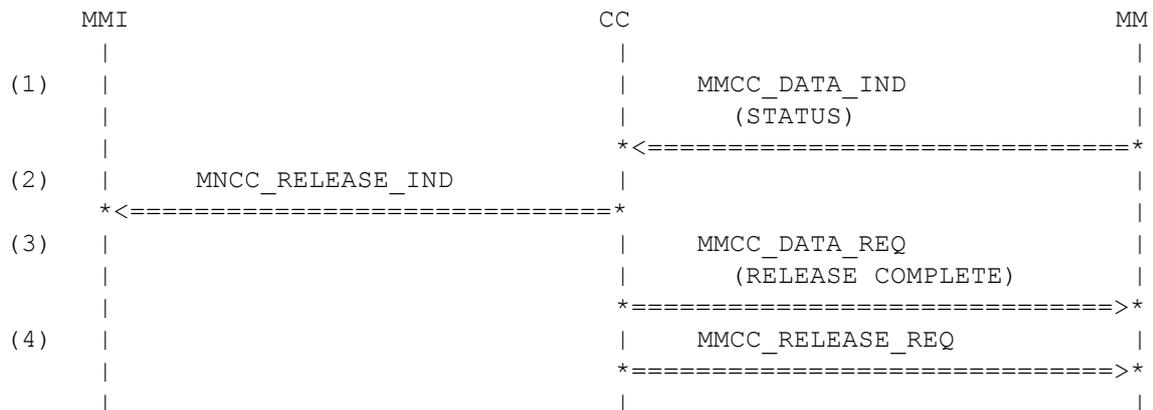
Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_FACILITY
	ti	TI_MO_5_RESP
	facility	FACILITY_A
	}	
(2) MNCC_FACILITY_IND	ti	TI_MO_5
	fac_context	FAC_IN_FACILITY
	fac_inf	FACILITY_A_FAC

History:	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	11-Nov-97	LE	revised
	27-Jul-98	LE	adapted to fax & data
	05-Jul-01	JHU	Converted to TAP2
	26-Nov-01	OT	Variant CC026A instead of CC026

### 3.3.23 CC040: STATUS message with different call state received from network (U3)

**Description:** CC receives a STATUS message from the network in the form of a MMCC-DATA indication primitive while in the state CALL PROCEEDING (U3). The call state in the message received is not identical to the current call state of CC, whereby CC immediately issues a RELEASE COMPLETE message as part of a MMCC-DATA request primitive followed by a MMCC-RELEASE request primitive.

**Preamble:** CC026A



#### Parametrization

Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	B_STATUS
	ti	TI_MO_5_RESP
	cc_cause	CC_CAUSE_UNSPECIFIED
	call_state	CALL_STATE_CS_9
	aux_states	NOT_USED
	}	
	(2) MNCC_RELEASE_IND	ti
cause		
MNCC_CAUSE_MS_MESSAGE_INCOMPAT		
(3) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK

	pd	U_RELEASE_COMP
	ti	TI_MO_5
	cc_cause	CC_CAUSE_MSG_B_STATUS_2
	facility	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	}	
( 4 )	MMCC_RELEASE_REQ	
	ti	TI_MO_5

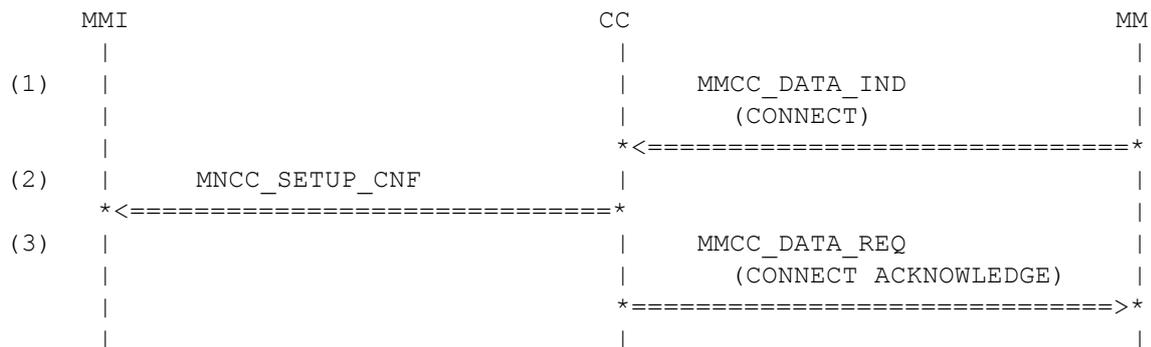
History:	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	05-Nov-97	LE	Revised
	27-Jul-98	LE	adapted to fax & data
	05-Jul-01	JHU	Converted to TAP2
	26-Nov-01	OT	Variant CC026A instead of CC026

### 3.3.24 CC041: CONNECT message received – speech (U3)

**Description:** While in the state MO CALL PROCEEDING (U3) CC receives a CONNECT message as part of a MMCC-DATA indication primitive in response to a SETUP message. CC then stops the T303 timer, enters the state ACTIVE (U10) and issues a MNCC-SETUP confirmation primitive to MMI and a CONNECT ACKNOWLEDGE message as part of a MMCC-DATA request primitive to MM. (Ref. [1] 5.2.1.6)

**Variants:** <A>....<B>

**Preamble:** <A>CC026A  
<B>CC026B



#### Parametrization

Primitive	Parameter	Value	
(1) MMCC_DATA_IND	d1	NOT_USED	
	d2	NOT_USED	
	sdu		
	{		
	component	CC	
	direction	DOWNLINK	
	pd	D_CONNECT	
	ti	TI_MO_5_RESP	
	facility	NOT_USED	
	progress	PROG_1	
	connect_num	CONNECT_NUM_654321	
	connect_subaddr	NOT_USED	
	user_user	NOT_USED	
	}		
	(2) MNCC_SETUP_CNF	ti	TI_MO_5
		cause	MNCC_CAUSE_SUCCESS
progress_desc		PROG_END_TO_END_PLMN	
connected_number		CONNECTED_NUMBER_654321	
connected_number_sub		NOT_USED	

(3) MMCC\_DATA\_REQ

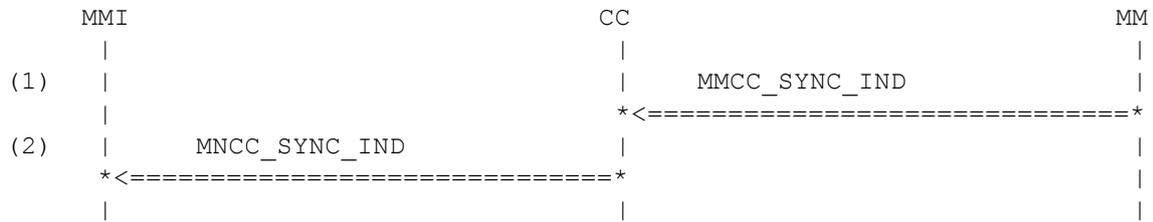
d1	NOT_USED
d2	NOT_USED
sdu	
{	
component	CC
direction	UPLINK
pd	B_CONNECT_ACK
ti	TI_MO_5
}	

History:	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	27-Jul-98	LE	adapted to fax & data
	05-Jul-01	JHU	Converted to TAP2
	26-Nov-01	OT	Variant <A>...<B> introduced,
second			one for AMR.

### 3.3.25 CC043: TCH assignment from network during call establishment (U3), data

**Description:** While in the state MO CALL PROCEEDING (U3) CC receives a traffic channel (TCH) assignment in the form of a MMCC-SYNC indication primitive. CC sends a MNCC-SYNC indication primitive to MMI. (Ref. [1] 5.5.2.2.7)

**Preamble:** CC054



**Parametrization**

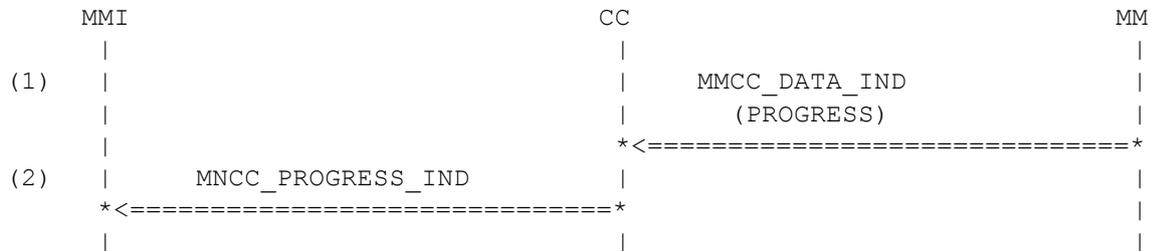
Primitive	Parameter	Value
(1) MMCC_SYNC_IND	ti	TI_MO_5
	chm	CH_DATA_9_6
(2) MNCC_SYNC_IND	ti	TI_MO_5
	cause	MNCC_CAUSE_CHANNEL_SYNC
	chm	CH_DATA_9_6

History:	Date	Author	Description
	25-Apr-97	DL	Initial
	04-Jul-97	VK	MNCC_SYNC_IND params revised
	27-Jul-98	LE	adapted to fax & data
	05-Jul-01	JHU	Converted to TAP2

### 3.3.26 CC044: PROGRESS message received (U4)

**Description:** While in the state MO CALL PROCEEDING (U3) CC receives a PROGRESS message in the form of a MNCC-DATA request primitive. CC sends a MNCC-PROGRESS indication primitive to MMI. (Ref. [1] 5.4.3.2)

**Preamble:** CC026A



#### Parametrization

Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_PROGRESS
	ti	TI_MO_5_RESP
	progress	PROG_1
	user_user	NOT_USED
	}	
(2) MNCC_PROGRESS_IND	ti	TI_MO_5
	progress_desc	PROG_END_TO_END_PLMN

History:	25-Apr-97	DL	Initial
	04-Jul-97	VK	PROG_1 introduced
	04-Jul-97	VK	PROGRESS_IND params revised
	04-Aug-97	VK	d1,d2 added
	27-Jul-98	LE	adapted to fax & data
	05-Jul-01	JHU	Converted to TAP2
	26-Nov-01	OT	Variant CC026A instead of CC026

### 3.3.27 CC045: CALL PROCEEDING message received (U4)

**Description:** CC receives a CALL PROCEEDING message as part of a MMCC-DATA indication primitive in response to a SETUP message. CC then builds a status message with cause set to CC\_CAUSE\_MSG\_INCOMPAT and sends this as part of a MNCC-DATA request primitive. (Ref. [1] 5.2.1.3)

**Preamble:** CC027

MMI	CC	MM
(1)		
	MMCC_DATA_IND	
	(CALL PROCEEDING)	
	*<=====*	
(2)	MMCC_DATA_REQ	
	(STATUS)	
	*=====*>	

#### Parametrization

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_CALL_PROCEED
	ti	TI_MO_5_RESP
	repeat	NOT_USED
	bearer_cap	NOT_USED
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	}	
	(2) MMCC_DATA_REQ	d1
d2		NOT_USED
sdu		
{		
component		CC
direction		DOWNLINK
pd		B_STATUS
ti		TI_MO_5
cc_cause		
CC_CAUSE_MSG_D_CALL_PROCEED		
call_state		CALL_STATE_CS_4
aux_states	NOT_USED	
}		

History:	25-Apr-97	DL	Initial
	04-Jul-97	VK	'repeat' takes on 'NOT_USED'
	04-Jul-97	VK	...REQ cc_cause parameter revised
	04-Aug-97	VK	MNCC_DATA_REQ renamed to ...
	04-Aug-97	VK	d1,d2 added
	27-Jul-98	LE	adapted to fax & data
	05-Jul-01	JHU	Converted to TAP2

### 3.3.28 CC046: ALERT message received (U4)

**Description:** CC receives an ALERT message as part of a MMCC-DATA indication primitive in response to a SETUP message. CC then builds a status message with cause set to CC\_CAUSE\_MSG\_INCOMPAT and sends this as part of a MNCC-DATA request primitive.. (Ref. [1] 5.2.1.5)

**Preamble:** CC027

```

      MMI                                     CC                                     MM
      |                                     |                                     |
(1)  |                                     |   MMCC_DATA_IND   |
      |                                     |   (ALERT)       |
      |                                     | *<===== *
(2)  |                                     |   MMCC_DATA_REQ   |
      |                                     |   (STATUS)      |
      |                                     | *===== >*
      |                                     |

```

#### Parametrization

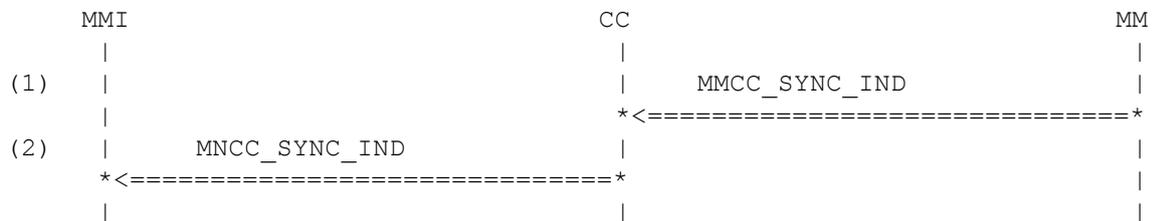
Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_ALERT
	ti	TI_MO_5_RESP
	facility	NOT_USED
	progress	PROG_1
	user_user	NOT_USED
	}	
	(2) MMCC_DATA_REQ	d1
d2		NOT_USED
sdu		
{		
component		CC
direction		DOWNLINK
pd		B_STATUS
ti		TI_MO_5
cc_cause		CC_CAUSE_MSG_D_ALERT
call_state		CALL_STATE_CS_4
aux_states		NOT_USED
}		

History:	25-Apr-97	DL	Initial
	04-Jul-97	VK	new : CC_CAUSE_MSG_D_ALERT
	04-Jul-97	VK	'aux_states' assigned 'NOT_USED'
	04-Aug-97	VK	MNCC_DATA_REQ renamed to ...
	04-Aug-97	VK	d1,d2 added
	27-Jul-98	LE	adapted to fax & data
	05-Jul-01	JHU	Converted to TAP2

### 3.3.29 CC047: TCH assignment from network during call establishment (U4)

**Description:** While in the state CALL DELIVERED (U4) CC receives a traffic channel (TCH) assignment in the form of a MMCC-SYNC indication primitive. CC sends a MNCC-SYNC indication primitive to MMI. (Ref. [1] 5.5.2.2.7)

**Preamble:** CC027



**Parametrization**

Primitive	Parameter	Value
(1) MMCC_SYNC_IND	ti	TI_MO_5
	chm	CH_DATA_4_8
(2) MNCC_SYNC_IND	ti	TI_MO_5
	cause	MNCC_CAUSE_CHANNEL_SYNC
	chm	CH_DATA_4_8

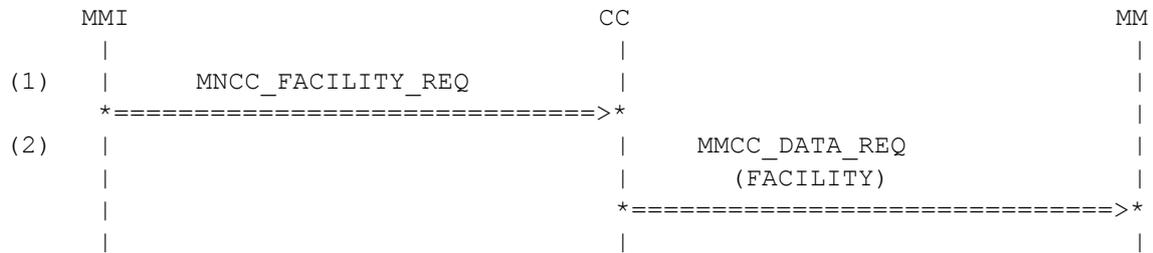
**History:**

25-Apr-97	DL	Initial
04-Jul-97	VK	MNCC_SYNC_IND params revised
27-Jul-98	LE	adapted to fax & data
05-Jul-01	JHU	Converted to TAP2

### 3.3.30 CC048: Facility information element sent to network (U4)

**Description:** CC receives a MNCC-FACILITY request primitive from MMI. CC builds a FACILITY message and sends this as part of a MNCC-DATA request primitive to MM.

**Preamble:** CC027



**Parametrization**

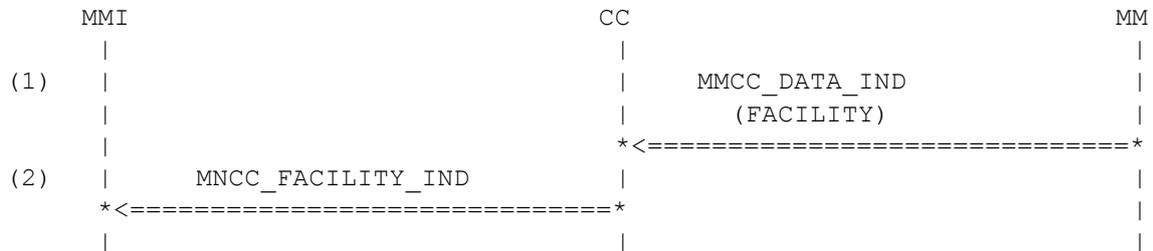
Primitive	Parameter	Value
(1) MNCC_FACILITY_REQ	ti	TI_MO_5
	fac_inf	FACILITY_A_FAC
	ss_version	NOT_USED
(2) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_FACILITY
	ti	TI_MO_5
	facility	FACILITY_A
	ss_version	NOT_USED
	}	

History:	Date	Author	Change
	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	11-Nov-97	LE	revised
	27-Jul-98	LE	adapted to fax & data
	05-Jul-01	JHU	Converted to TAP2

### 3.3.31 CC049: Facility information element received from network (U4)

**Description:** CC receives a FACILITY message from the network as part of a MMCC-DATA indication primitive. CC informs MMI by issuing a MNCC-FACILITY indication primitive.

**Preamble:** CC027



**Parametrization**

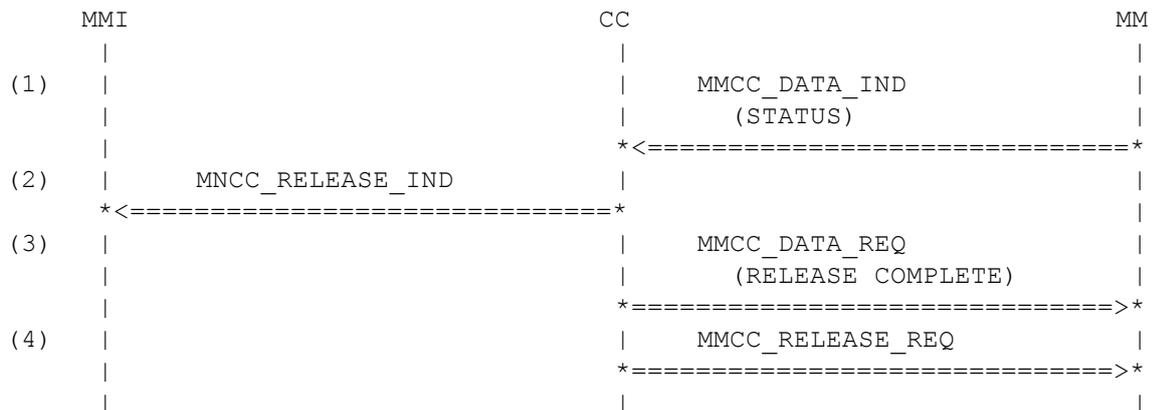
Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_FACILITY
	ti	TI_MO_5_RESP
	facility	FACILITY_A
	}	
(2) MNCC_FACILITY_IND	ti	TI_MO_5
	fac_context	FAC_IN_FACILITY
	fac_inf	FACILITY_A_FAC

History:	Date	Author	Change
	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	11-Nov-97	LE	revised
	27-Jul-98	LE	adapted to fax & data
	05-Jul-01	JHU	Converted to TAP2

### 3.3.32 CC051: STATUS message with different call state received from network (U4)

**Description:** CC receives a STATUS message from the network in the form of a MMCC-DATA indication primitive while in the state CALL INIT (U4). The call state in the message received is not identical to the current call state of CC, whereby CC immediately issues a RELEASE COMPLETE message as part of a MMCC-DATA request primitive followed by a MMCC-RELEASE request primitive.

**Preamble:** CC027



#### Parametrization

Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	B_STATUS
	ti	TI_MO_5_RESP
	cc_cause	CC_CAUSE_UNSPECIFIED
	call_state	CALL_STATE_CS_9
	aux_states	NOT_USED
	}	
	(2) MNCC_RELEASE_IND	ti
cause		
MNCC_CAUSE_MS_MESSAGE_INCOMPAT		
(3) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
direction	UPLINK	

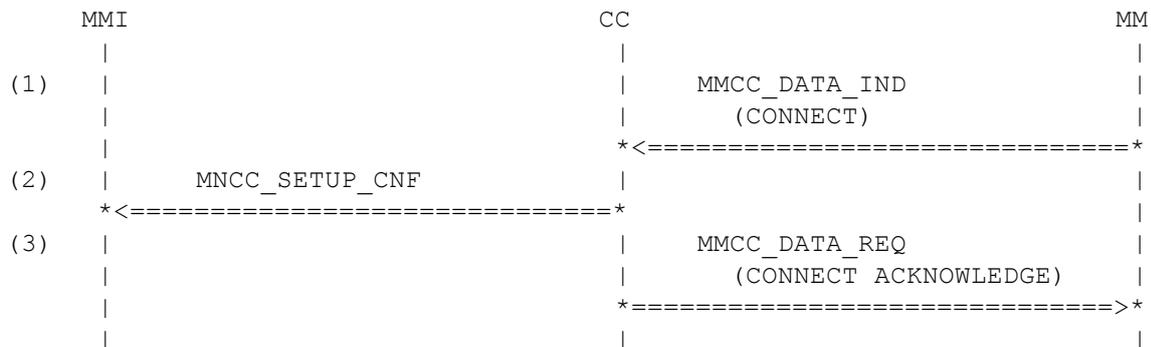
	pd	U_RELEASE_COMP
	ti	TI_MO_5
	cc_cause	CC_CAUSE_MSG_B_STATUS_2
	facility	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	}	
( 4 )	MMCC_RELEASE_REQ	
	ti	TI_MO_5

History:	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	05-Nov-97	LE	revised
	27-Jul-98	LE	adapted to fax & data
	05-Jul-01	JHU	Converted to TAP2

### 3.3.33 CC053: CONNECT message received – data (U4)

**Description:** While in the state CALL DELIVERED (U4) CC receives a CONNECT message as part of a MMCC-DATA indication primitive in response to a SETUP message. CC then stops the T303 timer, enters the state ACTIVE (U10) and issues a MNCC-SETUP confirmation primitive to MMI and a CONNECT ACKNOWLEDGE message as part of a MMCC-DATA request primitive to MM. (Ref. [1] 5.2.1.6)

**Preamble:** CC027



#### Parametrization

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_CONNECT
	ti	TI_MO_5_RESP
	facility	NOT_USED
	progress	PROG_1
	connect_num	CONNECT_NUM_654321
	connect_subaddr	NOT_USED
	user_user	NOT_USED
	}	
	(2) MNCC_SETUP_CNF	ti
cause		MNCC_CAUSE_SUCCESS
progress_desc		PROG_END_TO_END_PLMN
connected_number		CONNECTED_NUMBER_654321
connected_number_sub		NOT_USED
(3) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	}	

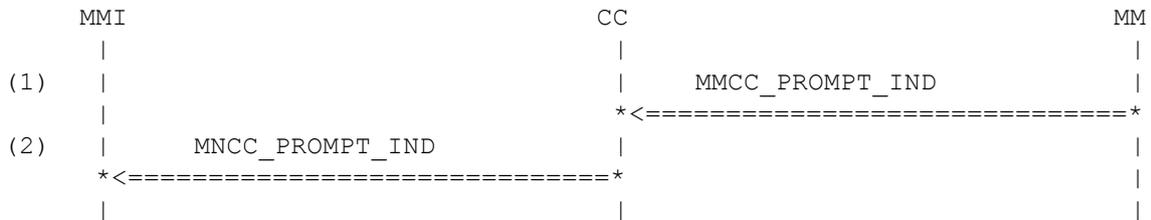
component	CC
direction	UPLINK
pd	B_CONNECT_ACK
ti	TI_MO_5
}	

History:	25-Apr-97	DL	Initial
	07-Jul-97	VK	MNCC_SETUP_CNF params revised
	04-Aug-97	VK	d1,d2 added
	27-Jul-98	LE	adapted to fax & data
	05-Jul-01	JHU	Converted to TAP2

### 3.3.34 CC060: CC receives MMCC\_PROMPT\_IND

**Description:** CC receives a MMCC\_PROMPT\_IND from the network. This primitive is forwarded transparently to the MMI without further CC action.

**Preamble:** CC000



#### Parametrization

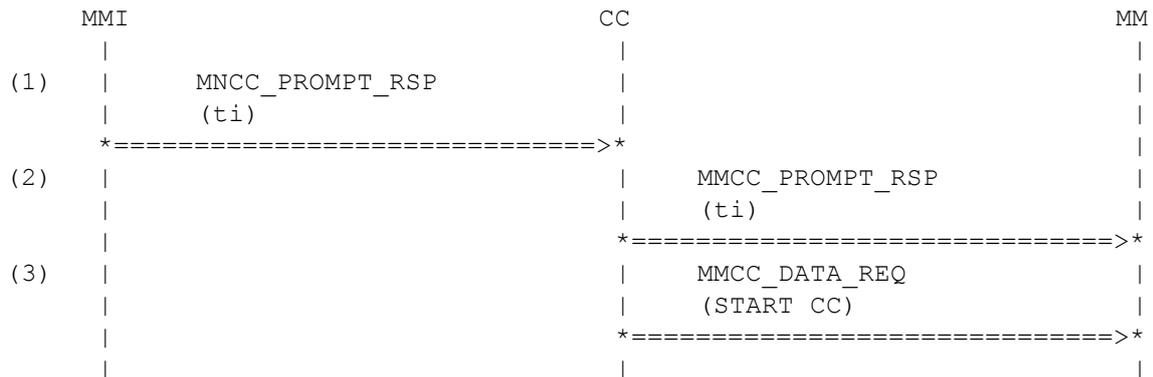
	<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1)	MMCC_PROMPT_IND		
(2)	MNCC_PROMPT_IND		

History:	Date	Author	Description
	28-Jan-00	HM	Initial
	05-Jul-01	JHU	Converted to TAP2

### 3.3.35 CC061: CC receives MNCC\_PROMPT\_RSP

Description: CC receives MNCC\_PROMPT\_RSP from the MMI. A mobile originated transaction identifier is assigned, MM is notified by MMCC\_PROMPT\_RSP. A START CC message is sent to the network with the primitive MMCC\_DATA\_REQ. CC waits in state U0.3 for further network information.

Preamble: CC060



#### Parametrization

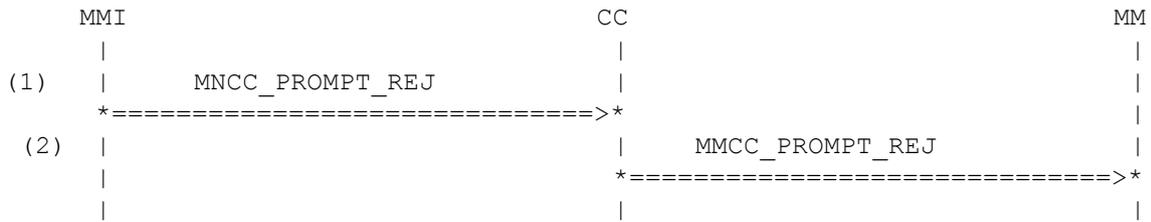
Primitive	Parameter	Value
(1) MNCC_PROMPT_RSP	ti	TI_MO_5
(2) MMCC_PROMPT_RSP	ti	TI_MO_5
(3) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_START_CC
	ti	TI_MO_5
	call_ctrl_cap	CALL_CTRL_CAP_1
	}	

History: 28-Jan-00 HM Initial  
 05-Jul-01 JHU Converted to TAP2

### 3.3.36 CC062: CC receives MNCC\_PROMPT\_REJ

Description: CC receives MNCC\_PROMPT\_REJ. This primitive is transparently forwarded to MM. By this primitive the MMI requests the rejection of the Network Initiated MO CM request e.g. due to a temporary lack of transaction identifiers.

Preamble: CC060



#### Parametrization

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

(1) MNCC\_PROMPT\_REJ

(2) MMCC\_PROMPT\_REJ

History:	31-Jan-00	HM	Initial
	05-Jul-01	JHU	Converted to TAP2

### 3.3.37 CC063: CC receives CC ESTABLISHMENT message, FR mobile only

**Description:** CC receives the CC ESTABLISHMENT message in state U.03. This causes emission of CC ESTABLISHMENT CONFIRMED message to the network and state transition to state U0.5. As the SETUP message provided by the SETUP container contains bearer capabilities for enhanced full rate, full rate and half rate codecs and the mobile only provides full rate speech version 1, the bearer caps are changed to the mobile's capabilities.

**Preamble:** CC061

	MMI		CC		MM
(1)					
				MMCC_DATA_IND	
				(CC ESTABLISHMENT)	
				*<=====*	
(2)				MMCC_DATA_REQ	
				(CC EST. CONFIRMED)	
				*=====*>	

#### Parametrization

	<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1)	MMCC_DATA_IND		
		d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	DOWNLINK
		pd	D_CC_ESTABLISHMENT
		ti	TI_MO_5_RESP
		setup_cont	SETUP_CONT_SPEECH_FR_HR_EFR
		}	
(2)	MMCC_DATA_REQ		
		d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	U_CC_EST_CONF
		ti	TI_MO_5
		repeat	NOT_USED
		bearer_cap	BC_SPEECH_FR
		bearer_cap_2	NOT_USED

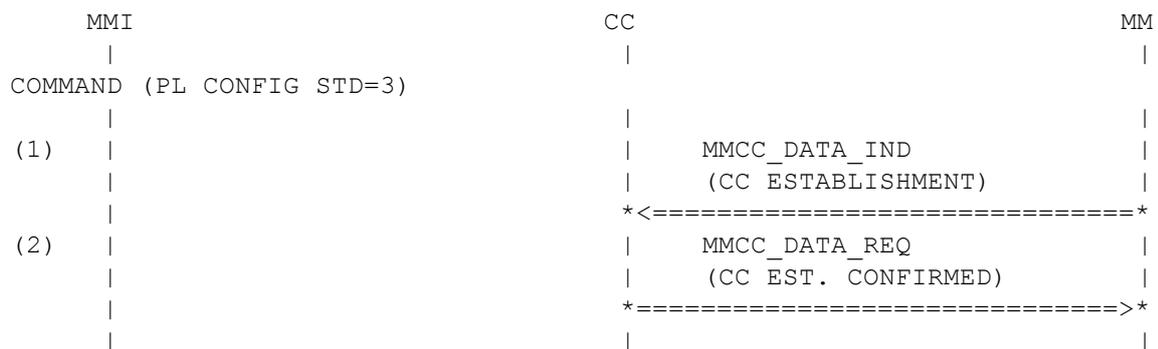
		cc_cause }	NOT_USED
History:	03-Feb-00	HM	Initial
	05-Jul-01	JHU	Converted to TAP2
	04-Apr-02	HM	Basic servive group alignment fixed.

### 3.3.38 CC064: CC receives CC ESTABLISHMENT message, EFR\_FR\_HR mobile

**Description:** CC receives the CC ESTABLISHMENT message in state U.03. This causes emission of CC ESTABLISHMENT CONFIRMED message to the network and state transition to state U0.5. In case the SETUP message provided by the SETUP container contains bearer capabilities for full rate speech code version 1 only, but the mobile is able of using enhanced full rate, full rate and half rate codecs, the bearer caps are changed to the mobile's capabilities.

**Preamble:** CC061

**Variants:** <A>..<B>



**Parametrization**

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_CC_ESTABLISHMENT
	ti	TI_MO_5_RESP
	<A> setup_cont	SETUP_CONT_SPEECH_FR
	<B> setup_cont	SETUP_CONT_SPEECH_FR_HR_EFR
	}	
(2) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
pd	U_CC_EST_CONF	
ti	TI_MO_5	

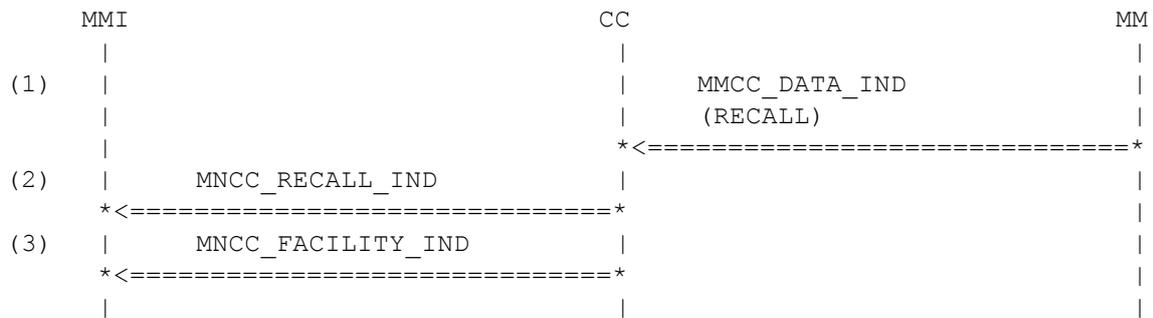
```
repeat          NOT_USED
bearer_cap      BC_SPEECH_FR_HR_EFR
bearer_cap_2    NOT_USED
cc_cause        NOT_USED
}
```

History:            04-Apr-02            HM            Initial

### 3.3.39 CC065: CC receives RECALL

**Description:** CC sent CC ESTABLISHMENT CONFIRMED message and receives RECALL message, the relevant informations received with the CC ESTABLISHMENT (setup container) and RECALL are forwarded by MNCC\_RECALL\_IND to upper layers.

**Preamble:** CC063



#### Parametrization

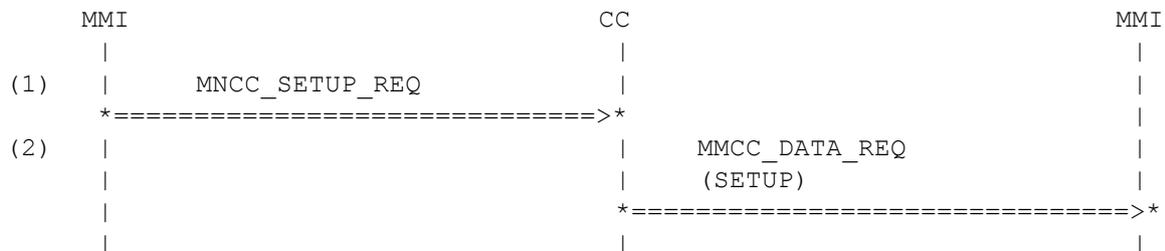
Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_RECALL
	ti	TI_MO_5_RESP
	recall_type	RECALL_TYPE_CCBS
	facility	FACILITY_A
	}	
(2) MNCC_RECALL_IND	ti	TI_MO_5
	ri	NOT_PRESENT_8BIT
	bcpara	BC_PARA_SPEECH
	bcpara2	BC_PARA_NO_SERVICE
	called_party	CLED_PARTY_654321
	called_party_sub	NOT_USED
	rcl_type	RCL_CCBS
(3) MNCC_FACILITY_IND	ti	TI_MO_5
	fac_context	FAC_IN_RECALL
	fac_inf	FACILITY_A_FAC

History:	04-Feb-00	HM	Initial
	21-Mar-00	HM	Facility now transferred separately
	05-Jul-01	JHU	Converted to TAP2

### 3.3.40 CC066: CC receives RECALL, user wants connection

**Description:** CC sent CC ESTABLISHMENT CONFIRMED message and received RECALL message. The user wants a connection. A mobile originated call is following.

**Preamble:** CC065



#### Parametrization

Primitive	Parameter	Value
(1) MNCC_SETUP_REQ	ti	TI_MO_5
	prio	PRIO_NORM_CALL
	ri	NOT_PRESENT_8BIT
	bcpara	NOT_USED
	bcpara2	NOT_USED
	called_party	NOT_USED
	called_party_sub	NOT_USED
	clir_sup	NOT_PRESENT_8BIT
(2) MMCC_DATA_REQ	fac_inf	NOT_USED
	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_SETUP
	ti	TI_MO_5
	repeat	NOT_USED
	bearer_cap	BC_SPEECH_FR
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	calling_subaddr	NOT_USED
	ul_called_num	UL_CLED_NUM_654321
	called_subaddr	NOT_USED
	repeat_2	NOT_USED
	low_layer_comp	NOT_USED
low_layer_comp_2	NOT_USED	

repeat_3	NOT_USED
high_layer_comp	NOT_USED
high_layer_comp_2	NOT_USED
user_user	NOT_USED
ss_version	NOT_USED
clir_suppr	NOT_USED
clir_invoc	NOT_USED
call_ctrl_cap	CALL_CTRL_CAP_1
fac_adv	NOT_USED
}	

History:	07-Feb-00	HM	Initial
	05-Jul-01	JHU	Converted to TAP2
	03-Apr-02	HM	PRIO_CCBS_CALL => PRIO_NORM_CALL, basic service group alignment fixed

### 3.3.41 CC067: CC receives RECALL, user refuses RECALL

**Description:** CC received the RECALL message. The user doesn't want a connection. The CCBS recall is rejected by sending of a RELEASE COMPLETE message with CAUSE\_CALL\_REJECT to the network. If a RELEASE COMPLETE with this cause is received by the network the CCBS entry is cancelled by the network.

**Preamble:** CC065

```

MMI                                     CC                                     MMI
|                                     |                                     |
(1) | MNCC_REJECT_REQ                 |                                     |
    | *=====>*                       |                                     |
(2) |                                     | MMCC_DATA_REQ                 |
    |                                     | (RELEASE COMPLETE)         |
    |                                     | *=====>*                       |
(3) |                                     | MMCC_RELEASE_REQ           |
    |                                     | *=====>*                       |
    |                                     |                                     |

```

#### Parametrization

Primitive	Parameter	Value
(1) MNCC_REJECT_REQ	ti	TI_MO_5
	cause	ACI_CAUSE_CALL_REJECT
(2) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_RELEASE_COMP
	ti	TI_MO_5
	cc_cause	CC_CAUSE_CALL_REJECT
	facility	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	}	
(3) MMCC_RELEASE_REQ	ti	TI_MO_5

**History:**

07-Feb-00	HM	Initial
05-Jul-01	JHU	Converted to TAP2

### 3.3.42 CC068: CC receives RECALL, no answer from user

Description: CC sent CC ESTABLISHMENT CONFIRMED message and received RECALL message, which is forwarded as facility indication to upper layers. The user doesn't answer the RECALL attempt, network sends RELEASE COMPLETE.

Preamble: CC065

```

MMI                                     CC                                     MMI
|                                     |                                     |
(1) |                                     | MMCC_DATA_IND                       |
    |                                     | (RELEASE COMPLETE)                 |
    |                                     | *<=====*>                         |
(2) | MNCC_RELEASE_IND                 |                                     |
    | *<=====*>                         |                                     |
(3) |                                     | MMCC_RELEASE_REQ                   |
    |                                     | *=====*>                         |
    |                                     |                                     |

```

#### Parametrization

Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_RELEASE_COMP
	ti	TI_MO_5_RESP
	cc_cause	CC_CAUSE_CCBS_TIMER_4
	facility	NOT_USED
	user_user	NOT_USED
	}	
	(2) MNCC_RELEASE_IND	ti
cause		MNCC_CAUSE_TIMER
(3) MMCC_RELEASE_REQ	ti	TI_MO_5

History: 07-Feb-00 HM Initial  
 05-Jul-01 JHU Converted to TAP2

### 3.3.43 CC069: Timeout of T332

Description: CC sent START CC message and is awaiting CC ESTABLISHMENT from network.  
The message from network is not received. A timeout of T332 will occur.

Preamble: CC061

	MMI		CC		MM
MUTE	(25000)				
(1)		MNCC_RELEASE_IND			
		*<=====			
(2)				MMCC_DATA_REQ	
				(RELEASE COMPLETE)	
				*=====	
(3)				MMCC_RELEASE_REQ	
				*=====	

#### Parametrization

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) MNCC_RELEASE_IND	ti	TI_MO_5
	cause	MNCC_CAUSE_MS_TIMER
(2) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	{
	component	CC
	direction	UPLINK
	pd	U_RELEASE_COMP
	ti	TI_MO_5
	cc_cause	CC_CAUSE_TIMER_332
	facility	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	}	
(3) MMCC_RELEASE_REQ	ti	TI_MO_5

History:	31-Jan-00	HM	Initial
	05-Jul-01	JHU	Converted to TAP2

### 3.3.44 CC070: CC receives CC ESTABLISHMENT message, no RECALL from net

**Description:** CC receives the CC ESTABLISHMENT message in state U.03. This causes emission of CC ESTABLISHMENT CONFIRMED message to the network and state transition to state U0.5. Timer T335 expires, the call is released with RELEASE COMPLETE message.

**Preamble:** CC061

MMI	CC	MM
(1)	MMCC_DATA_IND	
	(CC ESTABLISHMENT)	
	*<=====*	
(2)	MMCC_DATA_REQ	
	(CC EST. CONFIRMED)	
	*=====>*	
MUTE (25000)		
(3)	MNCC_RELEASE_IND	
	*<=====*	
(4)	MMCC_DATA_REQ	
	(RELEASE COMPLETE)	
	*=====>*	
(5)	MMCC_RELEASE_REQ	
	*=====>*	

#### Parametrization

Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_CC_ESTABLISHMENT
	ti	TI_MO_5_RESP
	setup_cont	SETUP_CONT_SPEECH_FR_HR_EFR
	}	
(2) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	pd	U_CC_EST_CONF

		ti	TI_MO_5
		repeat	NOT_USED
		bearer_cap	BC_SPEECH_FR
		bearer_cap_2	NOT_USED
		cc_cause	NOT_USED
		}	
( 3 )	MNCC_RELEASE_IND		
		ti	TI_MO_5
		cause	MNCC_CAUSE_MS_TIMER
( 4 )	MMCC_DATA_REQ		
		d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	U_RELEASE_COMP
		ti	TI_MO_5
		cc_cause	CC_CAUSE_TIMER_335
		facility	NOT_USED
		user_user	NOT_USED
		ss_version	NOT_USED
		}	
( 5 )	MMCC_RELEASE_REQ		
		ti	TI_MO_5
History:	03-Feb-00	HM	Initial
	05-Jul-01	JHU	Converted to TAP2

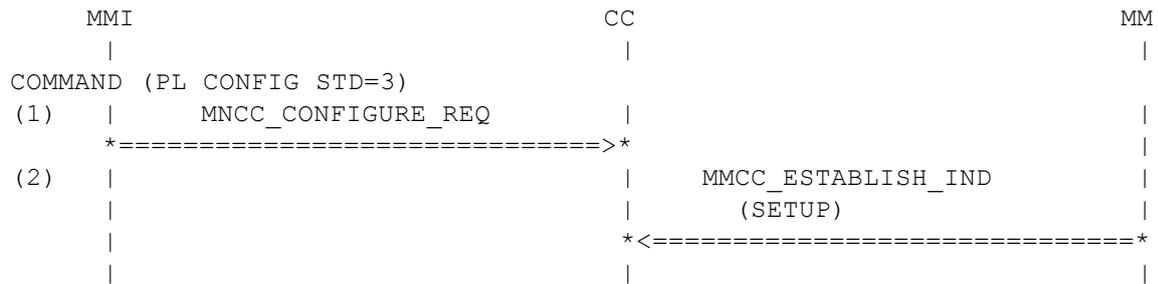
### 3.4 Call Establishment: Mobile Terminated Call

#### 3.4.1 CC081: SETUP message received from network (U0)

**Description:** CC receives a SETUP message from the network in the form of a MMCC-ESTABLISH indication primitive. CC enters the state CALL PRESENT (U6) and starts compatibility checks. (Ref. [1] 5.2.2.1)

**Variants:** <A>..**<F>**

**Preamble:** CC000



**Parametrization**

Primitive	Parameter	Value
(1) MNCC_CONFIGURE_REQ	called_party_sub	NOT_USED
	bcpara	BC_PARA_BS21_T_300
	<A> sns_mode	SNS_MODE_DATA
	<B> sns_mode	NOT_PRESENT_8BIT
	<C> sns_mode	SNS_MODE_DATA
	<D> sns_mode	SNS_MODE_DATA
	<E> sns_mode	NOT_PRESENT_8BIT
	<F> sns_mode	NOT_PRESENT_8BIT
	ctm_ena	CTM_DISABLED
	(2) MMCC_ESTABLISH_IND	d1
d2		NOT_USED
sdu		
{		
component		CC
direction		DOWNLINK
pd		D_SETUP
ti		TI_MT_1
<A> repeat		NOT_USED
<B> repeat		NOT_USED
<C> repeat		REPEAT_SEQUENTIAL
<D> repeat		REPEAT_SEQUENTIAL
<E> repeat		NOT_USED
<F> repeat		NOT_USED
<A> bearer_cap		BC_BS21_T_300

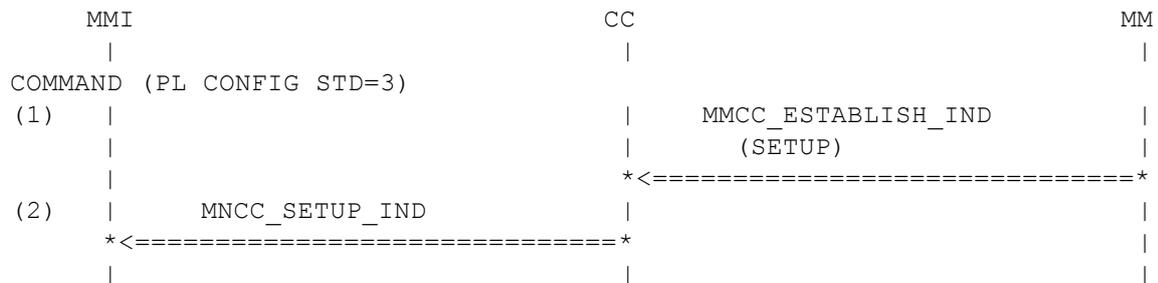
<B>		bearer_cap	BC_SPEECH_FR
<C>		bearer_cap	BC_BS21_T_300
<D>		bearer_cap	BC_SPEECH_FR
<E>		bearer_cap	BC_AUX_SPEECH_FR
<F>		bearer_cap	BC_SPEECH_AMR_EFR_HR_FR
<A>		bearer_cap_2	NOT_USED
<B>		bearer_cap_2	NOT_USED
<C>		bearer_cap_2	BC_SPEECH_FR
<D>		bearer_cap_2	BC_BS21_T_300
<E>		bearer_cap_2	NOT_USED
<F>		bearer_cap_2	NOT_USED
		facility	NOT_USED
		progress	PROG_1
		signal	SIGNAL_DIAL_ON
		calling_num	CLNG_NUM_654321
		calling_subaddr	NOT_USED
		dl_called_num	DL_CLED_NUM_654321
		called_subaddr	NOT_USED
		redirecting_num	NOT_USED
		redirecting_subaddr	NOT_USED
		repeat_2	NOT_USED
		low_layer_comp	NOT_USED
		low_layer_comp_2	NOT_USED
		repeat_3	NOT_USED
		high_layer_comp	NOT_USED
		high_layer_comp_2	NOT_USED
		user_user	NOT_USED
		}	
History:	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	06-Nov-97	LE	revised
	27-Jul-98	LE	adapted to fax & data
	04-Sep-00	LE	testcase for ALS added
	05-Jul-01	JHU	Converted to TAP2
	21-Aug-01	SBK	Adapted to NT default config
	26-Nov-01	OT	Variant F for AMR added.
	18-Mar-02	HM	Bearer cap parameter instead bearer
caps	02-Dec-2002	FK	Parameter 'ctm_ena' added

### 3.4.2 CC082: SETUP message received from network (U0)

**Description:** CC receives a SETUP message from the network in the form of a MMCC-ESTABLISH indication primitive. CC enters the state CALL PRESENT (U6) and starts compatibility checks (Ref. [1] 5.2.2.1). One time an even number of digits is present in the message, the other time its an odd number.

**Variants:** <A>..<B>

**Preamble:** CC000



#### Parametrization

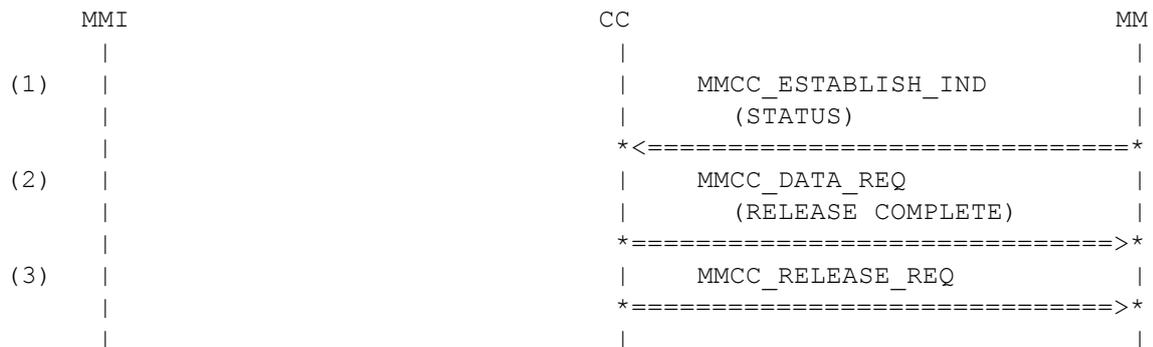
Primitive	Parameter	Value	
(1) MMCC_ESTABLISH_IND	d1	NOT_USED	
	d2	NOT_USED	
	sdu		
	{		
	component	CC	
	direction	DOWNLINK	
	pd	D_SETUP	
	ti	TI_MT_1	
	repeat	NOT_USED	
	bearer_cap	BC_SPEECH_FR	
	bearer_cap_2	NOT_USED	
	facility	NOT_USED	
	progress	PROG_1	
	signal	SIGNAL_DIAL_ON	
	<A>	calling_num	CLNG_NUM_654321
	<B>	calling_num	CLNG_NUM_7654321
		calling_subaddr	NOT_USED
	<A>	dl_called_num	DL_CLED_NUM_654321
	<B>	dl_called_num	DL_CLED_NUM_7654321
		called_subaddr	NOT_USED
		redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED	
	repeat_2	NOT_USED	
	low_layer_comp	NOT_USED	
	low_layer_comp_2	NOT_USED	
	repeat_3	NOT_USED	
	high_layer_comp	NOT_USED	

		high_layer_comp_2	NOT_USED
		user_user	NOT_USED
		}	
(2)	MNCC_SETUP_IND		
		ti	TI_MT_1_RESP
		ri	NOT_PRESENT_8BIT
		bcpara	BC_PARA_SPEECH
		bcpara2	NOT_USED
		progress_desc	PROG_END_TO_END_PLMN
		sig	SIGNAL_DIAL_ON
<A>		calling_party	CLNG_PARTY_654321
<B>		calling_party	CLNG_PARTY_7654321
		calling_party_sub	NOT_USED
<A>		called_party	CLED_PARTY_654321
<B>		called_party	CLED_PARTY_7654321
		called_party_sub	NOT_USED
		redirecting_party	REDIR_PARTY_NONE
		redirecting_party_sub	REDIR_PARTY_SUB_NONE
History:	28-Apr-00	HM	Initial
	05-Jul-01	JHU	Converted to TAP2

### 3.4.3 CC083: STATUS message with different call state received from network (U0)

**Description:** CC receives a STATUS message from the network in the form of a MMCC-ESTABLISH indication primitive while in the state NULL (U0). The call state in the message received is not identical to the current call state of CC, whereby CC immediately issues a RELEASE COMPLETE message as part of a MMCC-DATA request primitive followed by a MMCC-RELEASE request primitive.

**Preamble:** CC000



#### Parametrization

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>	
(1) MMCC_ESTABLISH_IND	d1	NOT_USED	
	d2	NOT_USED	
	sdu		
	{		
	component	CC	
	direction	DOWNLINK	
	pd	B_STATUS	
	ti	TI_MT_1	
	cc_cause	CC_CAUSE_UNSPECIFIED	
	call_state	CALL_STATE_CS_9	
	aux_states	NOT_USED	
	}		
	(2) MMCC_DATA_REQ	d1	NOT_USED
		d2	NOT_USED
sdu			
{			
component		CC	
direction		UPLINK	
pd		U_RELEASE_COMP	
ti		TI_MT_1_RESP	
cc_cause		CC_CAUSE_MSG_B_STATUS_2	
facility		NOT_USED	
user_user	NOT_USED		

		ss_version	NOT_USED
		}	
(3)	MMCC_RELEASE_REQ		
		ti	TI_MT_1_RESP
History:	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	05-Nov-97	LE	revised
	27-Jul-98	LE	adapted to fax & data
	05-Jul-01	JHU	Converted to TAP2

### 3.4.4 CC084: CALL PROCEEDING message received from network (U0)

**Description:** CC receives a CALL PROCEEDING message from the network in the form of a MMCC-ESTABLISH indication primitive while in the state NULL (U0). CC immediately issues a RELEASE COMPLETE message as part of a MMCC-DATA request primitive followed by a MMCC-RELEASE request primitive.

**Preamble:** CC000

MMI	CC	MM
(1)		
	MMCC_ESTABLISH_IND	
	(CALL PROCEEDING)	
	*<=====*	
(2)	MMCC_DATA_REQ	
	(RELEASE COMPLETE)	
	*=====*>	
(3)	MMCC_RELEASE_REQ	
	*=====*>	

#### Parametrization

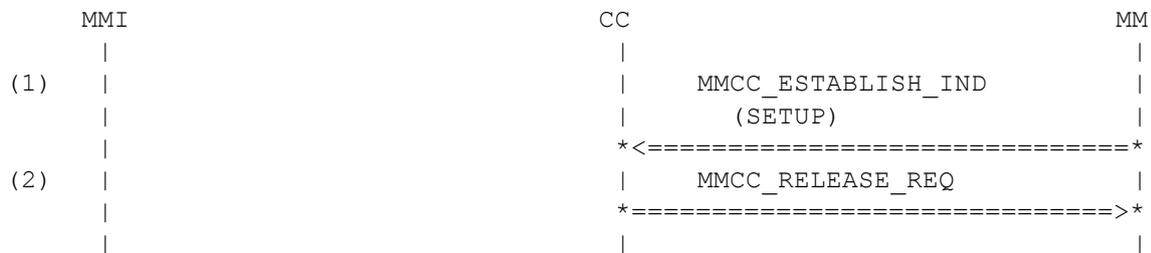
<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_CALL_PROCEED
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	NOT_USED
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	}	
(2) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_RELEASE_COMP
	ti	TI_MT_1_RESP
	cc_cause	CC_CAUSE_INVALID_TI
	facility	NOT_USED
user_user	NOT_USED	

		ss_version	NOT_USED
		}	
(3)	MMCC_RELEASE_REQ		
		ti	TI_MT_1_RESP
History:	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	06-Nov-97	LE	revised
	27-Jul-98	LE	adapted to fax & data
	05-Jul-01	JHU	Converted to TAP2

### 3.4.5 CC085: TI flag set: incoming SETUP message ignored (U0)

**Description:** The network starts call establishment by sending a SETUP message with the transaction identifier flag set. CC ignores this message and issues a MMCC-RELEASE request primitive to MM. (Ref. [1] 5.2.2.2)

**Preamble:** CC000



#### Parametrization

Primitive	Parameter	Value	
(1) MMCC_ESTABLISH_IND	d1	NOT_USED	
	d2	NOT_USED	
	sdu		
	{		
	component	CC	
	direction	DOWNLINK	
	pd	D_SETUP	
	ti	TI_MO_5_RESP	
	repeat	NOT_USED	
	bearer_cap	BC_SPEECH_FR	
	bearer_cap_2	NOT_USED	
	facility	NOT_USED	
	progress	PROG_1	
	signal	SIGNAL_DIAL_ON	
	calling_num	CLNG_NUM_654321	
	calling_subaddr	NOT_USED	
	dl_called_num	DL_CLED_NUM_654321	
	called_subaddr	NOT_USED	
	redirecting_num	NOT_USED	
	redirecting_subaddr	NOT_USED	
	repeat_2	NOT_USED	
	low_layer_comp	NOT_USED	
	low_layer_comp_2	NOT_USED	
	repeat_3	NOT_USED	
	high_layer_comp	NOT_USED	
	high_layer_comp_2	NOT_USED	
	user_user	NOT_USED	
	}		
	(2) MMCC_RELEASE_REQ	ti	TI_MO_5

History:	25-Apr-97	DL	Initial
	06-Nov-97	LE	revised
	27-Jul-98	LE	adapted to fax & data
	05-Jul-01	JHU	Converted to TAP2

### 3.4.6 CC086: STATUS ENQUIRY message received from network (U0)

**Description:** CC receives a STATUS ENQUIRY message from the network in the form of a MMCC-ESTABLISH indication primitive while in the state NULL (U0). CC immediately issues a RELEASE COMPLETE message as part of a MMCC-DATA request primitive followed by a MMCC-RELEASE request primitive.

**Preamble:** CC000

MMI	CC	MM
(1)		
	MMCC_ESTABLISH_IND	
	(STATUS ENQUIRY)	
	*<=====*	
(2)	MMCC_DATA_REQ	
	(RELEASE COMPLETE)	
	*=====>*	
(3)	MMCC_RELEASE_REQ	
	*=====>*	

#### Parametrization

Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	B_STATUS_ENQ
	ti	TI_MT_1
	}	
	(2) MMCC_DATA_REQ	d1
d2		NOT_USED
sdu		
{		
component		CC
direction		UPLINK
pd		U_RELEASE_COMP
ti		TI_MT_1_RESP
cc_cause		CC_CAUSE_INVALID_TI
facility		NOT_USED
user_user		NOT_USED
ss_version		NOT_USED
}		
(3) MMCC_RELEASE_REQ	ti	TI_MT_1_RESP

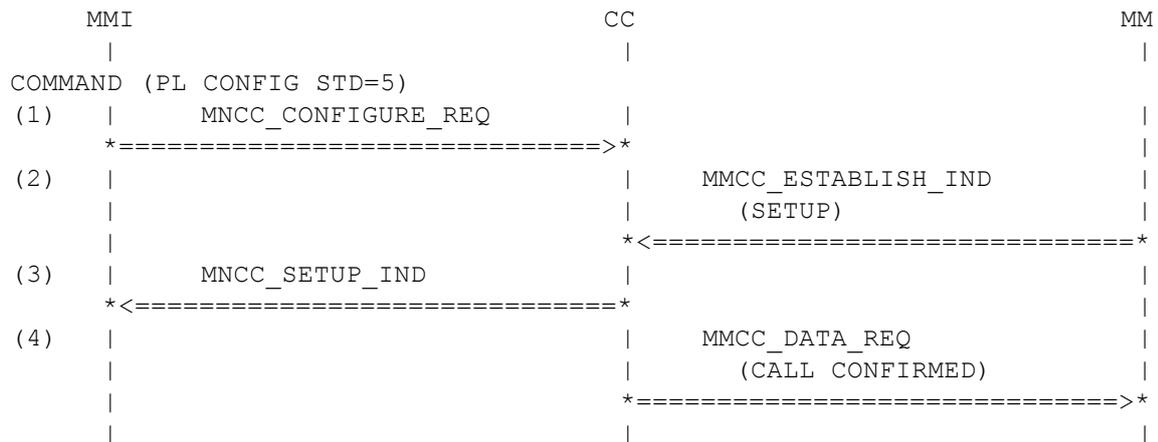
History:	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	06-Nov-97	LE	revised
	27-Jul-98	LE	adapted to fax & data
	05-Jul-01	JHU	Converted to TAP2

### 3.4.7 CC087: SETUP message received from network (U0), CTM Support by MS

**Description:** CC receives a SETUP message from the network in the form of a MMCC-ESTABLISH indication primitive. CC enters the state CALL PRESENT (U6) and starts compatibility checks. (Ref. [1] 5.2.2.1). Indication of the received call is given to MMI and the call is answered with indicating CTM support in the call confirmed message.

**Variants:** <A>..<C>

**Preamble:** CC000



**Parametrization**

Primitive	Parameter	Value	
(1) MNCC_CONFIGURE_REQ	called_party_sub	NOT_USED	
	bcpara	BC_PARA_NO_SERVICE	
	sns_mode	SNS_MODE_VOICE	
	ctm_ena	CTM_ENABLED	
(2) MMCC_ESTABLISH_IND	d1	NOT_USED	
	d2	NOT_USED	
	sdu		
	{		
	component	CC	
	direction	DOWNLINK	
	pd	D_SETUP	
	ti	TI_MT_1	
	repeat	NOT_USED	
	<A>	bearer_cap	BC_SPEECH_FR
	<B>	bearer_cap	BC_AUX_SPEECH_FR
	<C>	bearer_cap	BC_SPEECH_AMR_EFR_HR_FR
		bearer_cap_2	NOT_USED
		facility	NOT_USED
		progress	PROG_1
	signal	SIGNAL_DIAL_ON	

	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
	repeat_2	NOT_USED
	low_layer_comp	NOT_USED
	low_layer_comp_2	NOT_USED
	repeat_3	NOT_USED
	high_layer_comp	NOT_USED
	high_layer_comp_2	NOT_USED
	user_user	NOT_USED
	}	
( 3 )	MNCC_SETUP_IND	
	ti	TI_MT_1_RESP
	ri	NOT_PRESENT_8BIT
<A>	bcpara	BC_PARA_SPEECH_CTM
<B>	bcpara	BC_PARA_SPEECH_LINE_2_CTM
<C>	bcpara	BC_PARA_SPEECH_CTM
	bcpara2	BC_PARA_NO_SERVICE
	progress_desc	PROG_END_TO_END_PLMN
	sig	SIGNAL_DIAL_ON
	calling_party	CLNG_PARTY_654321
	calling_party_sub	NOT_USED
	called_party	CLED_PARTY_654321
	called_party_sub	NOT_USED
	redirecting_party	REDIR_PARTY_NONE
	redirecting_party_sub	REDIR_PARTY_SUB_NONE
( 4 )	MMCC_DATA_REQ	
	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_CALL_CONF
	ti	TI_MT_1_RESP
	repeat	FORBID
<A>	bearer_cap	BC_SPEECH_FR_CTM
<B>	bearer_cap	BC_AUX_SPEECH_FR_CTM
<C>	bearer_cap	BC_SPEECH_FR_CTM
	bearer_cap_2	FORBID
	cc_cause	NOT_USED
	}	

History:

06-Dec-2002

FK

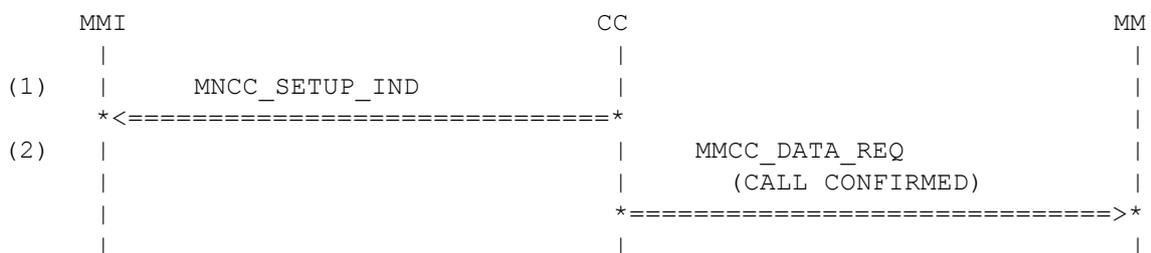
Initial

### 3.4.8 CC092: Test of incoming SETUP message successful (U6)

**Description:** The compatibility checks have been evaluated successfully. CC sends a MNCC-SETUP indication primitive to MMI, builds a CALL CONFIRMED message and sends this in the form of a MNCC-DATA request primitive to MM, and enters the state MT CALL CONFIRMED (U9). (Ref. [1] 5.2.2.3.1)

**Variants:** <A>..**<F>**

**Preamble:** <A>CC081A  
 <B>CC081B  
 <C>CC081C  
 <D>CC081D  
 <E>CC081E  
 <F>CC081F



**Parametrization**

Primitive	Parameter	Value
(1) MNCC_SETUP_IND		
	ti	TI_MT_1_RESP
<A>	ri	NOT_PRESENT_8BIT
<B>	ri	NOT_PRESENT_8BIT
<C>	ri	REPEAT_SEQUENTIAL
<D>	ri	REPEAT_SEQUENTIAL
<E>	ri	NOT_PRESENT_8BIT
<F>	ri	NOT_PRESENT_8BIT
<A>	bcpara	BC_PARA_BS21_T_300
<B>	bcpara	BC_PARA_SPEECH
<C>	bcpara	BC_PARA_BS21_T_300
<D>	bcpara	BC_PARA_SPEECH
<E>	bcpara	BC_PARA_SPEECH_LINE_2
<F>	bcpara	BC_PARA_SPEECH
<A>	bcpara2	NOT_USED
<B>	bcpara2	NOT_USED
<C>	bcpara2	BC_PARA_SPEECH
<D>	bcpara2	BC_PARA_BS21_T_300
<E>	bcpara2	NOT_USED
<F>	bcpara2	NOT_USED
	progress_desc	PROG_END_TO_END_PLMN
	sig	SIGNAL_DIAL_ON
	calling_party	CLNG_PARTY_654321

calling_party_sub	NOT_USED
called_party	CLED_PARTY_654321
called_party_sub	NOT_USED
redirecting_party	REDIR_PARTY_NONE
redirecting_party_sub	REDIR_PARTY_SUB_NONE

## (2) MMCC\_DATA\_REQ

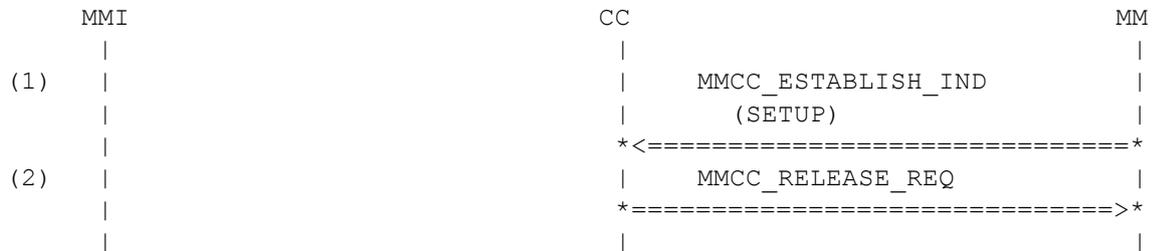
d1	NOT_USED
d2	NOT_USED
sdu	
{	
component	CC
direction	UPLINK
pd	U_CALL_CONF
ti	TI_MT_1_RESP
repeat	NOT_USED
bearer_cap	NOT_USED
bearer_cap_2	NOT_USED
cc_cause	NOT_USED
}	

History:	25-Apr-97	DL	Initial
	31-Jul-97	VK	variants <A>..<C>
	04-Aug-97	VK	d1,d2 added
	27-Jul-98	LE	adapted to fax & data
	04-Sep-00	LE	testcase for ALS added
	05-Jul-01	JHU	Converted to TAP2
	26-Nov-01	OT	Variant <F> for AMR added.
	05-Apr-02	HM	call_ctrl_cap removed as in target

### 3.4.9 CC093: TI flag set: incoming SETUP message rejected (U6)

**Description:** One of the compatibility checks has established that the transaction identifier (TI) flag is set. CC therefore ignores the SETUP message and issues a MMCC-RELEASE request primitive to MM. (Ref. [1] 5.2.2.2)

**Preamble:** CC000



#### Parametrization

Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1_RESP
	repeat	NOT_USED
	bearer_cap	BC_SPEECH_FR
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
	repeat_2	NOT_USED
	low_layer_comp	NOT_USED
	low_layer_comp_2	NOT_USED
	repeat_3	NOT_USED
	high_layer_comp	NOT_USED
	high_layer_comp_2	NOT_USED
	user_user	NOT_USED
}		
(2) MMCC_RELEASE_REQ	ti	TI_MT_1

History:	25-Apr-97	DL	Initial
	09-Nov-97	LE	revised
	27-Jul-98	LE	adapted to fax & data
	05-Jul-01	JHU	Converted to TAP2

### 3.4.10 CC094: TI is a reserved value: incoming SETUP message rejected (U6)

**Description:** One of the compatibility checks has established that the transaction identifier (TI) flag is a reserved value. CC ignores the SETUP message, builds a STATUS message and sends this in the form of a MMCC-DATA request primitive to MM. CC then sends a MMCC-RELEASE request primitive to MM. (Ref. [1] 5.2.2.2)

**Preamble:** CC000

MMI		CC		MM
(1)			MMCC_ESTABLISH_IND	
			(SETUP)	
			*<=====*	
(2)			MMCC_RELEASE_REQ	
			*=====*>	

#### Parametrization

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_7
	repeat	NOT_USED
	bearer_cap	BC_BS21_T_300
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
	repeat_2	NOT_USED
	low_layer_comp	NOT_USED
	low_layer_comp_2	NOT_USED
	repeat_3	NOT_USED
	high_layer_comp	NOT_USED
	high_layer_comp_2	NOT_USED
	user_user	NOT_USED
	}	

(2) MMCC\_RELEASE\_REQ

ti

TI\_MT\_7\_RESP

History:	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	10-Nov-97	LE	revised
	27-Jul-98	LE	adapted to fax & data
	05-Jul-01	JHU	Converted to TAP2

### 3.4.11 CC097: All transactions in use: incoming SETUP message rejected (U0)

**Description:** All transactions are currently in use. CC ignores the SETUP message, builds a RELEASE COMPLETE message and sends this in the form of a MMCC-DATA request primitive to MM. CC then sends a MMCC-RELEASE request primitive to MM. (Ref. [1] 5.2.2.2)

**Note:** A maximum number of 4 is only used in the PC/simulation environment. In the target, the maximum number of calls supported by CC is 7.

**Preamble:** CC092A

MMI	CC	MM
(1)	MMCC_ESTABLISH_IND (SETUP)	
	*<=====*	
(2)	MNCC_SETUP_IND	
	*<=====*	
(3)	MMCC_DATA_REQ (CALL CONFIRMED)	
	*=====>*	
(4)	MMCC_ESTABLISH_IND (SETUP)	
	*<=====*	
(5)	MNCC_SETUP_IND	
	*<=====*	
(6)	MMCC_DATA_REQ (CALL CONFIRMED)	
	*=====>*	
(7)	MMCC_ESTABLISH_IND (SETUP)	
	*<=====*	
(8)	MNCC_SETUP_IND	
	*<=====*	
(9)	MMCC_DATA_REQ (CALL CONFIRMED)	
	*=====>*	
(10)	MMCC_ESTABLISH_IND (SETUP)	
	*<=====*	
(11)	MMCC_DATA_REQ (RELEASE COMPLETE)	
	*=====>*	
(12)	MMCC_RELEASE_REQ	
	*=====>*	

#### Parametrization

Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	

component	CC
direction	DOWNLINK
pd	D_SETUP
ti	TI_MT_2
repeat	NOT_USED
bearer_cap	BC_SPEECH_FR
bearer_cap_2	NOT_USED
facility	NOT_USED
progress	PROG_1
signal	NOT_USED
calling_num	CLNG_NUM_654321
calling_subaddr	NOT_USED
dl_called_num	DL_CLED_NUM_654321
called_subaddr	NOT_USED
redirecting_num	NOT_USED
redirecting_subaddr	NOT_USED
repeat_2	NOT_USED
low_layer_comp	NOT_USED
low_layer_comp_2	NOT_USED
repeat_3	NOT_USED
high_layer_comp	NOT_USED
high_layer_comp_2	NOT_USED
user_user	NOT_USED
}	
(2) MNCC_SETUP_IND	
ti	TI_MT_2_RESP
ri	NOT_PRESENT_8BIT
bcpara	BC_PARA_SPEECH
bcpara2	BC_PARA_NO_SERVICE
progress_desc	PROG_END_TO_END_PLMN
sig	NOT_USED
calling_party	CLNG_PARTY_654321
calling_party_sub	NOT_USED
called_party	CLED_PARTY_654321
called_party_sub	NOT_USED
redirecting_party	REDIR_PARTY_NONE
redirecting_party_sub	REDIR_PARTY_SUB_NONE
(3) MMCC_DATA_REQ	
d1	NOT_USED
d2	NOT_USED
sdu	
{	
component	CC
direction	UPLINK
pd	U_CALL_CONF
ti	TI_MT_2_RESP
repeat	NOT_USED
bearer_cap	NOT_USED

	bearer_cap_2	NOT_USED
	cc_cause	NOT_USED
	}	
( 4 )	MMCC_ESTABLISH_IND	
	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_3
	repeat	NOT_USED
	bearer_cap	BC_SPEECH_FR
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	NOT_USED
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
	repeat_2	NOT_USED
	low_layer_comp	NOT_USED
	low_layer_comp_2	NOT_USED
	repeat_3	NOT_USED
	high_layer_comp	NOT_USED
	high_layer_comp_2	NOT_USED
	user_user	NOT_USED
	}	
( 5 )	MNCC_SETUP_IND	
	ti	TI_MT_3_RESP
	ri	NOT_PRESENT_8BIT
	bcpara	BC_PARA_SPEECH
	bcpara2	BC_PARA_NO_SERVICE
	progress_desc	PROG_END_TO_END_PLMN
	sig	NOT_USED
	calling_party	CLNG_PARTY_654321
	calling_party_sub	NOT_USED
	called_party	CLED_PARTY_654321
	called_party_sub	NOT_USED
	redirecting_party	REDIR_PARTY_NONE
	redirecting_party_sub	REDIR_PARTY_SUB_NONE
( 6 )	MMCC_DATA_REQ	
	d1	NOT_USED

	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_CALL_CONF
	ti	TI_MT_3_RESP
	repeat	NOT_USED
	bearer_cap	NOT_USED
	bearer_cap_2	NOT_USED
	cc_cause	NOT_USED
	}	
( 7 )	MMCC_ESTABLISH_IND	
	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_4
	repeat	NOT_USED
	bearer_cap	BC_SPEECH_FR
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	NOT_USED
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
	repeat_2	NOT_USED
	low_layer_comp	NOT_USED
	low_layer_comp_2	NOT_USED
	repeat_3	NOT_USED
	high_layer_comp	NOT_USED
	high_layer_comp_2	NOT_USED
	user_user	NOT_USED
	}	
( 8 )	MNCC_SETUP_IND	
	ti	TI_MT_4_RESP
	ri	NOT_PRESENT_8BIT
	bcpara	BC_PARA_SPEECH
	bcpara2	BC_PARA_NO_SERVICE
	progress_desc	PROG_END_TO_END_PLMN
	sig	NOT_USED

	calling_party	CLNG_PARTY_654321
	calling_party_sub	NOT_USED
	called_party	CLED_PARTY_654321
	called_party_sub	NOT_USED
	redirecting_party	REDIR_PARTY_NONE
	redirecting_party_sub	REDIR_PARTY_SUB_NONE
(9)	MMCC_DATA_REQ	
	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_CALL_CONF
	ti	TI_MT_4_RESP
	repeat	NOT_USED
	bearer_cap	NOT_USED
	bearer_cap_2	NOT_USED
	cc_cause	NOT_USED
	}	
(10)	MMCC_ESTABLISH_IND	
	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_5
	repeat	NOT_USED
	bearer_cap	BC_SPEECH_FR
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	NOT_USED
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
	repeat_2	NOT_USED
	low_layer_comp	NOT_USED
	low_layer_comp_2	NOT_USED
	repeat_3	NOT_USED
	high_layer_comp	NOT_USED
	high_layer_comp_2	NOT_USED

		user_user	NOT_USED
		}	
(11)	MMCC_DATA_REQ		
		d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	U_RELEASE_COMP
		ti	TI_MT_5_RESP
		cc_cause	CC_CAUSE_USER_BUSY
		facility	NOT_USED
		user_user	NOT_USED
		ss_version	NOT_USED
		}	
(12)	MMCC_RELEASE_REQ		
		ti	TI_MT_5_RESP
History:	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	27-Jul-98	LE	adapted to fax & data
	05-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target
	12-Jul-02	HM	CC_CAUSE_USER_BUSY if no slot
left			

### 3.4.12 CC098: Compatibility check failed: incoming SETUP message rejected (U0)

**Description:** The compatibility checks have failed. CC ignores the SETUP message, builds a RELEASE COMPLETE message and sends this in the form of a MMCC-DATA request primitive to MM. CC then sends a MMCC-RELEASE request primitive to MM. (Ref. [1] 5.2.2.2)

**Preamble:** CC000

MMI	CC	MM
(1)		
	MMCC_ESTABLISH_IND	
	(SETUP)	
	*<=====*	
(2)	MMCC_DATA_REQ	
	(RELEASE COMPLETE)	
	*=====>*	
(3)	MMCC_RELEASE_REQ	
	*=====>*	

#### Parametrization

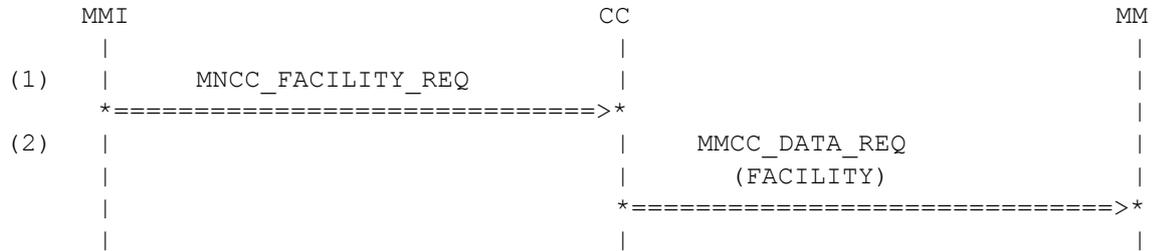
<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_BS21_T_300
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
	repeat_2	NOT_USED
	low_layer_comp	NOT_USED
	low_layer_comp_2	NOT_USED
	repeat_3	NOT_USED
	high_layer_comp	NOT_USED
	high_layer_comp_2	NOT_USED

		user_user	NOT_USED
		}	
(2)	MMCC_DATA_REQ		
		d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	U_RELEASE_COMP
		ti	TI_MT_1_RESP
		cc_cause	CC_CAUSE_INCOMPAT
		facility	NOT_USED
		user_user	NOT_USED
		ss_version	NOT_USED
		}	
(3)	MMCC_RELEASE_REQ		
		ti	TI_MT_1_RESP
History:	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	27-Jul-98	LE	adapted to fax & data
	06-Jul-01	JHU	Converted to TAP2

### 3.4.13 CC100: Facility information element sent to network (U9)

**Description:** CC receives a MNCC-FACILITY request primitive from MMI. CC builds a FACILITY message and sends this as part of a MNCC-DATA request primitive to MM.

**Preamble:** CC092B



#### Parametrization

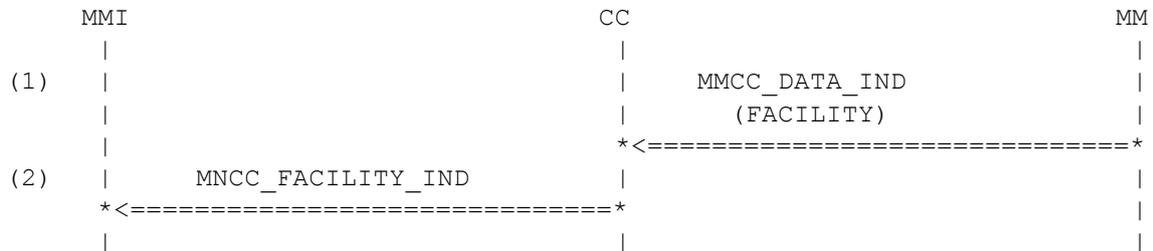
Primitive	Parameter	Value
(1) MNCC_FACILITY_REQ	ti	TI_MT_1_RESP
	fac_inf	FACILITY_A_FAC
	ss_version	NOT_USED
(2) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_FACILITY
	ti	TI_MT_1_RESP
	facility	FACILITY_A
	ss_version	NOT_USED
	}	

History:	25-Apr-97	DL	Initial
	10-Nov-97	LE	revised
	27-Jul-98	LE	adapted to fax & data
	06-Jul-01	JHU	Converted to TAP2

### 3.4.14 CC101: Facility information element received from network (U9)

**Description:** CC receives a FACILITY message from the network as part of a MMCC-DATA indication primitive. CC informs MMI by issuing a MNCC-FACILITY indication primitive.

**Preamble:** CC092B



**Parametrization**

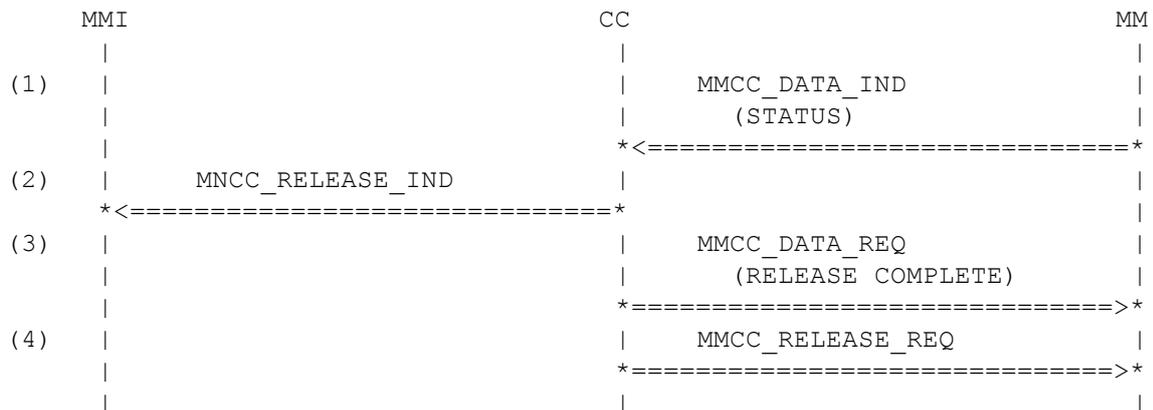
Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_FACILITY
	ti	TI_MT_1
	facility	FACILITY_A
	}	
(2) MNCC_FACILITY_IND	ti	TI_MT_1_RESP
	fac_context	FAC_IN_FACILITY
	fac_inf	FACILITY_A_FAC

History:	Date	Author	Change
	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	10-Nov-97	LE	revised
	27-Jul-98	LE	adapted to fax & data
	06-Jul-01	JHU	Converted to TAP2

### 3.4.15 CC102: STATUS message with different call state received from network (U9)

**Description:** CC receives a STATUS message from the network in the form of a MMCC-DATA indication. The call state in the message received is not identical to the current call state of CC, whereby CC immediately issues a RELEASE COMPLETE message as part of a MMCC-DATA request primitive followed by a MMCC-RELEASE request primitive.

**Preamble:** CC092B



#### Parametrization

Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	B_STATUS
	ti	TI_MT_1
	cc_cause	CC_CAUSE_UNSPECIFIED
	call_state	CALL_STATE_CS_4
	aux_states	NOT_USED
	}	
	(2) MNCC_RELEASE_IND	ti
cause		
MNCC_CAUSE_MS_MESSAGE_INCOMPAT		
(3) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
direction	UPLINK	

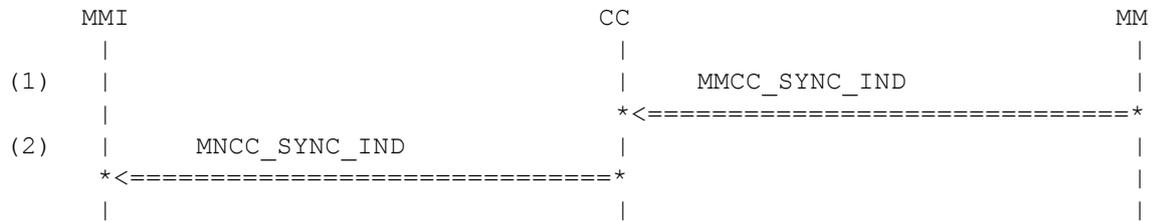
	pd	U_RELEASE_COMP
	ti	TI_MT_1_RESP
	cc_cause	CC_CAUSE_MSG_B_STATUS_2
	facility	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	}	
( 4 )	MMCC_RELEASE_REQ	
	ti	TI_MT_1_RESP

History:	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	05-Nov-97	LE	revised
	27-Jul-98	LE	adapted to fax & data
	06-Jul-01	JHU	Converted to TAP2

### 3.4.16 CC110: TCH assignment received from network during call establishment (U9)

**Description:** While in the state MT CALL CONFIRMED (U9) CC receives a traffic channel (TCH) assignment in the form of a MMCC-SYNC indication primitive. CC sends a MNCC-SYNC indication primitive to MMI. (Ref. [1] 5.2.2.7)

**Preamble:** CC092B



**Parametrization**

Primitive	Parameter	Value
(1) MMCC_SYNC_IND	ti	TI_MT_1_RESP
	chm	CH_SIG_ONLY
(2) MNCC_SYNC_IND	ti	TI_MT_1_RESP
	cause	MNCC_CAUSE_CHANNEL_SYNC
	chm	CH_SIG_ONLY

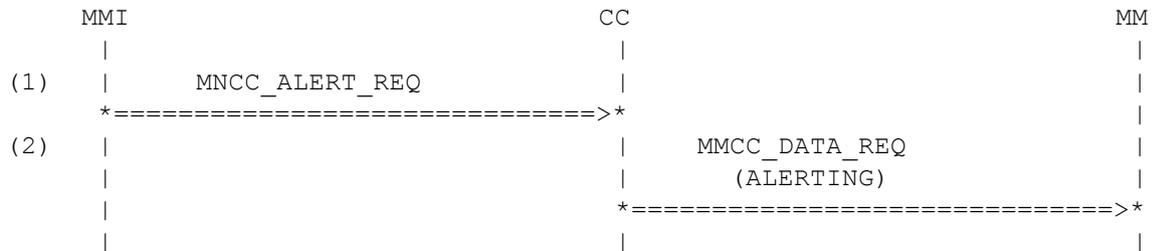
**History:**

25-Apr-97	DL	Initial
15-Jul-97	VK	MNCC_SYNC_IND revised
27-Jul-98	LE	adapted to fax & data
19-Jul-99	LE	CH_SIG_ONLY used
06-Jul-01	JHU	Converted to TAP2

### 3.4.17 CC112: Alerting in course of call establishment (U9)

**Description:** While in the state MT CALL CONFIRMED (U9) CC receives a MNCC-ALERT request primitive from MMI to indicate that alerting has been switched on. CC builds an ALERTING message, sends this in the form of a MMCC-DATA request primitive to MM and enters the state CALL RECEIVED (U7).

**Preamble:** CC092B



**Parametrization**

Primitive	Parameter	Value
(1) MNCC_ALERT_REQ	ti	TI_MT_1_RESP
(2) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_ALERT
	ti	TI_MT_1_RESP
	facility	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	}	

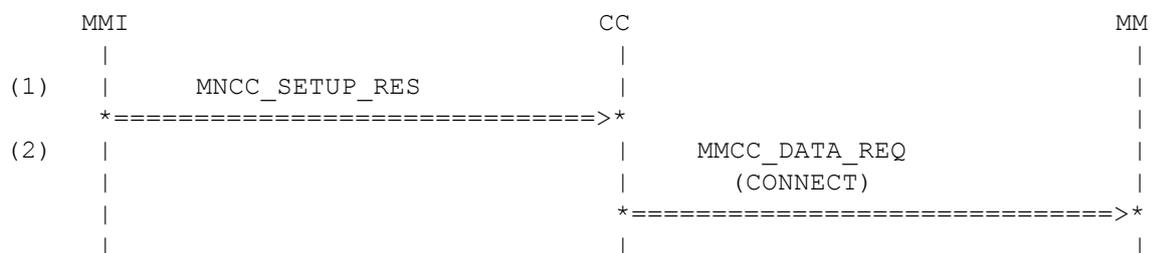
History:	Date	Author	Change
	25-Apr-97	DL	Initial
	15-Jul-97	VK	direction UPLINK (was DOWNLINK)
	15-Jul-97	VK	U_ALERT instead of U_CONNECT
	04-Aug-97	VK	d1,d2 added
	27-Jul-98	LE	adapted to fax & data
	06-Jul-01	JHU	Converted to TAP2

### 3.4.18 CC113: Confirmation from MMI (U9)

**Description:** While in the state MT CALL CONFIRMED (U9) CC receives a MNCC-SETUP response primitive from MMI to indicate that the call has been accepted. CC builds a CONNECT message, sends this in the form of a MMCC-DATA request primitive to MM, starts the T313 timer and enters the state CONNECT REQUEST (U8). (Ref. [1] 5.2.2.5)

**Variants:** <A>..<>E>

**Preamble:** <A>CC092A  
<B>CC092B  
<C>CC092C  
<D>CC092D  
<E>CC092F



#### Parametrization

Primitive	Parameter	Value
(1) MNCC_SETUP_RES	ti	TI_MT_1_RESP
(2) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_CONNECT
	ti	TI_MT_1_RESP
	facility	NOT_USED
	connect_subaddr	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	}	

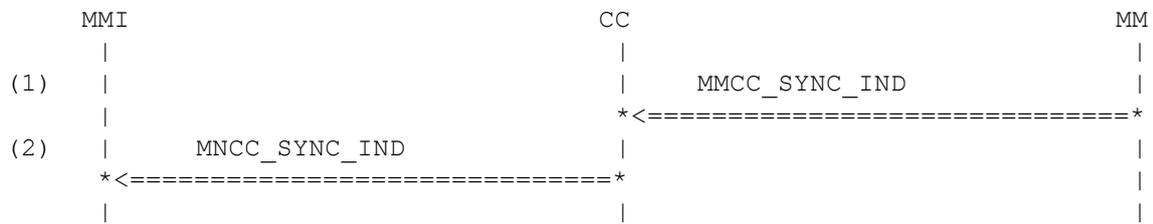
History:	Date	Author	Change
	25-Apr-97	DL	Initial
	15-Jul-97	VK	direction UPLINK (was DOWNLINK)
	31-Jul-97	VK	preamble is cc092a
	31-Jul-97	VK	variants <A>..<>B>
	04-Jul-97	VK	d1,d2 added

27-Jul-98	LE	adapted to fax & data
06-Jul-01	JHU	Converted to TAP2
26-Nov-01	OT	Variant <E> for AMR added.

### 3.4.19 CC115: TCH assignment from network during call establishment (U7)

**Description:** While in the state CALL RECEIVED (U7) CC receives a traffic channel (TCH) assignment in the form of a MMCC-SYNC indication primitive. CC sends a MNCC-SYNC indication primitive to MMI. (Ref. [1] 5.5.2.2.7)

**Preamble:** CC112



**Parametrization**

Primitive	Parameter	Value
(1) MMCC_SYNC_IND	ti	TI_MT_1_RESP
	chm	CH_SIG_ONLY
(2) MNCC_SYNC_IND	ti	TI_MT_1_RESP
	cause	MNCC_CAUSE_CHANNEL_SYNC
	chm	CH_SIG_ONLY

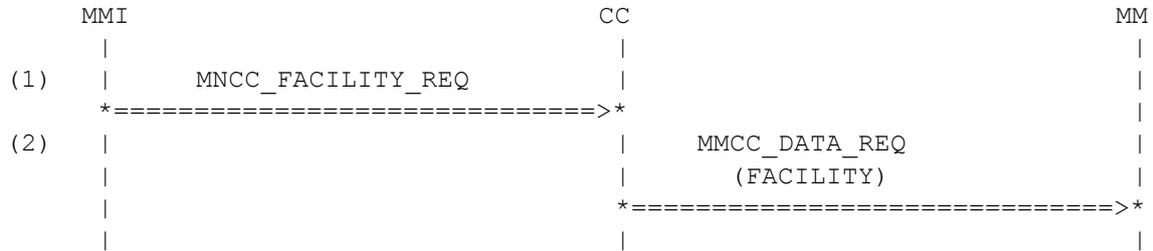
**History:**

25-Apr-97	DL	Initial
15-Jul-97	VK	MNCC_SYNC_IND params revised
27-Jul-98	LE	adapted to fax & data
19-Jul-99	LE	CH_SIG_ONLY inserted
06-Jul-01	JHU	Converted to TAP2

### 3.4.20 CC116: Facility information element sent to network (U7)

**Description:** CC receives a MNCC-FACILITY request primitive from MMI. CC builds a FACILITY message and sends this as part of a MNCC-DATA request primitive to MM.

**Preamble:** CC112



**Parametrization**

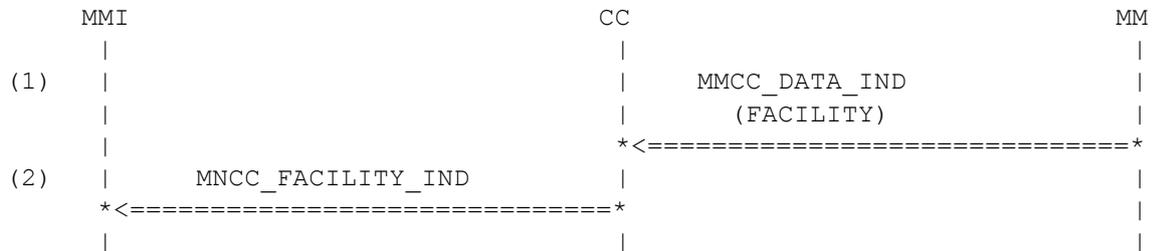
Primitive	Parameter	Value
(1) MNCC_FACILITY_REQ	ti	TI_MT_1_RESP
	fac_inf	FACILITY_A_FAC
	ss_version	NOT_USED
(2) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_FACILITY
	ti	TI_MT_1_RESP
	facility	FACILITY_A
	ss_version	NOT_USED
	}	

History:	Date	Author	Change
	25-Apr-97	DL	Initial
	15-Jul-97	VK	params revised
	04-Aug-97	VK	d1,d2 added
	27-Jul-98	LE	adapted to fax & data
	06-Jul-01	JHU	Converted to TAP2

### 3.4.21 CC117: Facility information element received from network (U7)

**Description:** CC receives a FACILITY message from the network as part of a MMCC-DATA indication primitive. CC informs MMI by issuing a MNCC-FACILITY indication primitive.

**Preamble:** CC112



**Parametrization**

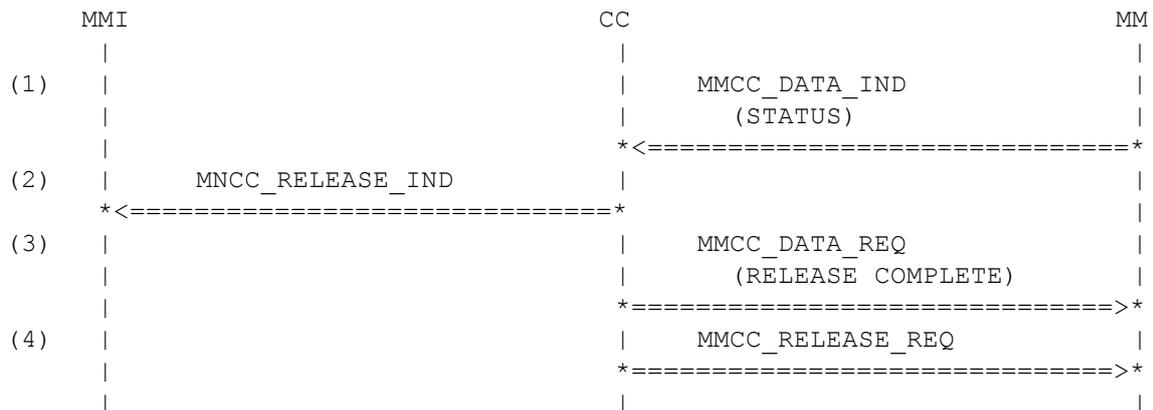
Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_FACILITY
	ti	TI_MT_1
	facility	FACILITY_A
	}	
(2) MNCC_FACILITY_IND	ti	TI_MT_1_RESP
	fac_context	FAC_IN_FACILITY
	fac_inf	FACILITY_A_FAC

History:	Date	Author	Change
	25-Apr-97	DL	Initial
	15-Jul-97	VK	params revised
	04-Aug-97	VK	d1,d2 added
	27-Jul-98	LE	adapted to fax & data
	06-Jul-01	JHU	Converted to TAP2

### 3.4.22 CC118: STATUS message with different call state received from network (U7)

**Description:** CC receives a STATUS message from the network in the form of a MMCC-DATA indication primitive while in the state U7. The call state in the message received is not identical to the current call state of CC, whereby CC immediately issues a RELEASE COMPLETE message as part of a MMCC-DATA request primitive followed by a MMCC-RELEASE request primitive.

**Preamble:** CC112



#### Parametrization

Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	B_STATUS
	ti	TI_MT_1
	cc_cause	CC_CAUSE_UNSPECIFIED
	call_state	CALL_STATE_CS_9
	aux_states	NOT_USED
	}	
(2) MNCC_RELEASE_IND	ti	TI_MT_1_RESP
	cause	
	MNCC_CAUSE_MS_MESSAGE_INCOMPAT	
(3) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK

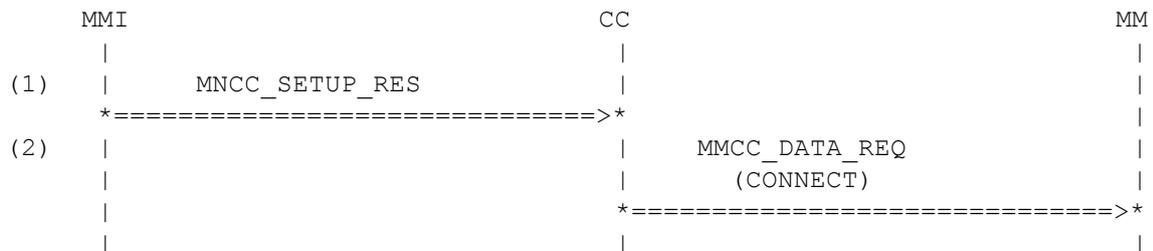
	pd	U_RELEASE_COMP
	ti	TI_MT_1_RESP
	cc_cause	CC_CAUSE_MSG_B_STATUS_2
	facility	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	}	
( 4 )	MMCC_RELEASE_REQ	
	ti	TI_MT_1_RESP

History:	25-Apr-97	DL	Initial
	15-Jul-97	VK	revised (ref CC102)
	04-Aug-97	VK	d1,d2 added
	27-Jul-98	LE	adapted to fax & data
	06-Jul-01	JHU	Converted to TAP2

### 3.4.23 CC119: Confirmation from MMI (U7)

**Description:** While in the state CALL RECEIVED (U7) CC receives a MNCC-SETUP response primitive from MMI to indicate that the call has been accepted. CC builds a CONNECT message, sends this in the form of a MMCC-DATA request primitive to MM, starts the T313 timer and enters the state CONNECT REQUEST (U8). (Ref. [1] 5.2.2.5)

**Preamble:** CC112



#### Parametrization

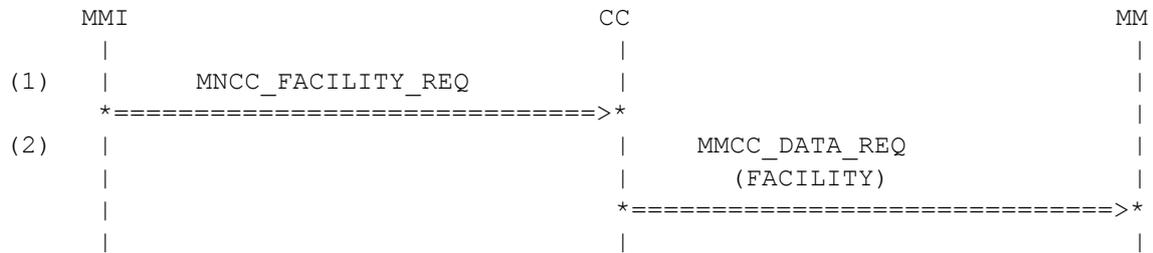
Primitive	Parameter	Value
(1) MNCC_SETUP_RES	ti	TI_MT_1_RESP
(2) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_CONNECT
	ti	TI_MT_1_RESP
	facility	NOT_USED
	connect_subaddr	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	}	

History:	Date	Author	Description
	25-Apr-97	DL	Initial
	15-Jul-97	VK	direction is UPLINK (was DOWNLINK)
	15-Jul-97	VK	connect_subaddr is new
	04-Aug-97	VK	d1,d2 added
	27-Jul-98	LE	adapted to fax & data
	06-Jul-01	JHU	Converted to TAP2

### 3.4.24 CC123: Facility information element sent to network (U8)

**Description:** CC receives a MNCC-FACILITY request primitive from MMI. CC builds a FACILITY message and sends this as part of a MNCC-DATA request primitive to MM.

**Preamble:** CC113A



#### Parametrization

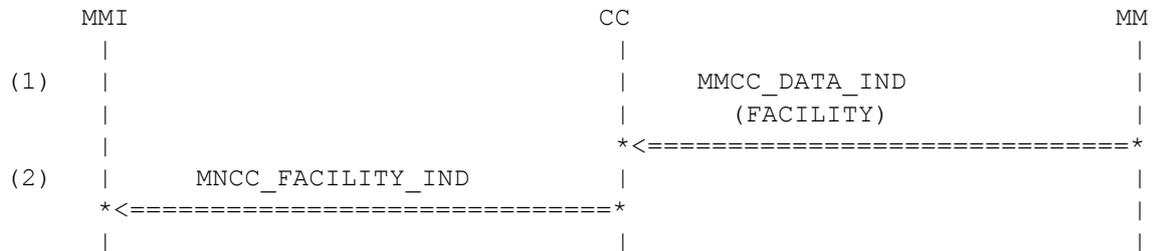
Primitive	Parameter	Value
(1) MNCC_FACILITY_REQ	ti	TI_MT_1_RESP
	fac_inf	FACILITY_A_FAC
	ss_version	NOT_USED
(2) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_FACILITY
	ti	TI_MT_1_RESP
	facility	FACILITY_A
	ss_version	NOT_USED
	}	

History:	Date	Author	Change
	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	11-Nov-97	LE	revised
	27-Jul-98	LE	adapted to fax & data
	06-Jul-01	JHU	Converted to TAP2

### 3.4.25 CC124: Facility information element received from network (U8)

**Description:** CC receives a FACILITY message from the network as part of a MMCC-DATA indication primitive. CC informs MMI by issuing a MNCC-FACILITY indication primitive.

**Preamble:** CC113A



**Parametrization**

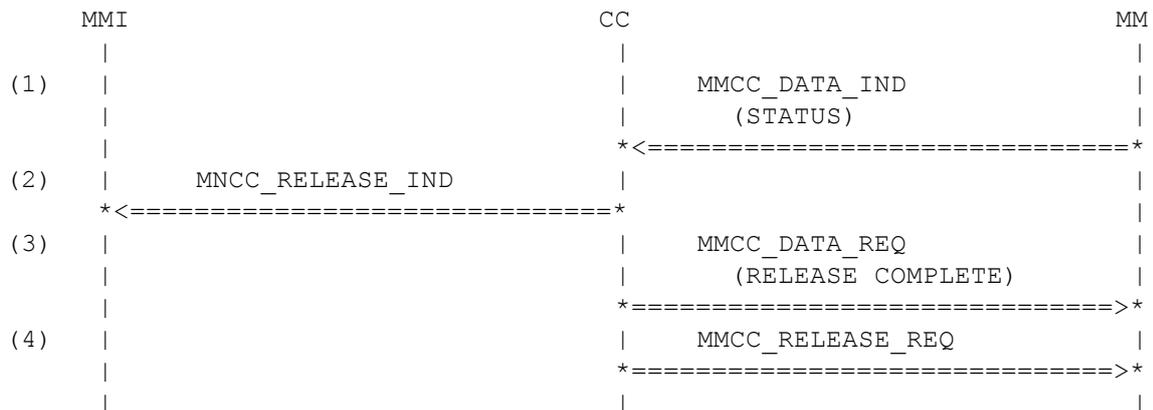
Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_FACILITY
	ti	TI_MT_1
	facility	FACILITY_A
	}	
(2) MNCC_FACILITY_IND	ti	TI_MT_1_RESP
	fac_context	FAC_IN_FACILITY
	fac_inf	FACILITY_A_FAC

History:	Date	Author	Change
	25-Apr-97	DL	Initial
	15-Jul-97	VK	revised
	31-Jul-97	VK	preamble is cc113a
	04-Aug-97	VK	d1,d2 added
	27-Jul-98	LE	adapted to fax & data
	06-Jul-01	JHU	Converted to TAP2

### 3.4.26 CC125: STATUS message with different call state received from network (U8)

**Description:** CC receives a STATUS message from the network in the form of a MMCC-DATA indication primitive while in the state U8. The call state in the message received is not identical to the current call state of CC, whereby CC immediately issues a RELEASE COMPLETE message as part of a MMCC-DATA request primitive followed by a MMCC-RELEASE request primitive.

**Preamble:** CC113A



#### Parametrization

Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	B_STATUS
	ti	TI_MT_1
	cc_cause	CC_CAUSE_UNSPECIFIED
	call_state	CALL_STATE_CS_9
	aux_states	NOT_USED
	}	
	(2) MNCC_RELEASE_IND	ti
cause		
MNCC_CAUSE_MS_MESSAGE_INCOMPAT		
(3) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK

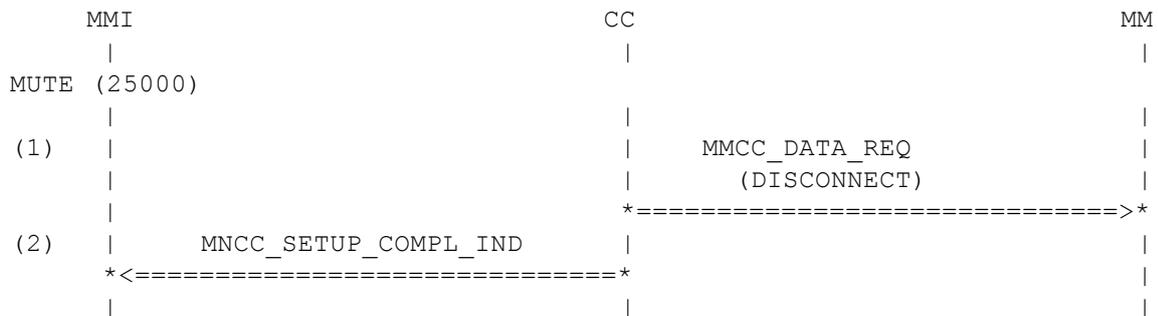
	pd	U_RELEASE_COMP
	ti	TI_MT_1_RESP
	cc_cause	CC_CAUSE_MSG_B_STATUS_2
	facility	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	}	
( 4 )	MMCC_RELEASE_REQ	
	ti	TI_MT_1_RESP

History:	25-Apr-97	DL	Initial
	31-Jul-97	VK	preamble is cc113a
	04-Aug-97	VK	d1,d2 added
	27-Jul-98	LE	adapted to fax & data
	06-Jul-01	JHU	Converted to TAP2

### 3.4.27 CC126: No response from the network (U8)

**Description:** While in the state CONNECT REQUEST (U8) CC receives no response from the network before the T313 timer expires. CC builds a DISCONNECT message and sends this as part of a MMCC-DATA request primitive to MM. CC then sends a MNCC-SETUP-COMPL indication primitive to MMI and enters the state DISCONNECT REQUEST (U11). (Ref. [1] 5.2.2.6)

**Preamble:** CC113A



#### Parametrization

Primitive	Parameter	Value
(1) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_DISCONNECT
	ti	TI_MT_1_RESP
	cc_cause	CC_CAUSE_TIMER_313
	facility	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	}	
(2) MNCC_SETUP_COMPL_IND	ti	TI_MT_1_RESP
	cause	MNCC_CAUSE_MS_TIMER

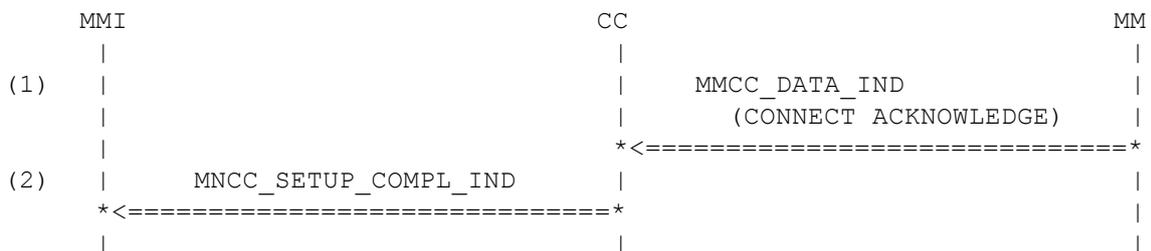
History:	Date	Author	Change
	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	27-Jul-98	LE	adapted to fax & data
	06-Jul-01	JHU	Converted to TAP2

### 3.4.28 CC130: CONNECT ACKNOWLEDGE message received (U8)

**Description:** While in the state CONNECT REQUEST (U8) CC receives a CONNECT ACKNOWLEDGE message as part of a MMCC-DATA indication primitive to confirm that a connection has been established. CC then stops the T313 timer, enters the state ACTIVE (U10) and issues a MNCC-SETUP-COMPL indication primitive to MMI. (Ref. [1] 5.2.2.6)

**Variants:** <A>..<E>

**Preamble:**  
 <A>CC113A  
 <B>CC113B  
 <C>CC113C  
 <D>CC113D  
 <E>CC113E



**Parametrization**

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	{
	component	CC
	direction	DOWNLINK
	pd	B_CONNECT_ACK
	ti	TI_MT_1
	}	
(2) MNCC_SETUP_COMPL_IND	ti	TI_MT_1_RESP
	cause	MNCC_CAUSE_SUCCESS

**History:**

25-Apr-97	DL	Initial
31-Jul-97	VK	preamble is cc113a
31-Jul-97	VK	variants <A> .. <C>
04-Aug-97	VK	d1,d2 added
27-Jul-98	LE	adapted to fax & data
06-Jul-01	JHU	Converted to TAP2
26-Nov-01	OT	Variant <E> for AMR added.

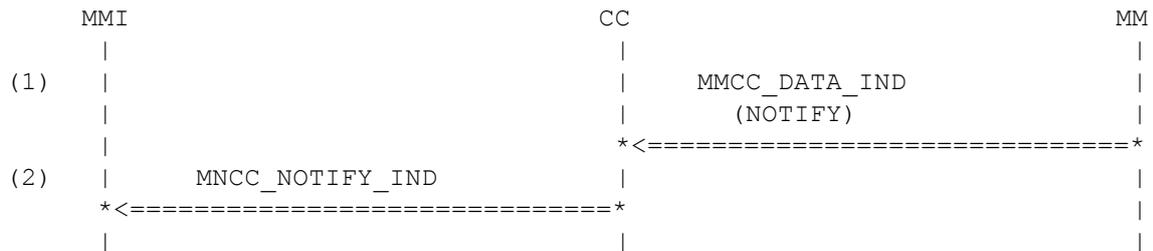
### 3.5 Call Active (state = U10)

#### 3.5.1 CC221: Notification received from network

**Description:** CC receives a NOTIFY message from the network as part of a MMCC-DATA indication primitive. CC informs MMI by issuing a MNCC-NOTIFY indication primitive. (Ref. [1] 5.3.1)

**Preamble:** CC053

**Variants:** <A>....<C>



**Parametrization**

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	B_NOTIFY
	ti	TI_MO_5_RESP
<A>	notific	NOTIFIC_USER_SUSPEND
<B>	notific	NOTIFIC_USED_RESUME
<C>	notific	NOTIFIC_BEARER_CHANGE
	}	
(2) MNCC_NOTIFY_IND	ti	TI_MO_5
<A>	nd	ND_USER_SUSPEND
<B>	nd	ND_USED_RESUME
<C>	nd	ND_BEARER_CHANGE

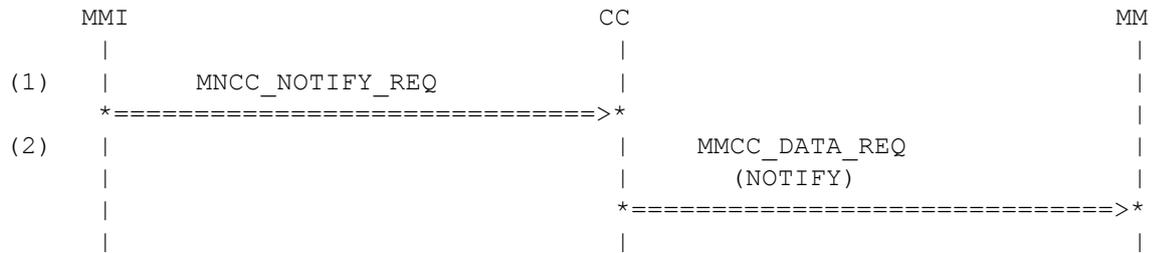
<b>History:</b>	25-Apr-97	DL	Initial
	16-Jul-97	VK	use TI_MO_5 instead of TI_MT_9
	16-Jul-97	VK	introduce NOTIFIC_* names
	16-Jul-97	VK	revise MNCC_NOTIFY_IND params
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.5.2 CC222: Notification sent to network

**Description:** CC receives a MNCC-NOTIFY request primitive from MMI. CC builds a NOTIFY message and sends this as part of a MMCC-DATA request primitive to MM. (Ref. [1] 5.3.1)

**Preamble:** CC053

**Variants:** <A>....<C>



#### Parametrization

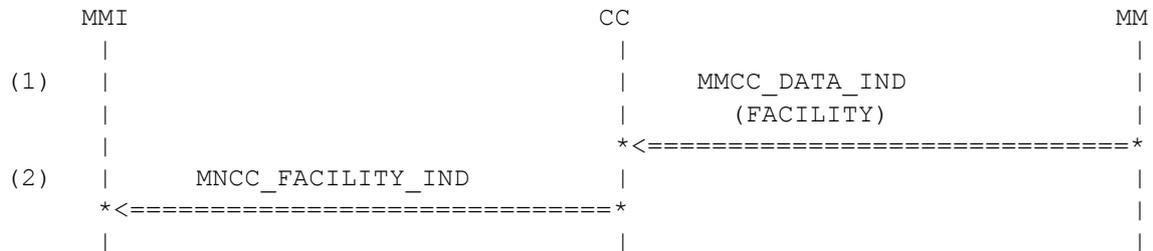
Primitive	Parameter	Value	
(1) MNCC_NOTIFY_REQ	ti	TI_MO_5	
	<A>	nd	
	<B>	nd	
	<C>	nd	
(2) MMCC_DATA_REQ	d1	NOT_USED	
	d2	NOT_USED	
	sdu		
	{		
	component	CC	
	direction	UPLINK	
	pd	B_NOTIFY	
	ti	TI_MO_5	
	<A>	notific	NOTIFIC_USER_SUSPEND
	<B>	notific	NOTIFIC_USED_RESUME
	<C>	notific	NOTIFIC_BEARER_CHANGE
		}	

History:	Date	Author	Description
	25-Apr-97	DL	Initial
	16-Jul-97	VK	use TI_MO_5 instead of TI_MT_9
	16-Jul-97	VK	revise parms
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.5.3 CC223: Facility information element received from network

**Description:** CC receives a FACILITY message from the network as part of a MMCC-DATA indication primitive. CC informs MMI by issuing a MNCC-FACILITY indication primitive.

**Preamble:** CC053



**Parametrization**

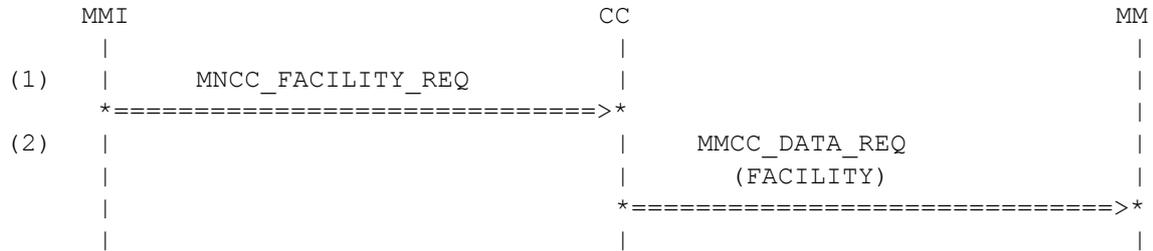
Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_FACILITY
	ti	TI_MO_5_RESP
	facility	FACILITY_A
	}	
(2) MNCC_FACILITY_IND	ti	TI_MO_5
	fac_context	FAC_IN_FACILITY
	fac_inf	FACILITY_A_FAC

History:	Date	Author	Change
	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	11-Nov-97	LE	revised
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.5.4 CC224: Facility information element sent to network

**Description:** CC receives a MNCC-FACILITY request primitive from MMI. CC builds a FACILITY message and sends this as part of a MNCC-DATA request primitive to MM.

**Preamble:** CC053



**Parametrization**

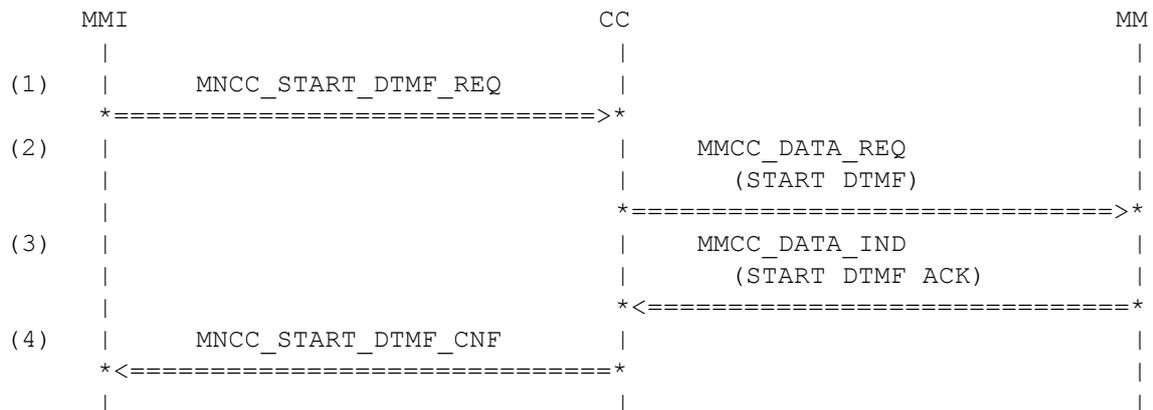
Primitive	Parameter	Value
(1) MNCC_FACILITY_REQ	ti	TI_MO_5
	fac_inf	FACILITY_A_FAC
	ss_version	NOT_USED
(2) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_FACILITY
	ti	TI_MO_5
	facility	FACILITY_A
	ss_version	NOT_USED
	}	

History:	Date	Author	Change
	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	11-Nov-97	LE	revised
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.5.5 CC225: Start Dual Tone Multi Frequency (DTMF)

**Description:** CC receives a MNCC-START-DTMF request primitive from MMI, requesting that DTMF tones be sent. CC builds a START DTMF message and sends this in the form of a MMCC-DATA request primitive to MM. On receipt of a START DTMF ACK message in the form of a MMCC-DATA indication primitive from MM, CC issues a MNCC-START-DTMF indication primitive. (Ref. [1] 5.5.7.1-2)

**Preamble:** CC032



#### Parametrization

Primitive	Parameter	Value
(1) MNCC_START_DTMF_REQ	ti	TI_MO_5
	key	DIG_9
	dtmf_mod	DTMF_MOD_AUTO
(2) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_START_DTMF
	ti	TI_MO_5
	key_facility	KEY_FACILITY_9
	}	
(3) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
pd	D_START_DTMF_ACK	
ti	TI_MO_5_RESP	

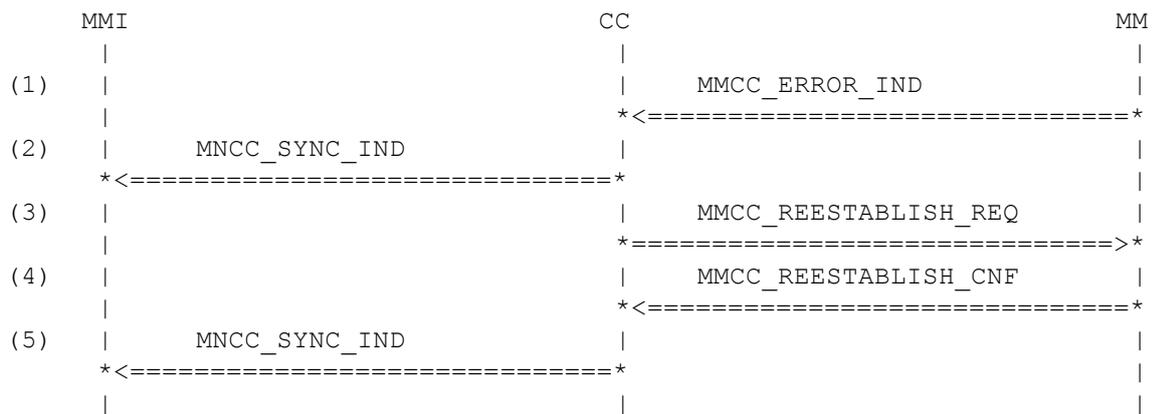
		key_facility	KEY_FACILITY_9
		}	
( 4 )	MNCC_START_DTMF_CNF		
		ti	TI_MO_5
		key	DIG_9
		cause	
	MNCC_CAUSE_DTMF_START_SUCCESS		
		dtmf_mod	DTMF_MOD_AUTO
History:	25-Apr-97	DL	Initial
	30-Jul-97	VK	revised
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	25-Jan-00	HM	added dtmf_mod
	09-Jul-01	JHU	Converted to TAP2



### 3.5.7 CC228: Connection interrupted – reestablishment successful

**Description:** CC receives a MNCC-ERROR indication primitive from MM indicating that the connection has been interrupted but that reestablishment is permitted. CC issues a MNCC-SYNC indication primitive to MMI and a MMCC-REESTABLISH request primitive to MM. CC receives a MMCC-REESTABLISH confirmation primitive, indication that reestablishment has been successful, whereupon it issues a MNCC-SYNC indication primitive and enters the state Active Pending (U10.1). (Ref. [1] 5.5.4)

**Preamble:** CC053



**Parametrization**

	<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1)	MMCC_ERROR_IND	ti	TI_MO_5
		cause	RRCS_ABORT_RAD_LNK_FAIL
(2)	MNCC_SYNC_IND	ti	TI_MO_5
		cause	MNCC_CAUSE_REEST_STARTED
		chm	NOT_USED
(3)	MMCC_REESTABLISH_REQ	ti	TI_MO_5
(4)	MMCC_REESTABLISH_CNF	ti	TI_MO_5
(5)	MNCC_SYNC_IND	ti	TI_MO_5
		cause	MNCC_CAUSE_REEST_FINISHED
		chm	NOT_USED

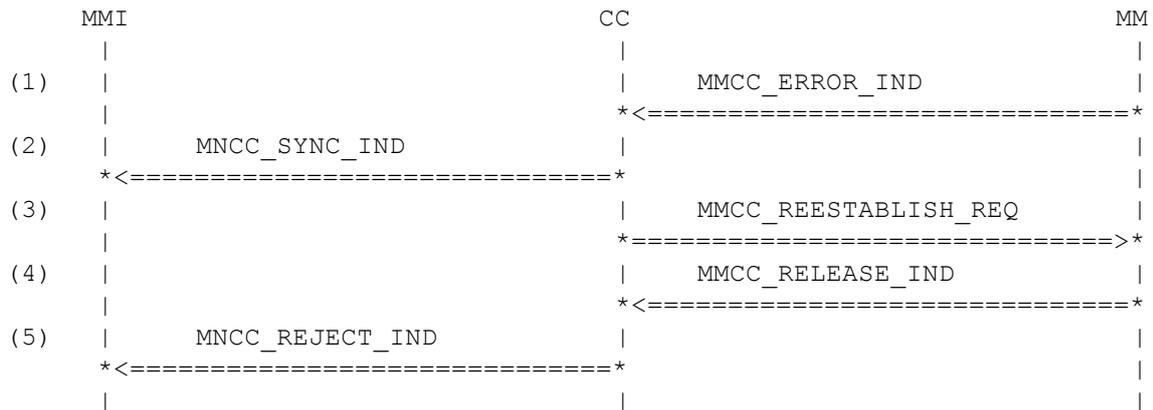
**History:** 25-Apr-97 DL Initial  
30-Jul-97 VK revised

28-Jul-98	LE	adapted to fax & data
09-Jul-01	JHU	Converted to TAP2

### 3.5.8 CC229: Connection interrupted – reestablishment unsuccessful

**Description:** CC receives a MNCC-ERROR indication primitive from MM indicating that the connection has been interrupted but that reestablishment is permitted. CC issues a MNCC-SYNC indication primitive to MMI and a MMCC-REESTABLISH request primitive to MM. CC receives a MMCC-RELEASE indication primitive, indicating that reestablishment has not been successful, whereupon it issues a MNCC-REJECT indication primitive to MMI and enters the state Null (U0). (Ref. [1] 5.5.4)

**Preamble:** CC053



**Parametrization**

Primitive	Parameter	Value
(1) MNCC_ERROR_IND	ti	TI_MO_5
	cause	RRCS_ABORT_RAD_LNK_FAIL
(2) MNCC_SYNC_IND	ti	TI_MO_5
	cause	MNCC_CAUSE_REEST_STARTED
	chm	NOT_USED
(3) MMCC_REESTABLISH_REQ	ti	TI_MO_5
(4) MMCC_RELEASE_IND	ti	TI_MO_5
	cause	RRCS_DL_EST_FAIL
(5) MNCC_REJECT_IND	ti	TI_MO_5
	cause	RRCS_DL_EST_FAIL

History:	25-Apr-97	DL	Initial
	30-Jul-97	VK	revised
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.5.9 CC230: STATUS ENQUIRY message received from network

**Description:** CC receives a STATUS ENQUIRY message from the network as part of a MMCC-DATA indication primitive. It responds by building a STATUS message and sending this as part of a MMCC-DATA request primitive. (Ref. [1] 5.5.3.1)

**Preamble:** CC053

```

      MMI                                     CC                                     MM
      |                                     |                                     |
(1)  |                                     |   MMCC_DATA_IND                 |
      |                                     |   (STATUS ENQUIRY)                 |
      |                                     | *<=====*                         |
(2)  |   MNCC_STATUS_IND                 |                                     |
      | *<=====*                         |                                     |
MUTE (500)
(3)  |   MNCC_STATUS_RES                 |                                     |
      | *=====*>                         |                                     |
(4)  |                                     |   MMCC_DATA_REQ                 |
      |                                     |   (STATUS)                     |
      |                                     | *=====*>                         |
MUTE (500)
      |                                     |                                     |

```

#### Parametrization

Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	B_STATUS_ENQ
	ti	TI_MO_5_RESP
}		
(2) MNCC_STATUS_IND	ti	TI_MO_5
(3) MNCC_STATUS_RES	ti	TI_MO_5
(4) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	B_STATUS
ti	TI_MO_5	
cc_cause	CC_CAUSE_STATUS_ENQ	

```

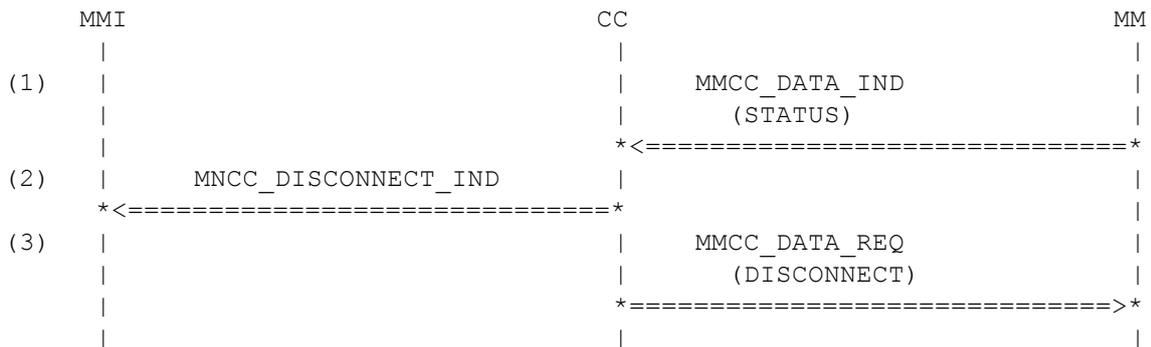
call_state      CALL_STATE_CS_10
aux_states      NOT_USED
}
    
```

History:	25-Apr-97	DL	Initial
	30-Jul-97	VK	cc_cause revised
	30-Jul-97	VK	state is CS_10 with CC053
	30-Jul-97	VK	aux_states NOT_USED
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2
	28-Nov-02	HM	Revised

### 3.5.10 CC231: STATUS message received from network: state compatible

**Description:** CC receives a STATUS message from the network as part of a MMCC-DATA indication primitive. The state is compatible, whereupon CC responds by issuing a MNCC-DISCONNECT indication primitive to MMI. It then builds a DISCONNECT message and sends this as part of a MMCC-DATA request primitive to MM. (Ref. [1] 5.5.3.2)

**Preamble:** CC053



#### Parametrization

Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	B_STATUS
	ti	TI_MO_5_RESP
	cc_cause	CC_CAUSE_MSG_B_STATUS
	call_state	CALL_STATE_CS_10
	aux_states	NOT_USED
	}	

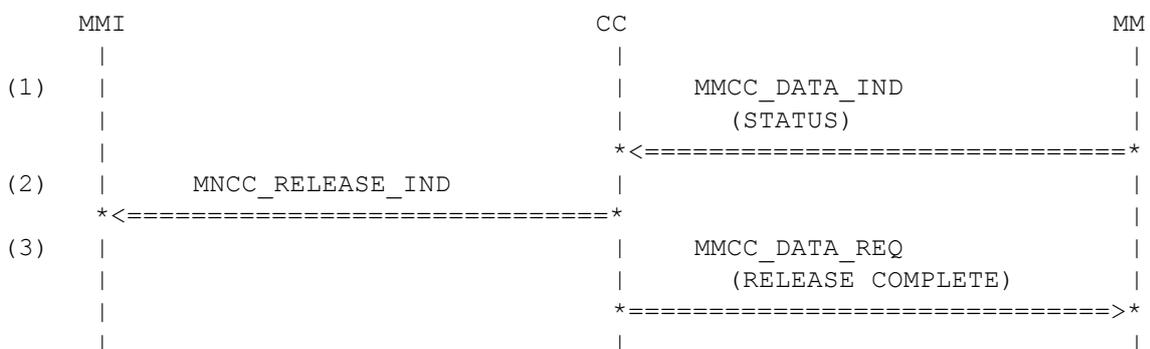
(2)	MNCC_DISCONNECT_IND	ti	TI_MO_5
		cause	
	MNCC_CAUSE_MESSAGE_TYPE_INCOMPAT	diagnostic	NOT_USED
		progress_desc	NOT_USED
(3)	MMCC_DATA_REQ	d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	U_DISCONNECT
		ti	TI_MO_5
		cc_cause	CC_CAUSE_CALL_CLEAR
		facility	NOT_USED
		user_user	NOT_USED
		ss_version	NOT_USED
		}	

History:	25-Apr-97	DL	Initial
	30-Jul-97	VK	state is CS_10 with CC053
	30-Jul-97	VK	use CC_CAUSE_MSG_INCOMPAT
	30-Jul-97	VK	MNCC_DISCONNECT_IND revised
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.5.11 CC232: STATUS message received from network: state incompatible

**Description:** CC receives a STATUS message from the network as part of a MMCC-DATA indication primitive. The state is incompatible, whereupon CC responds by issuing a MNCC-RELEASE indication primitive to MMI. It then builds a RELEASE COMPLETE message and sends this as part of a MMCC-DATA request primitive to MM. (Ref. [1] 5.5.3.2)

**Preamble:** CC053



#### Parametrization

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

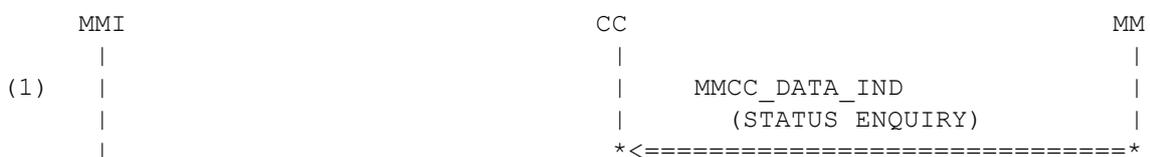
- (1) MMCC\_DATA\_IND
  - d1 NOT\_USED
  - d2 NOT\_USED
  - sdu
  - {
  - component CC
  - direction DOWNLINK
  - pd B\_STATUS
  - ti TI\_MO\_5\_RESP
  - cc\_cause CC\_CAUSE\_UNSPECIFIED
  - call\_state CALL\_STATE\_CS\_0
  - aux\_states NOT\_USED
  - }
  
- (2) MNCC\_RELEASE\_IND
  - ti TI\_MO\_5
  - cause
  - MNCC\_CAUSE\_MS\_MESSAGE\_INCOMPAT
  
- (3) MMCC\_DATA\_REQ
  - d1 NOT\_USED
  - d2 NOT\_USED
  - sdu
  - {
  - component CC
  - direction UPLINK
  - pd U\_RELEASE\_COMP
  - ti TI\_MO\_5
  - cc\_cause CC\_CAUSE\_MSG\_B\_STATUS\_2
  - facility NOT\_USED
  - user\_user NOT\_USED
  - ss\_version NOT\_USED
  - }

History:	25-Apr-97	DL	Initial
	30-Jul-97	VK	U_RELEASE_COM renamed to ...
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.5.12 CC233: STATUS ENQUIRY message received from network, non-active

**Description:** CC receives a STATUS ENQUIRY message from the network as part of a MMCC-DATA indication primitive. It responds by building a STATUS message and sending this as part of a MMCC-DATA request primitive. (Ref. [1] 5.5.3.1)

**Preamble:** CC033



```

(2) | | MMCC_DATA_REQ |
    | | (STATUS) |
    | | *=====>* |
MUTE (500) | | |
    | | | |
    
```

**Parametrization**

Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	B_STATUS_ENQ
	ti	TI_MO_5_RESP
	}	
	(2) MMCC_DATA_REQ	d1
d2		NOT_USED
sdu		
{		
component		CC
direction		UPLINK
pd		B_STATUS
ti		TI_MO_5
cc_cause		CC_CAUSE_STATUS_ENQ
call_state		CALL_STATE_CS_3
aux_states	NOT_USED	
}		

History: 28-Nov-02 HM Initial

**3.5.13 CC243: HOLD requested by mobile station**

**Description:** MMI requests the current call to be held by issuing a MNCC-HOLD request primitive. CC builds a HOLD message and forwards this to MM in the form of a MMCC-DATA request primitive.

**Preamble:** CC032

```

MMI | CC | MM
(1) | MNCC_HOLD_REQ | |
    | *=====>* | |
(2) | | MMCC_DATA_REQ | |
    | | (HOLD) | |
    | | *=====>* | |
    | | | |
    
```

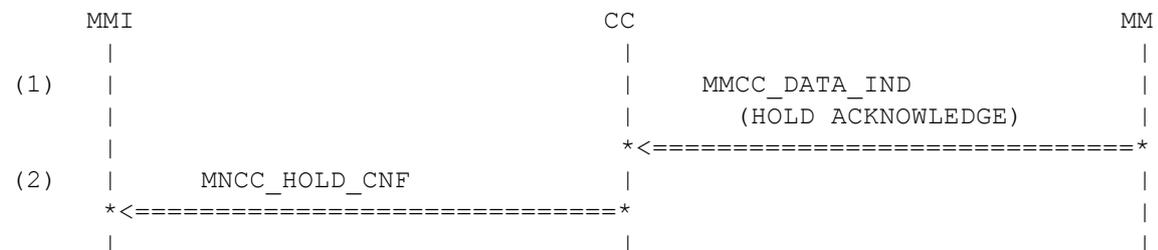
**Parametrization**

Primitive	Parameter	Value	
(1) MNCC_HOLD_REQ	ti	TI_MO_5	
(2) MMCC_DATA_REQ	d1	NOT_USED	
	d2	NOT_USED	
	sdu		
	{		
	component	CC	
	direction	UPLINK	
	pd	U_HOLD	
	ti	TI_MO_5	
	}		
History:	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	11-Nov-97	LE	revised
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.5.14 CC244: Network acknowledges HOLD request by mobile station

**Description:** CC receives a HOLD ACKNOWLEDGE message in the form of a MMCC-DATA indication primitive, indicating that the connection is being held as requested, whereby CC then informs MMI by issuing a MNCC-HOLD confirmation primitive.

**Preamble:** CC243



#### Parametrization

Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_HOLD_ACK
	ti	TI_MO_5_RESP
	}	

(2) MNCC\_HOLD\_CNF

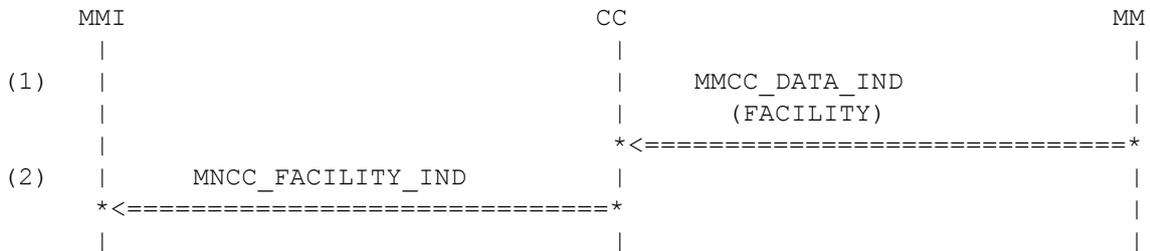
ti TI\_MO\_5  
 cause MNCC\_CAUSE\_HOLD\_SUCCESS

History: 25-Apr-97 DL Initial  
 04-Aug-97 VK d1,d2 added  
 11-Nov-97 LE revised  
 28-Jul-98 LE adapted to fax & data  
 09-Jul-01 JHU Converted to TAP2

**3.5.15 CC245: Network acknowledges HOLD request with FACILITY message**

**Description:** CC receives a FACILITY message in the form of a MMCC-DATA indication primitive, indicating that the connection is being held as requested, whereby CC then informs MMI by issuing a MNCC-FACILITY confirmation primitive.

**Preamble:** CC243



**Parametrization**

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

(1) MMCC\_DATA\_IND

d1 NOT\_USED  
 d2 NOT\_USED  
 sdu  
 {  
 component CC  
 direction DOWNLINK  
 pd D\_FACILITY  
 ti TI\_MO\_5\_RESP  
 facility FACILITY\_A  
 }

(2) MNCC\_FACILITY\_IND

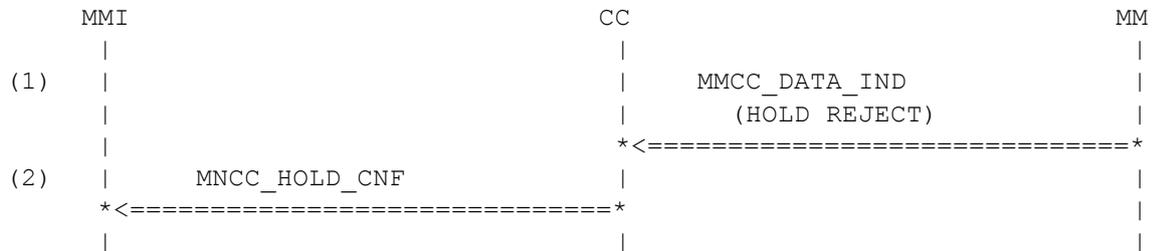
ti TI\_MO\_5  
 fac\_context FAC\_IN\_FACILITY  
 fac\_inf FACILITY\_A\_FAC

History: 25-Apr-97 DL Initial  
 04-Aug-97 VK d1,d2 added  
 11-Nov-97 LE revised  
 28-Jul-98 LE adapted to fax & data  
 09-Jul-01 JHU Converted to TAP2

### 3.5.16 CC246: Network rejects HOLD request by mobile station

**Description:** CC receives a HOLD ACKNOWLEDGE message in the form of a MMCC-DATA indication primitive, indicating that the connection cannot be held, whereby CC then informs MMI by issuing a MNCC-HOLD confirmation primitive.

**Preamble:** CC243



**Parametrization**

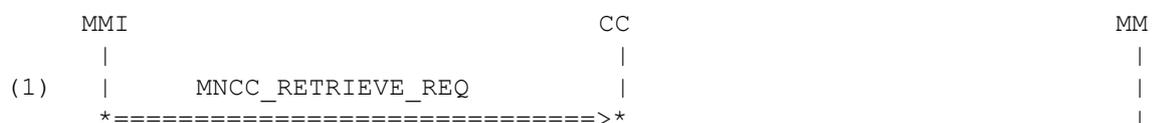
Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_HOLD_REJ
	ti	TI_MO_5_RESP
	cc_cause	CC_CAUSE_BEARER_CAP_AUTH
	}	
(2) MNCC_HOLD_CNF	ti	TI_MO_5
	cause	
	MNCC_CAUSE_BEARER_CAP_AUTHORIZ	

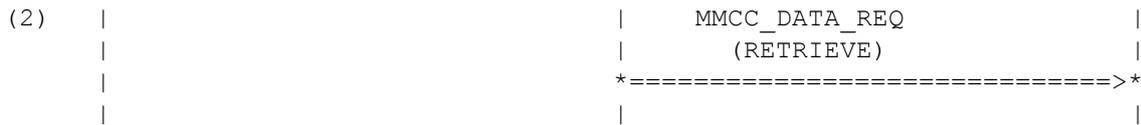
History:	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	11-Nov-97	LE	revised
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.5.17 CC247: RETRIEVE requested by mobile station

**Description:** MMI requests the currently call to be retrieved by issuing a MNCC-RETRIEVE request primitive. CC builds a RETRIEVE message and forwards this to MM in the form of a MMCC-DATA request primitive.

**Preamble:** CC244





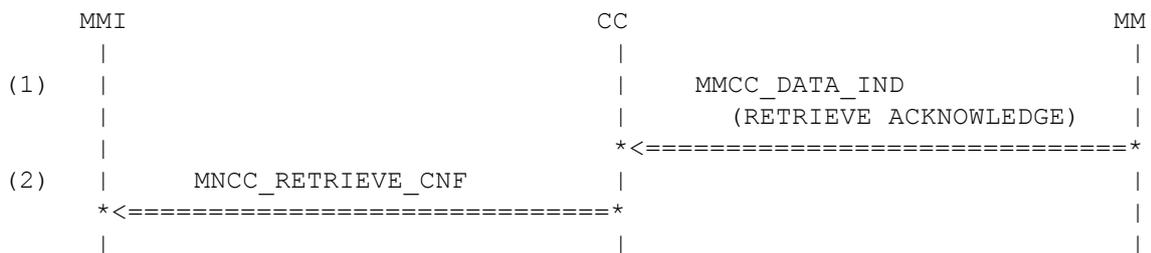
**Parametrization**

Primitive	Parameter	Value
(1) MNCC_RETRIEVE_REQ	ti	TI_MO_5
(2) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_RETRIEVE
	ti	TI_MO_5
	}	
	History:	25-Apr-97
	04-Aug-97	VK d1,d2 added
	11-Nov-97	LE revised
	28-Jul-98	LE adapted to fax & data
	09-Jul-01	JHU Converted to TAP2

**3.5.18 CC248: Network acknowledges RETRIEVE request by mobile station**

**Description:** CC receives a RETRIEVE ACKNOWLEDGE message in the form of a MMCC-DATA indication primitive, indicating that the held connection is being retrieved as requested, whereby CC then informs MMI by issuing a MNCC-RETRIEVE confirmation primitive.

**Preamble:** CC247



**Parametrization**

Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	}	

```

                                component      CC
                                direction      DOWNLINK
                                pd             D_RETRIEVE_ACK
                                ti            TI_MO_5_RESP
                                }

(2)  MNCC_RETRIEVE_CNF

                                ti            TI_MO_5
                                cause
                                MNCC_CAUSE_RETRIEVE_SUCCESS
    
```

History:

25-Apr-97	DL	Initial
04-Aug-97	VK	d1,d2 added
11-Nov-97	LE	revised
28-Jul-98	LE	adapted to fax & data
09-Jul-01	JHU	Converted to TAP2

### 3.5.19 CC249: Network acknowledges RETRIEVE request with FACILITY message

**Description:** CC receives a FACILITY message in the form of a MMCC-DATA indication primitive, indicating that the held connection is being retrieved as requested, whereby CC then informs MMI by issuing a MNCC-FACILITY confirmation primitive.

**Preamble:** CC247

```

MMI                                CC                                MM
|                                |                                |
(1) |                                | MMCC_DATA_IND            |
    |                                | (FACILITY)                |
    |                                | *<=====*>                |
(2) | MNCC_FACILITY_IND            |                                |
    |                                | *<=====*>                |
    |                                |                                |
    |                                |                                |
    
```

#### Parametrization

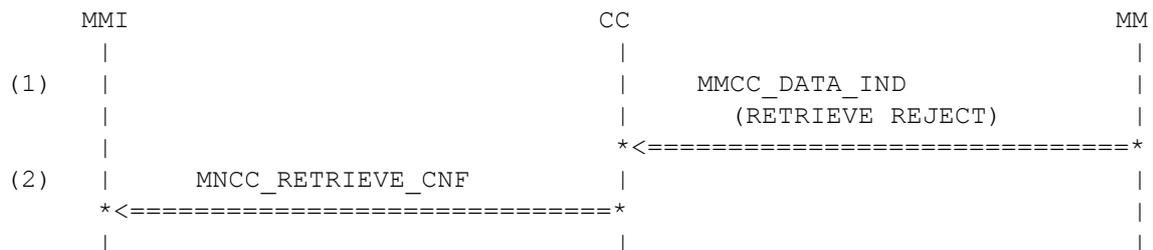
Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_FACILITY
	ti	TI_MO_5_RESP
	facility	FACILITY_A
	}	
	(2) MNCC_FACILITY_IND	ti
fac_context		FAC_IN_FACILITY
fac_inf		FACILITY_A_FAC

History:	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	11-Nov-97	LE	revised
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.5.20 CC250: Network rejects RETRIEVE request by mobile station

**Description:** CC receives a RETRIEVE REJECT message in the form of a MMCC-DATA indication primitive, indicating that the held connection cannot be retrieved, whereby CC then informs MMI by issuing a MNCC-RETRIEVE confirmation primitive.

**Preamble:** CC247



#### Parametrization

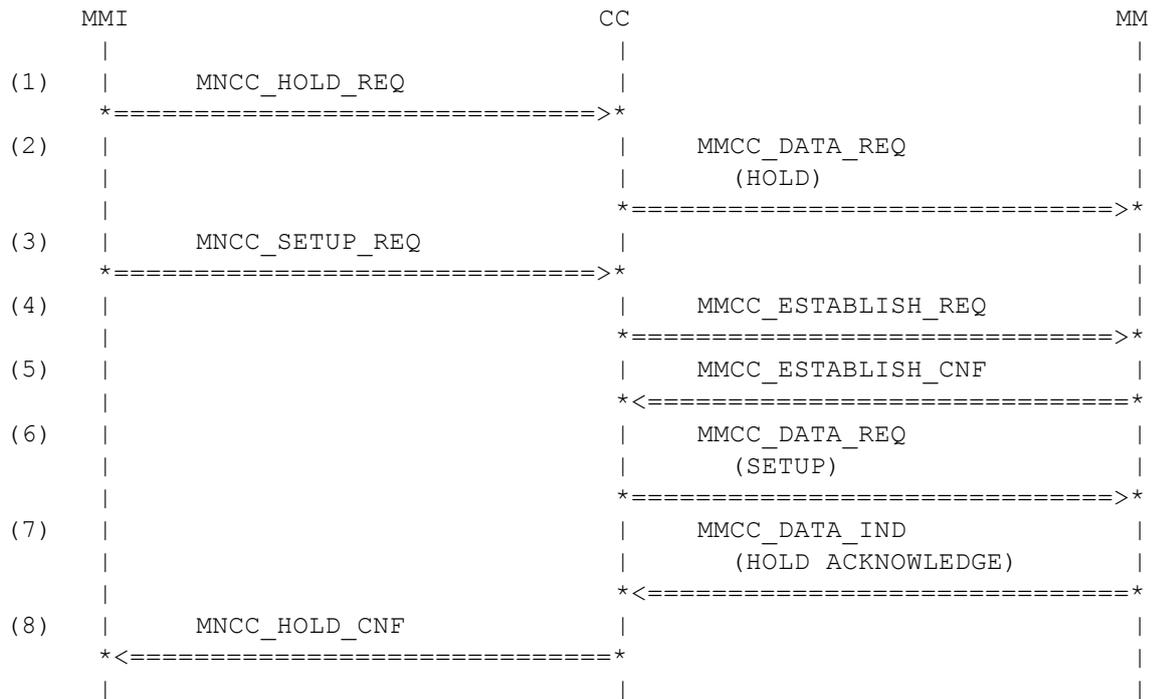
Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_RETRIEVE_REJ
	ti	TI_MO_5_RESP
	cc_cause	CC_CAUSE_UNSPECIFIED
	}	
(2) MNCC_RETRIEVE_CNF	ti	TI_MO_5
	cause	MNCC_CAUSE_UNSPECIFIED

History:	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.5.21 CC251: HOLD requested by mobile station followed by Call Establishment

**Description:** MMI requests the current call to be held by issuing a MNCC-HOLD request primitive. CC builds a HOLD message and forwards this to MM in the form of a MMCC-DATA request primitive. Then the MMI requests call establishment for a different transaction identifier.

**Preamble:** CC032



**Parametrization**

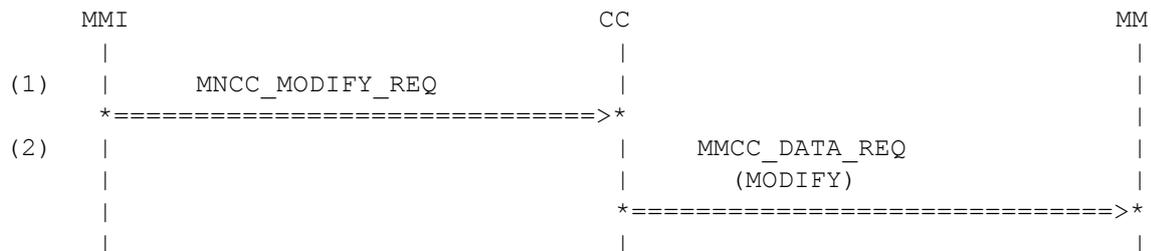
Primitive	Parameter	Value
(1) MNCC_HOLD_REQ	ti	TI_MO_5
(2) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_HOLD
	ti	TI_MO_5
	}	
(3) MNCC_SETUP_REQ	ti	TI_MO_6
	prio	PRIO_NORM_CALL
	ri	NOT_PRESENT_8BIT
	bcpara	BC_PARA_SPEECH
	bcpara2	BC_PARA_NO_SERVICE
	called_party	CLED_PARTY_654321
	called_party_sub	CLED_PARTY_SUB_NONE
	clir_sup	NOT_PRESENT_8BIT
	fac_inf	NOT_USED
(4) MMCC_ESTABLISH_REQ	ti	TI_MO_6
	estcs	ESTCS_MOB_ORIG_SPCH

( 5 )	MMCC_ESTABLISH_CNF	ti	TI_MO_6
( 6 )	MMCC_DATA_REQ	d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	U_SETUP
		ti	TI_MO_6
		repeat	NOT_USED
		bearer_cap	BC_SPEECH_FR
		bearer_cap_2	NOT_USED
		facility	NOT_USED
		calling_subaddr	NOT_USED
		ul_called_num	UL_CLED_NUM_654321
		called_subaddr	NOT_USED
		repeat_2	NOT_USED
		low_layer_comp	NOT_USED
		low_layer_comp_2	NOT_USED
		repeat_3	NOT_USED
		high_layer_comp	NOT_USED
		high_layer_comp_2	NOT_USED
		user_user	NOT_USED
		ss_version	NOT_USED
		clir_suppr	NOT_USED
		clir_invoc	NOT_USED
		call_ctrl_cap	CALL_CTRL_CAP_1
		}	
( 7 )	MMCC_DATA_IND	d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	DOWNLINK
		pd	D_HOLD_ACK
		ti	TI_MO_5_RESP
		}	
( 8 )	MNCC_HOLD_CNF	ti	TI_MO_5
		cause	MNCC_CAUSE_HOLD_SUCCESS
History:	02-Feb-99	LE	Initial
	09-Jul-01	JHU	Converted to TAP2

### 3.5.22 CC261: In-call modification started by MMI (Mobile Originated)

**Description:** MMI initiates in-call modification by issuing a MNCC-g request primitive. CC checks that no hold, retrieve or DTMF procedure is currently active before building a MODIFY message and forwarding this to MM in the form of a MMCC-DATA request primitive. The T323 timer is started and CC enters the state MO MODIFY (U26). (Ref. [1] 5.3.4.3.1)

**Preamble:** CC032



#### Parametrization

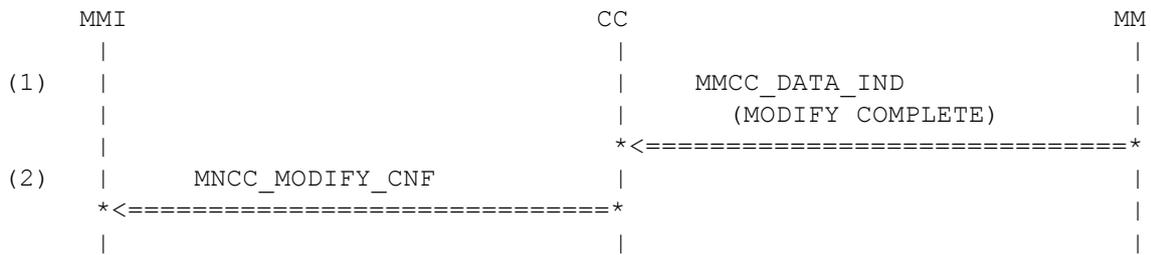
Primitive	Parameter	Value
(1) MNCC_MODIFY_REQ	ti	TI_MO_5
	serv	SERV_DATA
(2) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	{
	component	CC
	direction	UPLINK
	pd	B_MODIFY
	ti	TI_MO_5
	bearer_cap	NOT_USED
	low_layer_comp	NOT_USED
	high_layer_comp	NOT_USED
	reverse_call	NOT_USED
	}	
History:	25-Apr-97	DL Initial
	31-Jul-97	VK 1 <sup>st</sup> prim was MNCC_RETRIEVE_REQ
	31-Jul-97	VK 1 <sup>st</sup> prim is MNCC_MODIFY_REQ
	31-Jul-97	VK reverse_call...NOT_USED
	04-Aug-97	VK d1,d2 added
	28-Jul-98	LE adapted to fax & data
	09-Jul-01	JHU Converted to TAP2

### 3.5.23 CC262: In-call modification successful (Mobile Originated)

**Description:** CC receives a MODIFY COMPLETE message as part of a MMCC-DATA indication primitive, indicating that in-call modification has been successful. CC issues a

MNCC-MODIFY confirmation primitive, stops the T323 timer reenters the state ACTIVE (U10). (Ref. [1] 5.3.4.3.2)

**Preamble:** CC261



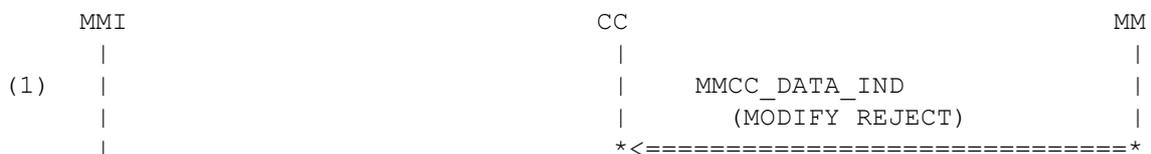
**Parametrization**

Primitive	Parameter	Value	
(1) MMCC_DATA_IND	d1	NOT_USED	
	d2	NOT_USED	
	sdu		
	{		
	component	CC	
	direction	DOWNLINK	
	pd	B_MODIFY_COMP	
	ti	TI_MO_5_RESP	
	bearer_cap	BC_SPEECH_FR	
	low_layer_comp	NOT_USED	
	high_layer_comp	NOT_USED	
	reverse_call	NOT_USED	
	}		
(2) MNCC_MODIFY_CNF	ti	TI_MO_5	
	cause	MNCC_CAUSE_MODIFY_SUCCESS	
History:	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

**3.5.24 CC263: In-call modification unsuccessful (Mobile Originated)**

**Description:** CC receives a MODIFY REJECT message as part of a MMCC-DATA indication primitive, indicating that in-call modification has not succeeded. CC issues a MNCC-MODIFY confirmation primitive, stops the T323 timer reenters the state ACTIVE (U10). (Ref. [1] 5.3.4.3.4)

**Preamble:** CC261



```
(2) | MNCC_MODIFY_CNF | |
    | *<===== | |
    | | | |
```

**Parametrization**

Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	B_MODIFY_REJ
	ti	TI_MO_5_RESP
	bearer_cap	NOT_USED
	cc_cause	CC_CAUSE_UNSPECIFIED
	low_layer_comp	NOT_USED
	high_layer_comp	NOT_USED
	}	
	(2) MNCC_MODIFY_CNF	ti
cause		MNCC_CAUSE_UNSPECIFIED

History:	Date	Author	Description
	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

**3.5.25 CC264: No response to in-call modification request (Mobile Originated)**

**Description:** The T323 timer expires without the network having responded. CC releases the call, sends a DISCONNECT message to the network as part of a MMCC-DATA request primitive and issues a MNCC-MODIFY confirmation primitive. (Ref. [1] 5.3.4.3.4)

**Preamble:** CC261

```
MMI | CC | MM
    | | |
MUTE (25000)
(1) | MMCC_DATA_REQ | |
    | (DISCONNECT) | |
    | *=====> | |
(2) | MNCC_MODIFY_CNF | |
    | *<===== | |
    | | | |
```

**Parametrization**

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

## (1) MMCC\_DATA\_REQ

```

d1          NOT_USED
d2          NOT_USED
sdu
{
component   CC
direction   UPLINK
pd          U_DISCONNECT
ti          TI_MO_5
cc_cause    CC_CAUSE_TIMER_323
facility     NOT_USED
user_user   NOT_USED
ss_version  NOT_USED
}

```

## (2) MNCC\_MODIFY\_CNF

```

ti          TI_MO_5
cause      MNCC_CAUSE_MS_TIMER

```

History:	25-Apr-97	DL	Initial
	31-Jul-97	VK	'TIMEOUT (5)' removed
	31-Jul-97	VK	use CC_CAUSE_TIMER_323
	04-Aug-97	VK	d1,d2 added
	04-Aug-97	VK	use MNCC_MODIFY_IND
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

**3.5.26 CC267: Successful reestablishment during modification (Mobile Originated)**

**Description:** CC receives after initiation of the mobile originated in-call modification an MNCC-ERROR indication primitive from MM indicating that the connection has been interrupted but that reestablishment is permitted. CC issues an MNCC-SYNC indication primitive to MMI and an MMCC-REESTABLISH request primitive to MM. CC receives an MMCC-REESTABLISH confirmation primitive, indication that reestablishment has been successful, whereupon it issues an MNCC-SYNC indication primitive and (re-)enters the state Mobile Originating Modify (U26). The status enquiry procedure is used to verify this.

**Preamble:** CC261

	MMI	CC	MM
(1)			
		MMCC_ERROR_IND	
		*<=====*	
(2)	MNCC_SYNC_IND		
	*<=====*		
(3)		MMCC_REESTABLISH_REQ	
		*=====>	
(4)		MMCC_REESTABLISH_CNF	
		*<=====*	
(5)	MNCC_SYNC_IND		
	*<=====*		
(6)		MMCC_DATA_IND	
		(STATUS ENQUIRY)	

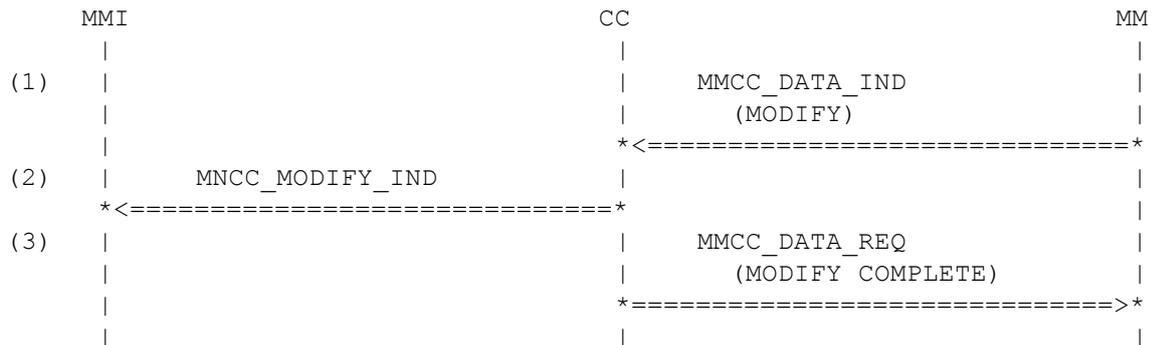


History: 27-Sep-02 SBK Initial (issue 4992)

### 3.5.27 CC265: In-call modification accepted by MS (Mobile Terminated)

**Description:** CC receives a MODIFY message as part of a MMCC-DATA indication primitive, indicating that the network wishes to start in-call modification. The mobile is able to accept the modification, whereby CC issues a MNCC-MODIFY indication primitive to MMI and sends a MODIFY\_COMPLETE message as part of a MNCC-DATA indication primitive to MM. (Ref. [1] 5.3.4.3.2)

**Preamble:** CC130C



#### Parametrization

Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	B_MODIFY
	ti	TI_MT_1
	bearer_cap	BC_SPEECH_FR
	low_layer_comp	NOT_USED
	high_layer_comp	NOT_USED
	reverse_call	NOT_USED
	}	
	(2) MNCC_MODIFY_IND	ti
serv		SERV_SPEECH
(3) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK

```

pd          B_MODIFY_COMP
ti          TI_MT_1_RESP
bearer_cap  BC_SPEECH_FR_HR_EFR
low_layer_comp  NOT_USED
high_layer_comp  NOT_USED
reverse_call  NOT_USED
}
    
```

History:

25-Apr-97	DL	Initial
04-Aug-97	VK	d1,d2 added
11.10.97	LE	revised
28-Jul-98	LE	adapted to fax & data
16-Mar-00	HM	MODIFY_COMP with full capabilities
09-Jul-01	JHU	Converted to TAP2

### 3.5.28 CC266: In-call modification rejected by MS (Mobile Terminated)

**Description:** CC receives a MODIFY message as part of a MMCC-DATA indication primitive, indicating that the network wishes to start in-call modification. The mobile is unable to accept the modification: CC sends a MODIFY\_COMPLETE message as part of a MNCC-DATA indication primitive to MM. (Ref. [1] 5.3.4.3.4)

**Preamble:** CC130A

```

MMI          CC          MM
|            |            |
(1) |         | MMCC_DATA_IND |
    |         | (MODIFY)      |
    |         | *<===== * |
(2) |         | MMCC_DATA_REQ |
    |         | (MODIFY REJECT)|
    |         | *===== >* |
    |         |            |
    |         |            |
    |         |            |
    |         |            |
    
```

#### Parametrization

Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	B_MODIFY
	ti	TI_MT_1
	bearer_cap	BC_SPEECH_FR
	low_layer_comp	NOT_USED
	high_layer_comp	NOT_USED
	reverse_call	RCS_IE_PRESENT
	}	

(2) MMCC\_DATA\_REQ

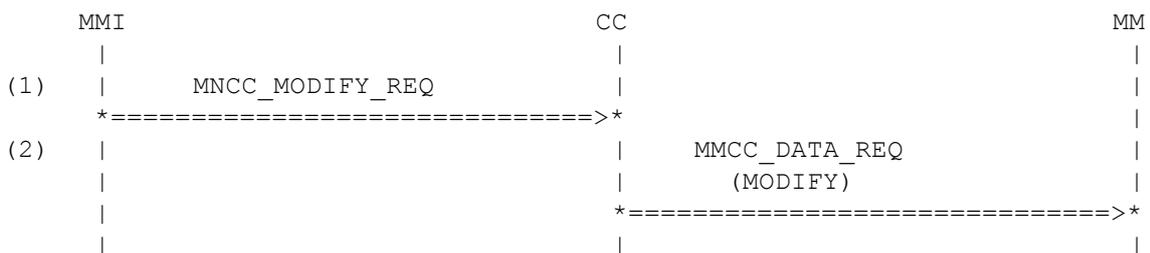
d1	NOT_USED
d2	NOT_USED
sdu	
{	
component	CC
direction	UPLINK
pd	B_MODIFY_REJ
ti	TI_MT_1_RESP
bearer_cap	NOT_USED
cc_cause	CC_CAUSE_BEARER_CAP_AUTH
low_layer_comp	NOT_USED
high_layer_comp	NOT_USED
}	

History:	25-Apr-97	DL	Initial
	31-Jul-97	VK	new : bearer_cap in MODIFY_REJ
	31-Jul-97	VK	preamble is cc130a
	01-Aug-97	VK	CAUSE_BEARER_CAP_AUTHORIZ
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2
	24-Aug-01	SBK	reverse_call: VALID_FALSE renamed

**3.5.29 CC280: In-call modification started by MMI (Mobile Terminated)**

**Description:** MMI initiates in-call modification by issuing a MNCC-g request primitive. CC checks that no hold, retrieve or DTMF procedure is currently active before building a MODIFY message and forwarding this to MM in the form of a MMCC-DATA request primitive. The T323 timer is started and CC enters the state MO MODIFY (U26). (Ref. [1] 5.3.4.3.1)

**Preamble:** CC130D



**Parametrization**

Primitive	Parameter	Value
(1) MNCC_MODIFY_REQ	ti	TI_MT_1_RESP
	serv	SERV_DATA
(2) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED

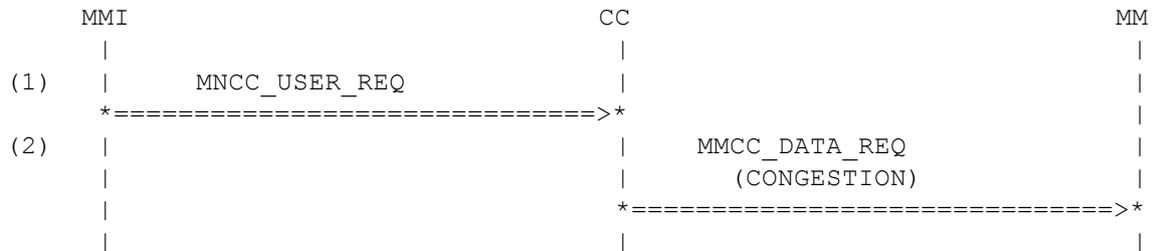




### 3.5.32 CC272: Send user data – CONGESTION message (Mobile Originated)

**Description:** MMI sends user-to-user data to CC in the form of a MNCC-USER request primitive. Congestion level is set to NOT READY, therefore, MM builds a CONGESTION message and forwards this to MM as part of a MMCC-DATA request primitive.

**Preamble:** CC053



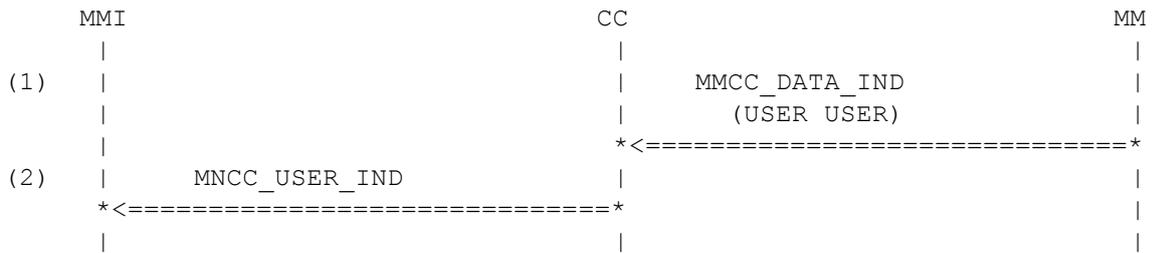
#### Parametrization

Primitive	Parameter	Value
(1) MNCC_USER_REQ	ti	TI_MO_5
	congest_lev	CL_RECEIVER_NOT_READY
	more_data	MD_NO_MORE_DATA
	user	NOT_USED
(2) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	B_CONGEST_CTRL
	ti	TI_MO_5
	congest_lev	CL_RECEIVER_NOT_READY
	cc_cause	NOT_USED
	}	
History:	25-Apr-97	DL Initial
	31-Jul-97	VK use B_CONGEST_CTRL
	31-Jul-97	VK congestion -> congest_lev
	04-Aug-97	VK d1,d2 added
	28-Jul-98	LE adapted to fax & data
	09-Jul-01	JHU Converted to TAP2

### 3.5.33 CC273: Receive user data – USER USER message (Mobile Terminated)

**Description:** CC receives a USER USER message as part of a MMCC-DATA indication primitive. CC forwards the information to MMI as part of a MNCC-USER indication primitive.

**Preamble:** CC130A



**Parametrization**

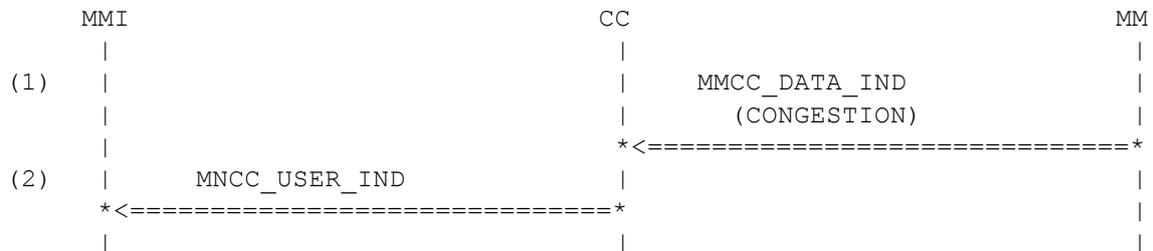
<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	B_USER_INFO
	ti	TI_MT_1
	user_user	USER_A
	more_data	NOT_USED
	}	
(2) MNCC_USER_IND	ti	TI_MT_1_RESP
	congest_lev	NOT_PRESENT_8BIT
	more_data	MD_NO_MORE_DATA
	user	USER_A_USER
History:	25-Apr-97	DL Initial
	31-Jul-97	VK B_USERINFO -> B_USER_INFO
	04-Aug-97	VK d1,d2 added
	28-Jul-98	LE adapted to fax & data
	09-Jul-01	JHU Converted to TAP2

### 3.5.34 CC274: Receive user data - CONGESTION message (Mobile Terminated Call)

**Description:** CC receives a USER USER message as part of a MMCC-DATA indication primitive.  
 CC forwards the information to MMI as part of a MNCC-USER indication primitive.

**Preamble:** CC130A

**Variants:** <A>...<B>



**Parametrization**

Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	B_CONGEST_CTRL
	ti	TI_MT_1
	congest_lev	CL_RECEIVER_NOT_READY
	<A> cc_cause	CC_CAUSE_BEARER_CAP_AUTH
	<B> cc_cause	NOT_USED
	}	
	(2) MNCC_USER_IND	ti
congest_lev		CL_RECEIVER_NOT_READY
more_data		NOT_PRESENT_8BIT
user		NOT_USED

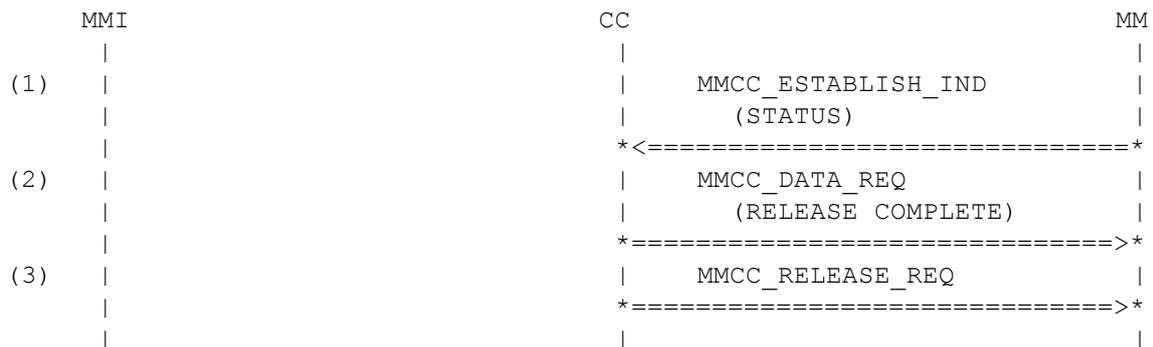
History:	Date	Author	Change
	25-Apr-97	DL	Initial
	31-Jul-97	VK	use B_CONGEST_CTRL
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.6 Call Clearing

#### 3.6.1 CC301: STATUS message with different call state received from network (U0)

**Description:** CC receives a STATUS message from the network in the form of a MMCC-ESTABLISH indication primitive while in the state NULL (U0). The call state in the message received is not identical to the current call state of CC, whereby CC immediately issues a RELEASE COMPLETE message as part of a MMCC-DATA request primitive followed by a MMCC-RELEASE request primitive.

**Preamble:** CC000



#### Parametrization

Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	B_STATUS
	ti	TI_MT_1
	cc_cause	CC_CAUSE_UNSPECIFIED
	call_state	CALL_STATE_CS_9
	aux_states	NOT_USED
	}	
	(2) MMCC_DATA_REQ	d1
d2		NOT_USED
sdu		
{		
component		CC
direction		UPLINK
pd		U_RELEASE_COMP
ti		TI_MT_1_RESP
cc_cause		CC_CAUSE_MSG_B_STATUS_2
facility	NOT_USED	

		user_user	NOT_USED
		ss_version	NOT_USED
		}	
(3)	MMCC_RELEASE_REQ		
		ti	TI_MT_1_RESP
History:	25-Apr-97	DL	Initial
	16-Jul-97	VK	use CC_CAUSE_UNSPECIFIED
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.6.2 CC302: STATUS message with same call state received from network (U0)

**Description:** CC receives a STATUS message from the network in the form of a MMCC-ESTABLISH indication primitive while in the state NULL (U0). The call state in the message received is identical to the current call state of CC, whereby CC issues a MMCC-RELEASE request primitive.

**Preamble:** CC000

MMI	CC	MM
(1)		
	MMCC_ESTABLISH_IND	
	(STATUS)	
	*<=====*	
(2)	MMCC_RELEASE_REQ	
	*=====*>	

#### Parametrization

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	B_STATUS
	ti	TI_MT_1
	cc_cause	CC_CAUSE_UNSPECIFIED
	call_state	CALL_STATE_CS_0
	aux_states	NOT_USED
	}	
(2) MMCC_RELEASE_REQ	ti	TI_MT_1_RESP

History:	25-Apr-97	DL	Initial
	16-Jul-97	VK	use CC_CAUSE_UNSPECIFIED
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.6.3 CC303: STATUS ENQUIRY message received from network (U0)

**Description:** CC receives a STATUS ENQUIRY message from the network in the form of a MMCC-ESTABLISH indication primitive while in the state NULL (U0), whereby CC immediately issues a RELEASE COMPLETE message as part of a MMCC-DATA request primitive followed by a MMCC-RELEASE request primitive.

**Preamble:** CC000

MMI	CC	MM
(1)		
	MMCC_ESTABLISH_IND	
	(STATUS ENQUIRY)	
	*<=====*	
(2)	MMCC_DATA_REQ	
	(RELEASE COMPLETE)	
	*=====>*	
(3)	MMCC_RELEASE_REQ	
	*=====>*	

#### Parametrization

Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	B_STATUS_ENQ
	ti	TI_MT_1
	}	
	(2) MMCC_DATA_REQ	d1
d2		NOT_USED
sdu		
{		
component		CC
direction		UPLINK
pd		U_RELEASE_COMP
ti		TI_MT_1_RESP
cc_cause		CC_CAUSE_INVALID_TI
facility		NOT_USED
user_user		NOT_USED
ss_version		NOT_USED
}		
(3) MMCC_RELEASE_REQ	ti	TI_MT_1_RESP

History:	25-Apr-97	DL	Initial
	16-Jul-97	VK	use CC_CAUSE_INVALID_TI
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.6.4 CC304: RELEASE COMPLETE message received from network (U0)

**Description:** CC receives a RELEASE COMPLETE message from the network in the form of a MMCC-ESTABLISH indication primitive while in the state NULL (U0), whereby CC issues a MMCC-RELEASE request primitive.

**Preamble:** CC000

	MMI		CC		MM
(1)				MMCC_ESTABLISH_IND	
				(RELEASE COMPLETE)	
				*<=====*	
(2)				MMCC_RELEASE_REQ	
				*=====*>	

#### Parametrization

	<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1)	MMCC_ESTABLISH_IND	d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	DOWNLINK
		pd	D_RELEASE_COMP
		ti	TI_MT_1
		cc_cause	CC_CAUSE_CHAN_UNACCEPT
		facility	NOT_USED
		user_user	NOT_USED
		}	
(2)	MMCC_RELEASE_REQ	ti	TI_MT_1_RESP

<b>History:</b>	25-Apr-97	DL	Initial
	16-Jul-97	VK	..._INACCEPT renamed into ..._UNACCEPT
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.6.5 CC305: CALL PROCEEDING message received from network (U0)

**Description:** CC receives a CALL PROCEEDING message from the network in the form of a MMCC-ESTABLISH indication primitive while in the state NULL (U0), whereby CC immediately issues a RELEASE COMPLETE message as part of a MMCC-DATA request primitive followed by a MMCC-RELEASE request primitive.

**Preamble:** CC000

MMI	CC	MM
(1)		
	MMCC_ESTABLISH_IND	
	(CALL PROCEEDING)	
	*<=====*	
(2)	MMCC_DATA_REQ	
	(RELEASE COMPLETE)	
	*=====>*	
(3)	MMCC_RELEASE_REQ	
	*=====>*	

#### Parametrization

Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_CALL_PROCEED
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_BS21_T_300
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	}	
(2) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_RELEASE_COMP
	ti	TI_MT_1_RESP
	cc_cause	CC_CAUSE_INVALID_TI
	facility	NOT_USED
user_user	NOT_USED	

		ss_version	NOT_USED
		}	
(3)	MMCC_RELEASE_REQ		
		ti	TI_MT_1_RESP
History:	25-Apr-97	DL	Initial
	16-Jul-97	VK	repeat NOT_PRESET
	16-Jul-97	VK	use CC_CAUSE_INVALID_TI
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.6.6 CC306: PROGRESS message received (U0)

**Description:** While in the state NULL (U0) CC receives a PROGRESS message in the form of a MNCC-DATA request primitive. CC immediately issues a RELEASE COMPLETE message as part of a MMCC-DATA request primitive followed by a MMCC-RELEASE request primitive.

**Preamble:** CC000

MMI	CC	MM
(1)		
	MMCC_DATA_IND	
	(PROGRESS)	
	*<=====*	
(2)	MMCC_DATA_REQ	
	(RELEASE COMPLETE)	
	*=====>*	
(3)	MMCC_RELEASE_REQ	
	*=====>*	

#### Parametrization

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>	
(1) MMCC_DATA_IND	d1	NOT_USED	
	d2	NOT_USED	
	sdu		
	{		
	component	CC	
	direction	DOWNLINK	
	pd	D_PROGRESS	
	ti	TI_MO_5_RESP	
	progress	NOT_USED	
	user_user	NOT_USED	
	}		
	(2) MMCC_DATA_REQ	d1	NOT_USED
		d2	NOT_USED
sdu			
{			
component		CC	
direction		UPLINK	
pd		U_RELEASE_COMP	
ti		TI_MO_5	
cc_cause		CC_CAUSE_INVALID_TI	
facility		NOT_USED	
user_user		NOT_USED	
ss_version		NOT_USED	
}			

(3) MMCC\_RELEASE\_REQ

ti

TI\_MO\_5

History:	25-Apr-97	DL	Initial
	16-Jul-97	VK	use CC_CAUSE_INVALID_TI
	16-Jul-97	VK	introduce progress
	16-Jul-97	VK	use TI_MO_5
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.6.7 CC307: Facility information element received from network (U0)

**Description:** While in the state NULL (U0) CC receives a FACILITY message in the form of a MNCC-DATA request primitive. CC immediately issues a RELEASE COMPLETE message as part of a MMCC-DATA request primitive followed by a MMCC-RELEASE request primitive.

**Preamble:** CC000

MMI	CC	MM
(1)	MMCC_DATA_IND	
	(PROGRESS)	
	*<=====*	
(2)	MMCC_DATA_REQ	
	(RELEASE COMPLETE)	
	*=====>*	
(3)	MMCC_RELEASE_REQ	
	*=====>*	

#### Parametrization

Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_FACILITY
	ti	TI_MO_5_RESP
	facility	NOT_USED
	}	
(2) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_RELEASE_COMP
	ti	TI_MO_5
	cc_cause	CC_CAUSE_INVALID_TI
	facility	NOT_USED
user_user	NOT_USED	
ss_version	NOT_USED	
}		
(3) MMCC_RELEASE_REQ	ti	TI_MO_5

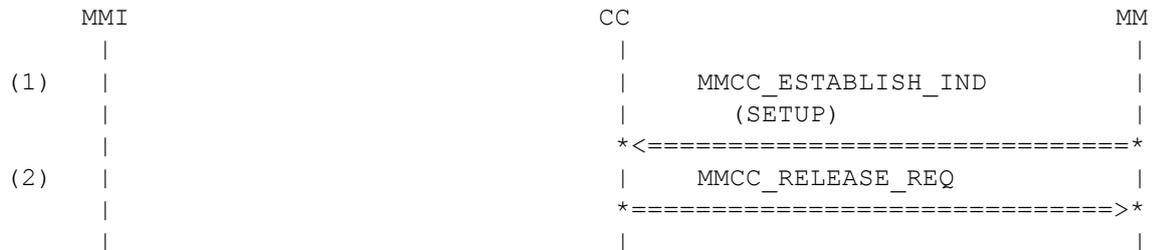
History:	25-Apr-97	DL	Initial
	16-Jul-97	VK	D_FACILITY and facility introduced
	16-Jul-97	VK	use TI_MO_5
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.6.8 CC308: SETUP message received with the TI incorrectly set (U0)

**Description:** CC receives a SETUP message from the network in the form of a MMCC-ESTABLISH indication primitive. The TI flag is set, or the value of TI is a reserved value, whereupon CC issues a MMCC-RELEASE request primitive.

**Preamble:** CC000

**Variants:** <A>....<B>



#### Parametrization

Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	<A> ti	TI_MO_5_RESP
	<B> ti	TI_MO_7_RESP
	repeat	NOT_USED
	bearer_cap	BC_BS21_T_300
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
	repeat_2	NOT_USED
	low_layer_comp	NOT_USED
	low_layer_comp_2	NOT_USED
	repeat_3	NOT_USED
	high_layer_comp	NOT_USED
	high_layer_comp_2	NOT_USED
user_user	NOT_USED	
}		

(2) MMCC\_RELEASE\_REQ

<A>

ti

TI\_MO\_5

<B>

ti

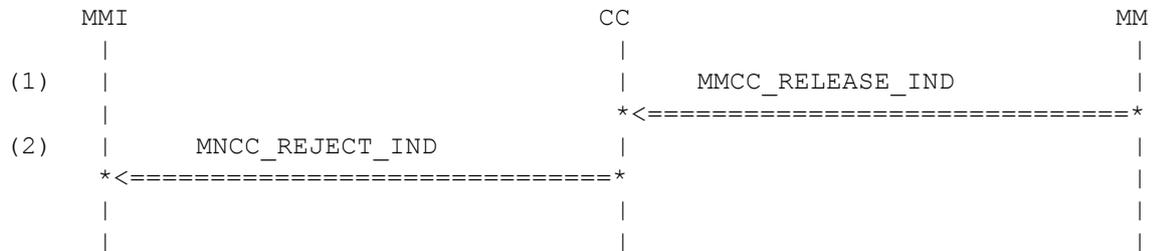
TI\_MO\_7

History:	25-Apr-97	DL	Initial
	11-Jul-97	VK	use CLNG_NUM_654321
	16-Jul-97	VK	repeat NOT_USED
	16-Jul-97	VK	rename TI_MO_5 to TI_MO_5
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.6.9 CC312: MM connection rejected (U0.1)

**Description:** MM signals CC in the form of a MMCC-RELEASE indication primitive that a connection cannot be established. CC stops the T303 timer, issues a MNCC-REJ indication primitive and enters the state NULL (U0).

**Preamble:** CC011



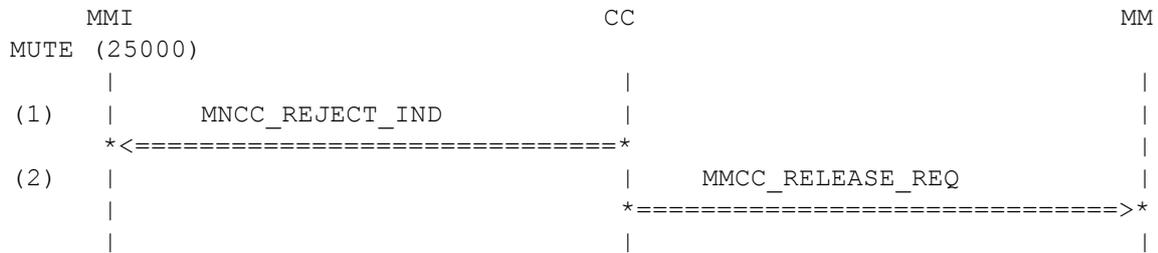
**Parametrization**

Primitive	Parameter	Value	
(1) MMCC_RELEASE_IND	ti	TI_MO_5	
	cause	RRCS_DL_EST_FAIL	
(2) MNCC_REJECT_IND	ti	TI_MO_5	
	cause	RRCS_DL_EST_FAIL	
History:	25-Apr-97	DL	Initial
	16-Jul-97	VK	use ... instead of REJ_NO_TI
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

**3.6.10 CC321: No response from BS – timer expiry (U0.1)**

**Description:** The T303 timer expires before a MM connection can be established. CC issues a MNCC-REJ indication primitive, enters the state NULL (U0) and requests MM to abort the establishment in the form of a MMCC-RELEASE request primitive.

**Preamble:** CC011



**Parametrization**

	<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1)	MNCC_REJECT_IND	ti	TI_MO_5
		cause	MNCC_CAUSE_MS_TIMER
(2)	MMCC_RELEASE_REQ	ti	TI_MO_5

History:	25-Apr-97	DL	Initial
	16-Jul-97	VK	use REJ_T303 instead of REJ_NO_TI
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.6.11 CC322: Mobile originated call release requested (U1)

**Description:** While in the state CAL INIT (U1) CC receives a MNCC-DISCONNECT request primitive. CC builds a DISCONNECT message and sends this as part of a MMCC-DATA request primitive. CC then starts the T305 timer and enters the state DISCONNECT REQUEST (U11). (Ref. [1] 5.4.3.1)

**Preamble:** CC021

MMI	CC	MM
(1)   MNCC_DISCONNECT_REQ		
*=====>*		
(2)	MMCC_DATA_REQ	
	(DISCONNECT)	
	*=====>*	

#### Parametrization

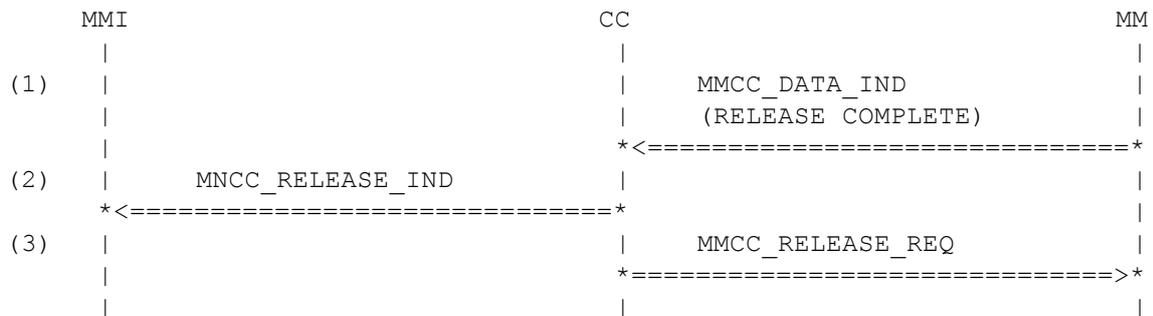
<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) MNCC_DISCONNECT_REQ	ti	TI_MO_5
	cause	ACI_CAUSE_CALL_CLEAR
	fac_inf	FACILITY_NONE
	ss_version	SS_VER_NOT_PRES
(2) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_DISCONNECT
	ti	TI_MO_5
	cc_cause	CC_CAUSE_CALL_CLEAR
	facility	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	}	

History:	25-Apr-97	DL	Initial
	16-Jul-97	VK	remove cs and loc in DISCONNECT
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.6.12 CC323: SETUP rejected: RELEASE COMPLETE message received (U1)

**Description:** While in the state CC receives a RELEASE COMPLETE message as part of a MMCC-DATA indication primitive in response to a SETUP message. CC then stops the T303 timer, enters the state NULL (U0) and issues a MNCC-RELEASE indication primitive to MMI followed by a MMCC-RELEASE request primitive to MM. (Ref. [1] 5.2.1.7)

**Preamble:** CC021



#### Parametrization

	<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1)	MMCC_DATA_IND	d1	NOT_USED
		d2	NOT_USED
		sdu	{
		component	CC
		direction	DOWNLINK
		pd	D_RELEASE_COMP
		ti	TI_MO_5_RESP
		cc_cause	CC_CAUSE_CHAN_UNACCEPT
		facility	NOT_USED
		user_user	NOT_USED
		}	
(2)	MNCC_RELEASE_IND	ti	TI_MO_5
		cause	MNCC_CAUSE_CHAN_UNACCEPT
(3)	MMCC_RELEASE_REQ	ti	TI_MO_5

History:	25-Apr-97	DL	Initial
	16-Jul-97	VK	CAUSE_CHAN_UNACCEPT
	16-Jul-97	VK	RELEASE_IND params revised
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.6.13 CC324: Mobile originated call release requested (U1)

**Description:** While in the state CALL INIT (U1) CC receives a MNCC-DISCONNECT request primitive. CC builds a DISCONNECT message and sends this as part of a MMCC-DATA request primitive. CC then starts the T305 timer and enters the state DISCONNECT REQUEST (U11). (Ref. [1] 5.4.3.1)

**Preamble:** CC021

	MMI		CC		MM
(1)					
		MNCC_DISCONNECT_REQ			
		*=====>*			
(2)				MMCC_DATA_REQ	
				(DISCONNECT)	
				*=====>*	

#### Parametrization

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) MNCC_DISCONNECT_REQ	ti	TI_MO_5
	cause	ACI_CAUSE_CALL_CLEAR
	fac_inf	FACILITY_NONE
	ss_version	SS_VER_NOT_PRES
(2) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_DISCONNECT
	ti	TI_MO_5
	cc_cause	CC_CAUSE_CALL_CLEAR
	facility	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	}	

History:	25-Apr-97	DL	Initial
	16-Jul-97	VK	cs and loc removed
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.6.14 CC325: No response from BS – timer expiry (U1)

**Description:** The T303 timer expires before a response to the SETUP message is received. CC issues a DISCONNECT message as part of a MNCC-DATA request primitive followed by a MNCC-REJECT indication primitive and enters the state DISCONNECT REQUEST (U11).

**Preamble:** CC021

```

MMI                                     CC                                     MM
|                                     |                                     |
MUTE (25000)                           |                                     |
(1) |                                     | MMCC_DATA_REQ |                                     |
    |                                     | (DISCONNECT) |                                     |
    |                                     | *=====>* |                                     |
(2) | MNCC_SETUP_CNF |                                     |                                     |
    | *<=====* |                                     |                                     |
    |                                     |                                     |

```

**Parametrization**

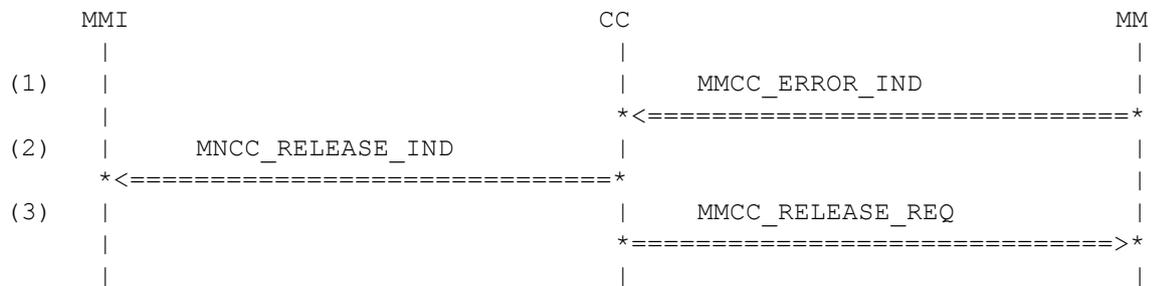
Primitive	Parameter	Value
(1) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_DISCONNECT
	ti	TI_MO_5
	cc_cause	CC_CAUSE_TIMER_303
	facility	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	}	
(2) MNCC_SETUP_CNF	ti	TI_MO_5
	cause	MNCC_CAUSE_MS_TIMER
	progress_desc	NOT_USED
	connected_number	NOT_USED
	connected_number_sub	NOT_USED

History:	Date	Author	Description
	25-Apr-97	DL	Initial
	16-Jul-97	VK	use CC_CAUSE_TIMER_303
	16-Jul-97	VK	SETUP_CNF params revised
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.6.15 CC326: Error from network while awaiting call establishment (U1)

**Description:** While in the state CALL INIT (U1) CC receives a MMCC-ERROR indication primitive from MM. CC issues a MNCC-REJ indication primitive to MMI followed by a MMCC-RELEASE request primitive to MM and enters the state NULL (U0).

**Preamble:** CC021



**Parametrization**

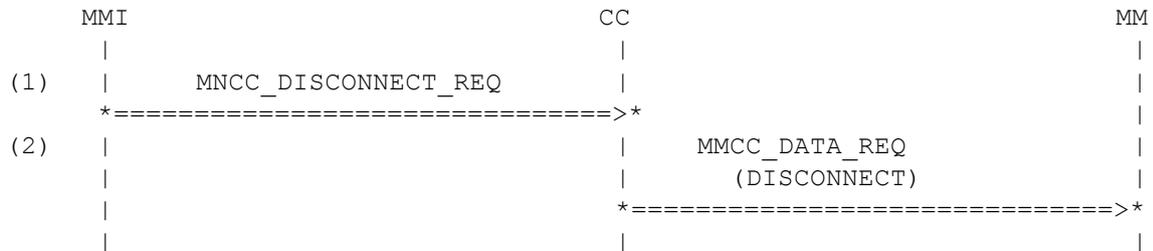
Primitive	Parameter	Value
(1) MMCC_ERROR_IND	ti	TI_MO_5
	cause	RRCS_ABORT_CEL_SEL_FAIL
(2) MNCC_RELEASE_IND	ti	TI_MO_5
	cause	RRCS_ABORT_CEL_SEL_FAIL
(3) MMCC_RELEASE_REQ	ti	TI_MO_5

History:	25-Apr-97	DL	Initial
	16-Jul-97	VK	introduce ERRCS_CELL_SELECT_FAIL
	16-Jul-97	VK	remove MNCC_REJECT_IND
	16-Jul-97	VK	introduce MNCC_RELEASE_IND
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.6.16 CC331: Mobile originated call release requested (U3)

**Description:** While in the state MO CALL PROCEEDING (U3) CC receives a MNCC-DISCONNECT request primitive. CC builds a DISCONNECT message and sends this as part of a MMCC-DATA request primitive. CC then starts the T305 timer and enters the state DISCONNECT REQUEST (U11). (Ref. [1] 5.4.3.1)

**Preamble:** CC026A



#### Parametrization

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) MNCC_DISCONNECT_REQ	ti	TI_MO_5
	cause	ACI_CAUSE_CALL_CLEAR
	fac_inf	FACILITY_NONE
	ss_version	SS_VER_NOT_PRES
(2) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_DISCONNECT
	ti	TI_MO_5
	cc_cause	CC_CAUSE_CALL_CLEAR
	facility	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	}	

History:	25-Apr-97	DL	Initial
	17-Jul-97	VK	remove cs and loc in DISCONNECT
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2
	26-Nov-01	OT	Variant CC026A instead of CC026

### 3.6.17 CC332: No response from BS – timer expiry (U3)

**Description:** The T310 timer expires before an ALERTING or CONNECT message is received. CC issues a DISCONNECT message as part of a MNCC-DATA request primitive followed by a MNCC-SETUP confirmation primitive indicating the timeout and enters the state DISCONNECT REQUEST (U11).

**Preamble:** CC026A

```

MMI                                     CC                                     MM
|                                       |                                       |
MUTE (25000)                            |                                       |
(1) |                                     |   MMCC_DATA_REQ   |
    |                                     |   (DISCONNECT)  |
    |                                     |   *=====> *   |
(2) |   MNCC_SETUP_CNF   |                                     |
    | *<===== *   |                                     |
    |               |                                     |

```

#### Parametrization

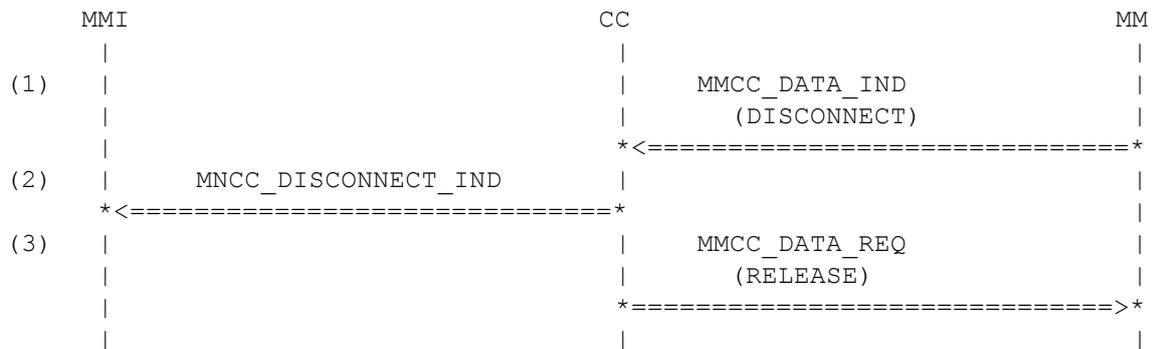
Primitive	Parameter	Value
(1) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_DISCONNECT
	ti	TI_MO_5
	cc_cause	CC_CAUSE_TIMER_310
	facility	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	}	
(2) MNCC_SETUP_CNF	ti	TI_MO_5
	cause	MNCC_CAUSE_MS_TIMER
	progress_desc	NOT_USED
	connected_number	NOT_USED
	connected_number_sub	NOT_USED

History:	25-Apr-97	DL	Initial
	17-Jul-97	VK	params revised
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2
	26-Nov-01	OT	Variant CC026A instead of CC026

### 3.6.18 CC333: DISCONNECT message received from network (U3)

**Description:** While in the state MO CALL PROCEEDING (U3) CC receives a DISCONNECT message as part of a MNCC-DATA request primitive. CC sends a MNCC-DISCONNECT indication primitive to MMI; followed by RELEASE COMPLETE message as part of a MMCC-DATA request primitive. CC then enters the state RELEASE REQUEST (U19).

**Preamble:** CC026A



#### Parametrization

Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_DISCONNECT
	ti	TI_MO_5_RESP
	cc_cause	CC_CAUSE_UNSPECIFIED
	facility	NOT_USED
	progress	NOT_USED
	user_user	NOT_USED
	}	
(2) MNCC_DISCONNECT_IND	ti	TI_MO_5
	cause	MNCC_CAUSE_UNSPECIFIED
	diagnostic	NOT_USED
	progress_desc	NOT_USED
(3) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK

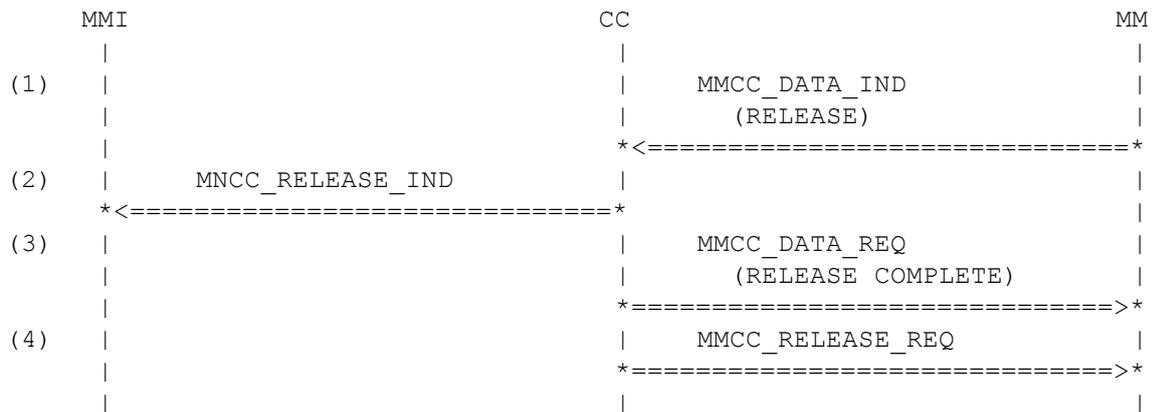
pd	U_RELEASE
ti	TI_MO_5
cc_cause	NOT_USED
cc_cause_2	NOT_USED
facility	NOT_USED
user_user	NOT_USED
ss_version	NOT_USED
}	

History:	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2
	26-Nov-01	OT	Variant CC026A instead of CC026

### 3.6.19 CC334: RELEASE message received (U3)

**Description:** While in the state MO CALL PROCEEDING (U3) CC receives a DISCONNECT message as part of a MNCC-DATA request primitive. CC sends a MNCC-RELEASE indication primitive to MMI; followed by RELEASE COMPLETE message as part of a MMCC-DATA request primitive and a MMCC-RELEASE request primitive to MM. CC then enters the state NULL (U0).

**Preamble:** CC026A



#### Parametrization

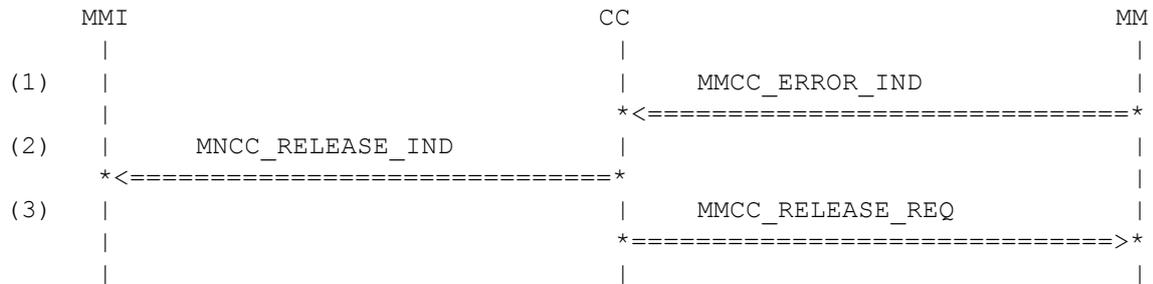
Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_RELEASE
	ti	TI_MO_5_RESP
	cc_cause	CC_CAUSE_CALL_CLEAR
	cc_cause_2	NOT_USED
	facility	NOT_USED
	user_user	NOT_USED
	}	
	(2) MNCC_RELEASE_IND	ti
cause		MNCC_CAUSE_CALL_CLEAR
(3) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
direction	UPLINK	

		pd	U_RELEASE_COMP
		ti	TI_MO_5
		cc_cause	NOT_USED
		facility	NOT_USED
		user_user	NOT_USED
		}	
( 4 )	MMCC_RELEASE_REQ		
		ti	TI_MO_5
History:	25-Apr-97	DL	Initial
	17-Jul-97	VK	params revised
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2
	26-Nov-01	OT	Variant CC026A instead of CC026

### 3.6.20 CC335: Error from network during call establishment (U3)

**Description:** While in the state MO CALL PROCEEDING (U3) CC receives a MMCC-ERROR indication primitive from MM. CC issues a MNCC-REJ indication primitive to MMI followed by a MMCC-RELEASE request primitive to MM and enters the state NULL (U0).

**Preamble:** CC026A



**Parametrization**

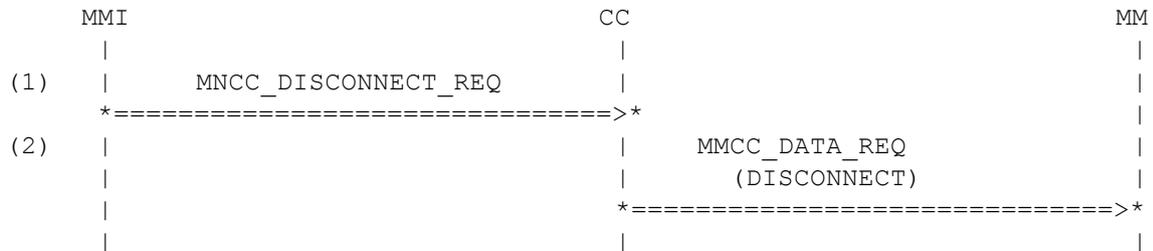
<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) MMCC_ERROR_IND	ti	TI_MO_5
	cause	RRCS_ABORT_CEL_SEL_FAIL
(2) MNCC_RELEASE_IND	ti	TI_MO_5
	cause	RRCS_ABORT_CEL_SEL_FAIL
(3) MMCC_RELEASE_REQ	ti	TI_MO_5

History:	25-Apr-97	DL	Initial
	17-Jul-97	VK	REJECT_IND params revised
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2
	26-Nov-01	OT	Variant CC026A instead of CC026

### 3.6.21 CC341: Mobile originated call release requested (U4)

**Description:** While in the state CALL DELIVERED (U4) CC receives a MNCC-DISCONNECT request primitive. CC builds a DISCONNECT message and sends this as part of a MMCC-DATA request primitive. CC then starts the T305 timer and enters the state DISCONNECT REQUEST (U11). (Ref. [1] 5.4.3.1)

**Preamble:** CC027



**Parametrization**

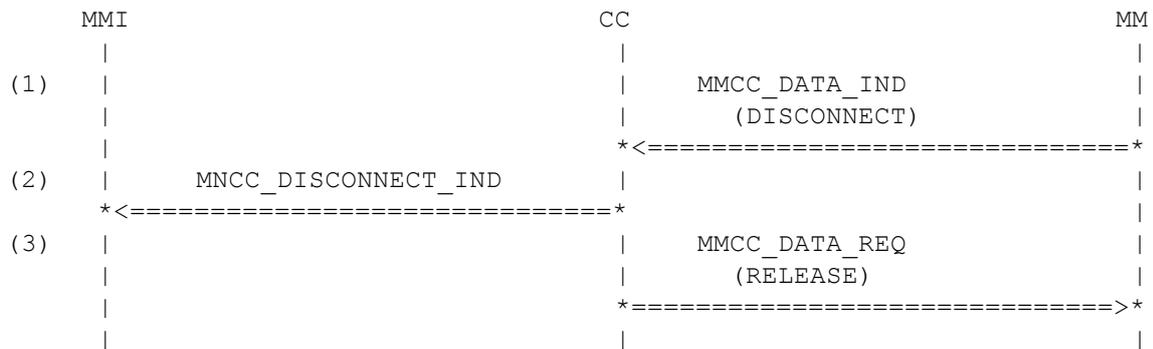
Primitive	Parameter	Value
(1) MNCC_DISCONNECT_REQ	ti	TI_MO_5
	cause	ACI_CAUSE_CALL_CLEAR
	fac_inf	FACILITY_NONE
	ss_version	SS_VER_NOT_PRES
(2) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_DISCONNECT
	ti	TI_MO_5
	cc_cause	CC_CAUSE_CALL_CLEAR
	facility	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	}	

History:	Date	Author	Change
	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.6.22 CC342: DISCONNECT message received from network (U4)

**Description:** While in the state CALL DELIVERED (U4) CC receives a DISCONNECT message as part of a MNCC-DATA request primitive. CC sends a MNCC-DISCONNECT indication primitive to MMI; followed by RELEASE COMPLETE message as part of a MMCC-DATA request primitive. CC then enters the state RELEASE REQUEST (U19).

**Preamble:** CC027



#### Parametrization

Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_DISCONNECT
	ti	TI_MO_5_RESP
	cc_cause	CC_CAUSE_UNSPECIFIED
	facility	NOT_USED
	progress	NOT_USED
	user_user	NOT_USED
	}	
	(2) MNCC_DISCONNECT_IND	ti
cause		MNCC_CAUSE_UNSPECIFIED
diagnostic		NOT_USED
progress_desc		NOT_USED
(3) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK

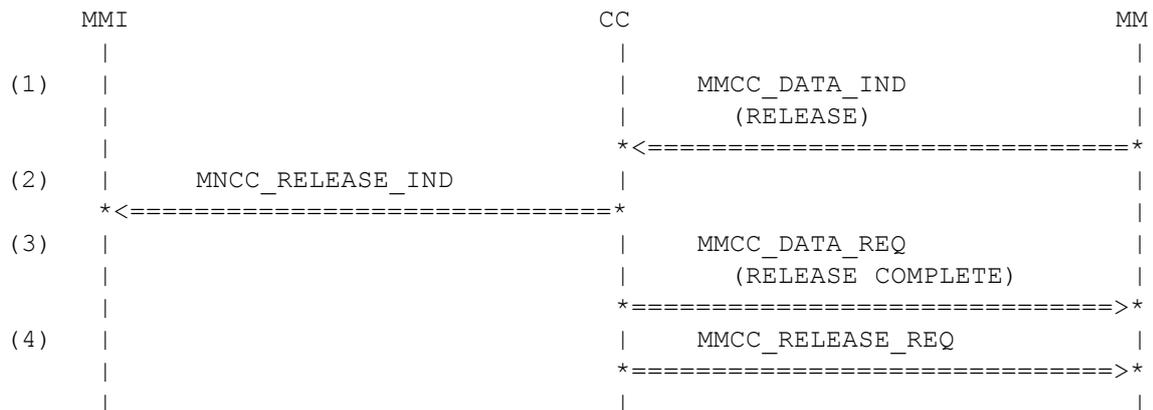
pd	U_RELEASE
ti	TI_MO_5
cc_cause	NOT_USED
cc_cause_2	NOT_USED
facility	NOT_USED
user_user	NOT_USED
ss_version	NOT_USED
}	

History:	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.6.23 CC343: RELEASE message received (U4)

**Description:** While in the state CALL DELIVERED (U4) CC receives a DISCONNECT message as part of a MNCC-DATA request primitive. CC sends a MNCC-RELEASE indication primitive to MMI; followed by RELEASE COMPLETE message as part of a MMCC-DATA request primitive and a MMCC-RELEASE request primitive to MM. CC then enters the state NULL (U0).

**Preamble:** CC027



#### Parametrization

Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_RELEASE
	ti	TI_MO_5_RESP
	cc_cause	CC_CAUSE_CALL_CLEAR
	cc_cause_2	NOT_USED
	facility	NOT_USED
	user_user	NOT_USED
	}	
	(2) MNCC_RELEASE_IND	ti
cause		MNCC_CAUSE_CALL_CLEAR
(3) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
direction	UPLINK	

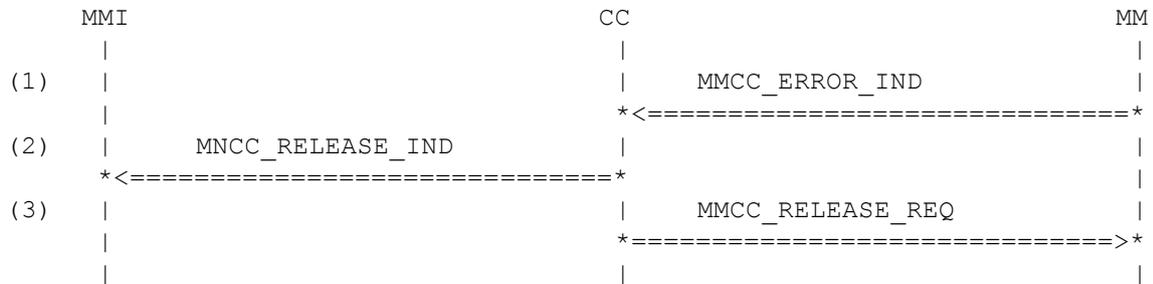
	pd	U_RELEASE_COMP
	ti	TI_MO_5
	cc_cause	NOT_USED
	facility	NOT_USED
	user_user	NOT_USED
	}	
( 4 )	MMCC_RELEASE_REQ	
	ti	TI_MO_5

History:	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.6.24 CC344: Error from network during call establishment (U4)

**Description:** While in the state CALL DELIVERED (U4) CC receives a MMCC-ERROR indication primitive from MM. CC issues a MNCC-REJ indication primitive to MMI followed by a MMCC-RELEASE request primitive to MM and enters the state NULL (U0).

**Preamble:** CC027



**Parametrization**

Primitive	Parameter	Value
(1) MMCC_ERROR_IND	ti	TI_MO_5
	cause	RRCS_ABORT_CEL_SEL_FAIL
(2) MNCC_RELEASE_IND	ti	TI_MO_5
	cause	RRCS_ABORT_CEL_SEL_FAIL
(3) MMCC_RELEASE_REQ	ti	TI_MO_5

History:	25-Apr-97	DL	Initial
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.6.25 CC361: Mobile originated call release requested (U9)

**Description:** While in the state MT CALL CONFIRMED (U9) CC receives a MNCC-DISCONNECT request primitive. CC builds a DISCONNECT message and sends this as part of a MMCC-DATA request primitive. CC then starts the T305 timer and enters the state DISCONNECT REQUEST (U11). (Ref. [1] 5.4.3.1)

**Preamble:** CC092A

	MMI		CC		MM
(1)					
		MNCC_DISCONNECT_REQ			
		*=====>*			
(2)				MMCC_DATA_REQ	
				(DISCONNECT)	
				*=====>*	

#### Parametrization

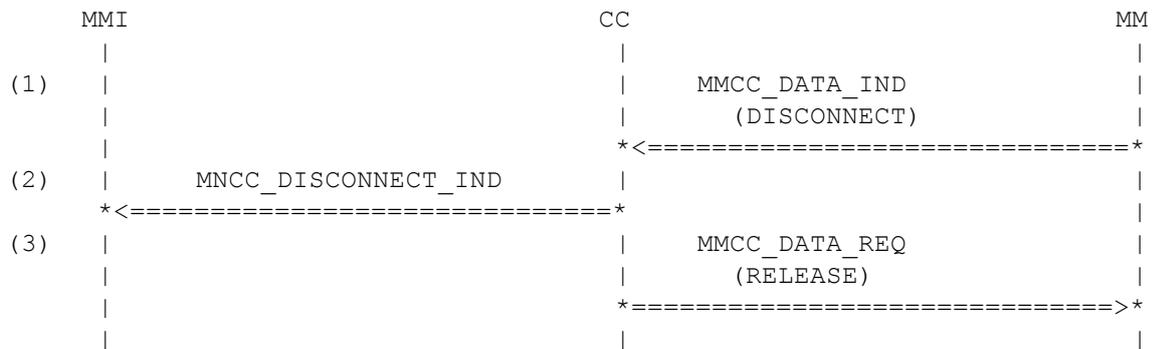
<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) MNCC_DISCONNECT_REQ	ti	TI_MT_1_RESP
	cause	ACI_CAUSE_CALL_CLEAR
	fac_inf	FACILITY_NONE
	ss_version	SS_VER_NOT_PRES
(2) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_DISCONNECT
	ti	TI_MT_1_RESP
	cc_cause	CC_CAUSE_CALL_CLEAR
	facility	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	}	

History:	25-Apr-97	DL	Initial
	31-Jul-97	VK	preamble is cc092a
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.6.26 CC362: DISCONNECT message received from network (U9)

**Description:** While in the state MT CALL CONFIRMED (U9) CC receives a DISCONNECT message as part of a MNCC-DATA request primitive. CC sends a MNCC-DISCONNECT indication primitive to MMI; followed by RELEASE COMPLETE message as part of a MMCC-DATA request primitive. CC then enters the state RELEASE REQUEST (U19).

**Preamble:** CC092A



#### Parametrization

Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_DISCONNECT
	ti	TI_MT_1
	cc_cause	CC_CAUSE_UNSPECIFIED
	facility	NOT_USED
	progress	NOT_USED
	user_user	NOT_USED
	}	
	(2) MNCC_DISCONNECT_IND	ti
cause		MNCC_CAUSE_UNSPECIFIED
diagnostic		NOT_USED
progress_desc		NOT_USED
(3) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK

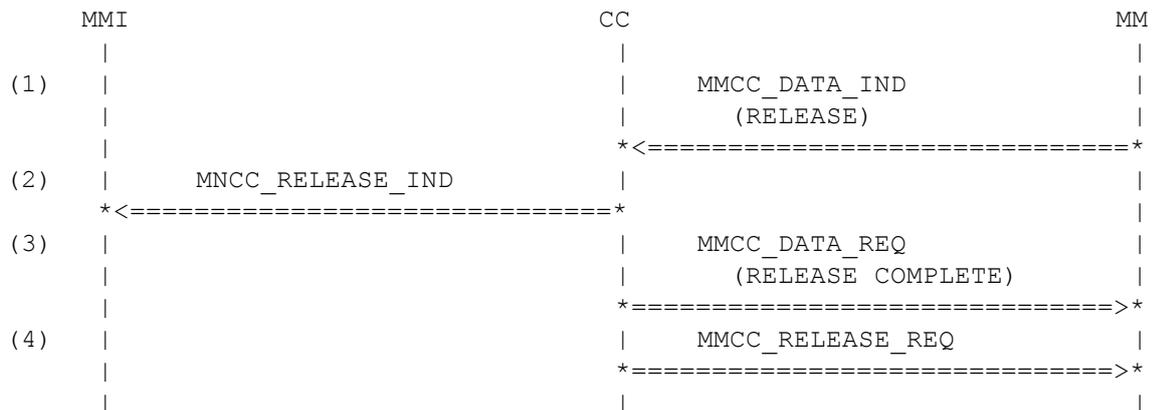
pd	U_RELEASE
ti	TI_MT_1_RESP
cc_cause	NOT_USED
cc_cause_2	NOT_USED
facility	NOT_USED
user_user	NOT_USED
ss_version	NOT_USED
}	

History:	25-Apr-97	DL	Initial
	31-Jul-97	VK	preamble is cc092a
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.6.27 CC363: RELEASE message received (U9)

**Description:** While in the state MT CALL CONFIRMED (U9) CC receives a DISCONNECT message as part of a MNCC-DATA request primitive. CC sends a MNCC-RELEASE indication primitive to MMI; followed by RELEASE COMPLETE message as part of a MMCC-DATA request primitive and a MMCC-RELEASE request primitive to MM. CC then enters the state NULL (U0).

**Preamble:** CC092A



#### Parametrization

	<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1)	MMCC_DATA_IND	d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	DOWNLINK
		pd	D_RELEASE
		ti	TI_MT_1
		cc_cause	CC_CAUSE_CALL_CLEAR
		cc_cause_2	NOT_USED
		facility	NOT_USED
		user_user	NOT_USED
		}	
(2)	MNCC_RELEASE_IND	ti	TI_MT_1_RESP
		cause	MNCC_CAUSE_CALL_CLEAR
(3)	MMCC_DATA_REQ	d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK

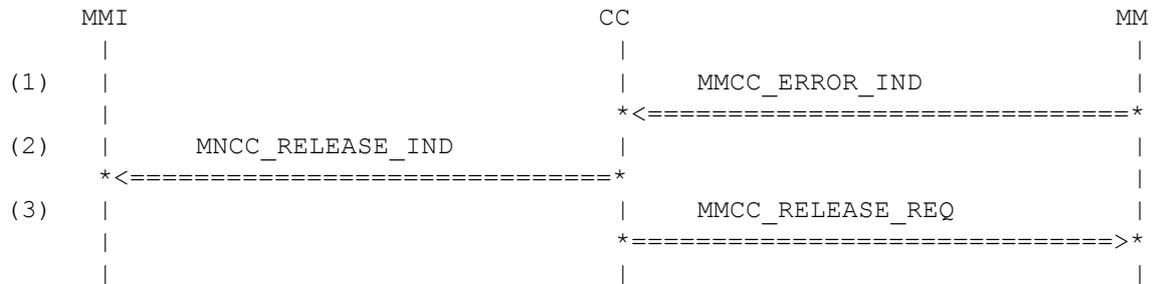
	pd	U_RELEASE_COMP
	ti	TI_MT_1_RESP
	cc_cause	NOT_USED
	facility	NOT_USED
	user_user	NOT_USED
	}	
( 4 )	MMCC_RELEASE_REQ	
	ti	TI_MT_1_RESP

History:	25-Apr-97	DL	Initial
	31-Jul-97	VK	preamble is cc092a
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.6.28 CC364: Error from network during call establishment (U9)

**Description:** While in the state MT CALL CONFIRMED (U9) CC receives a MMCC-ERROR indication primitive from MM. CC issues a MNCC-REJ indication primitive to MMI followed by a MMCC-RELEASE request primitive to MM and enters the state NULL (U0).

**Preamble:** CC092A



**Parametrization**

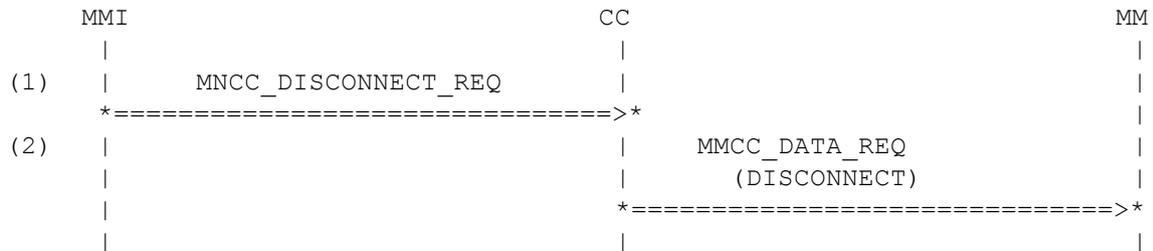
	<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1)	MMCC_ERROR_IND	ti	TI_MT_1_RESP
		cause	RRCS_ABORT_CEL_SEL_FAIL
(2)	MNCC_RELEASE_IND	ti	TI_MT_1_RESP
		cause	RRCS_ABORT_CEL_SEL_FAIL
(3)	MMCC_RELEASE_REQ	ti	TI_MT_1_RESP

History:	25-Apr-97	DL	Initial
	31-Jul-97	VK	preamble is cc092a
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.6.29 CC371: Mobile originated call release requested (U7)

**Description:** While in the state CALL RECEIVED (U7) CC receives a MNCC-DISCONNECT request primitive. CC builds a DISCONNECT message and sends this as part of a MMCC-DATA request primitive. CC then starts the T305 timer and enters the state DISCONNECT REQUEST (U11). (Ref. [1] 5.4.3.1)

**Preamble:** CC112



**Parametrization**

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) MNCC_DISCONNECT_REQ	ti	TI_MT_1_RESP
	cause	ACI_CAUSE_CALL_CLEAR
	fac_inf	FACILITY_NONE
	ss_version	SS_VER_NOT_PRES
(2) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_DISCONNECT
	ti	TI_MT_1_RESP
	cc_cause	CC_CAUSE_CALL_CLEAR
	facility	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	}	

History:	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.6.30 CC372: DISCONNECT message received from network (U7)

**Description:** While in the state CALL RECEIVED (U7) CC receives a DISCONNECT message as part of a MNCC-DATA request primitive. CC sends a MMCC-DISCONNECT indication primitive to MMI; followed by RELEASE COMPLETE message as part of a MMCC-DATA request primitive. CC then enters the state RELEASE REQUEST (U19).

**Preamble:** CC112

MMI	CC	MM
(1)		
	MMCC_DATA_IND	
	(DISCONNECT)	
	*<=====*	
(2)   MNCC_DISCONNECT_IND		
*<=====*		
(3)	MMCC_DATA_REQ	
	(RELEASE)	
	*=====*>	

#### Parametrization

Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_DISCONNECT
	ti	TI_MT_1
	cc_cause	CC_CAUSE_UNSPECIFIED
	facility	NOT_USED
	progress	NOT_USED
	user_user	NOT_USED
	}	
(2) MNCC_DISCONNECT_IND	ti	TI_MT_1_RESP
	cause	MNCC_CAUSE_UNSPECIFIED
	diagnostic	NOT_USED
	progress_desc	NOT_USED
(3) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_RELEASE

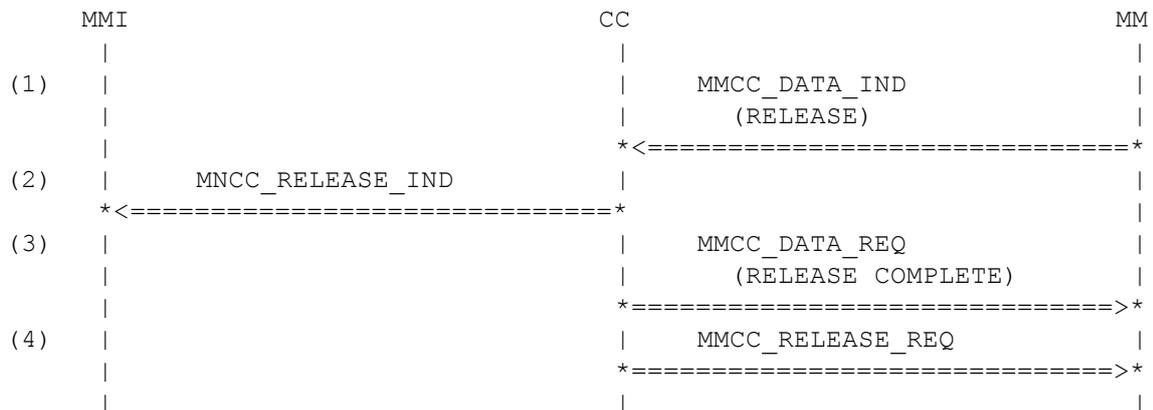
ti	TI_MT_1_RESP
cc_cause	NOT_USED
cc_cause_2	NOT_USED
facility	NOT_USED
user_user	NOT_USED
ss_version	NOT_USED
}	

History:	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.6.31 CC373: RELEASE message received (U7)

**Description:** While in the state CALL RECEIVED (U7) CC receives a DISCONNECT message as part of a MNCC-DATA request primitive. CC sends a MNCC-RELEASE indication primitive to MMI; followed by RELEASE COMPLETE message as part of a MMCC-DATA request primitive and a MMCC-RELEASE request primitive to MM. CC then enters the state NULL (U0).

**Preamble:** CC112



#### Parametrization

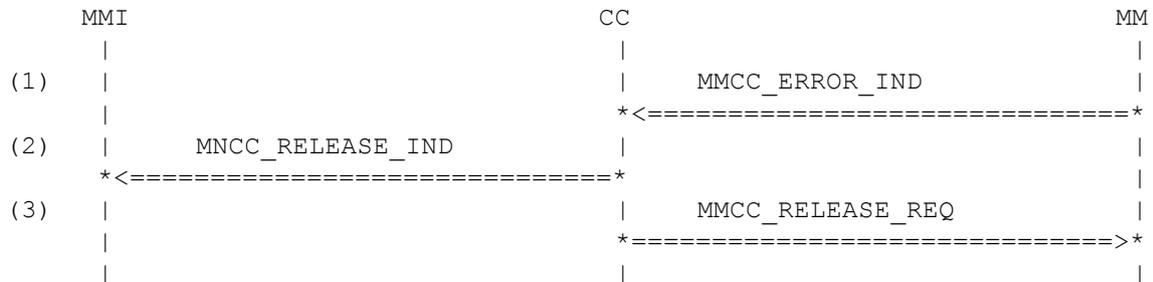
Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_RELEASE
	ti	TI_MT_1
	cc_cause	CC_CAUSE_CALL_CLEAR
	cc_cause_2	NOT_USED
	facility	NOT_USED
	user_user	NOT_USED
	}	
	(2) MNCC_RELEASE_IND	ti
cause		MNCC_CAUSE_CALL_CLEAR
(3) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
direction	UPLINK	

		pd	U_RELEASE_COMP
		ti	TI_MT_1_RESP
		cc_cause	NOT_USED
		facility	NOT_USED
		user_user	NOT_USED
		}	
( 4 )	MMCC_RELEASE_REQ		
		ti	TI_MT_1_RESP
History:	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.6.32 CC374: Error from network during call establishment (U7)

**Description:** While in the state CALL RECEIVED (U7) CC receives a MMCC-ERROR indication primitive from MM. CC issues a MNCC-REJ indication primitive to MMI followed by a MMCC-RELEASE request primitive to MM and enters the state NULL (U0).

**Preamble:** CC112



#### Parametrization

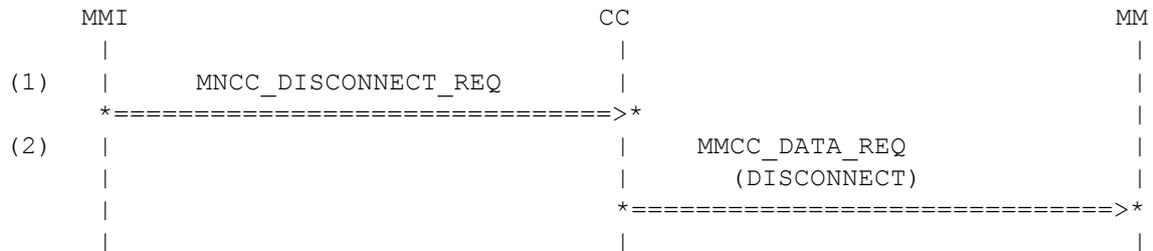
Primitive	Parameter	Value
(1) MMCC_ERROR_IND	ti	TI_MT_1_RESP
	cause	RRCS_ABORT_CEL_SEL_FAIL
(2) MNCC_RELEASE_IND	ti	TI_MT_1_RESP
	cause	RRCS_ABORT_CEL_SEL_FAIL
(3) MMCC_RELEASE_REQ	ti	TI_MT_1_RESP

History:	25-Apr-97	DL	Initial
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.6.33 CC381: Mobile originated call release requested (U8)

**Description:** While in the state CALL CONNECT (U8) CC receives a MNCC-DISCONNECT request primitive. CC builds a DISCONNECT message and sends this as part of a MMCC-DATA request primitive. CC then starts the T305 timer and enters the state DISCONNECT REQUEST (U11). (Ref. [1] 5.4.3.1)

**Preamble:** CC113A



#### Parametrization

Primitive	Parameter	Value
(1) MNCC_DISCONNECT_REQ	ti	TI_MT_1_RESP
	cause	ACI_CAUSE_CALL_CLEAR
	fac_inf	FACILITY_NONE
	ss_version	SS_VER_NOT_PRES
(2) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_DISCONNECT
	ti	TI_MT_1_RESP
	cc_cause	CC_CAUSE_CALL_CLEAR
	facility	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	}	

History:	25-Apr-97	DL	Initial
	31-Jul-97	VK	preamble is cc113a
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.6.34 CC382: No response from BS – timer expiry (U8)

**Description:** The T313 timer expires before a CONNECT ACKNOWLEDGE message is received. CC issues a DISCONNECT message as part of a MNCC-DATA request primitive followed by a MNCC-SETUP-COMPL indication primitive and enters the state DISCONNECT REQUEST (U11).

**Preamble:** CC113A

```

      MMI                      CC                      MM
      |                        |                      |
MUTE (25000)
(1)  |                        |      MMCC_DATA_REQ  |
      |                        |      (DISCONNECT)  |
      |                        |*=====>*
(2)  |      MNCC_SETUP_COMPL_IND |                      |
      |*<=====*                      |
      |                        |                      |

```

#### Parametrization

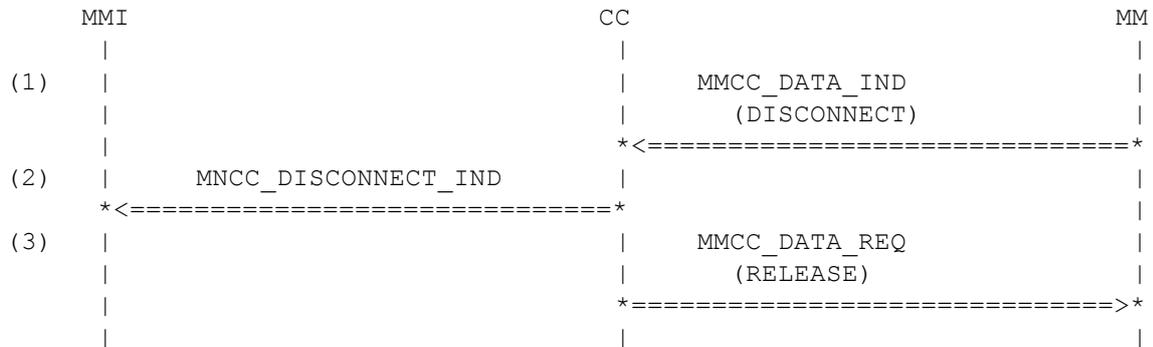
Primitive	Parameter	Value
(1) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_DISCONNECT
	ti	TI_MT_1_RESP
	cc_cause	CC_CAUSE_TIMER_313
	facility	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	}	
(2) MNCC_SETUP_COMPL_IND	ti	TI_MT_1_RESP
	cause	MNCC_CAUSE_MS_TIMER

History:	25-Apr-97	DL	Initial
	31-Jul-97	VK	preamble is cc113a
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.6.35 CC383: DISCONNECT message received from network (U8)

**Description:** While in the state CALL CONNECT (U8) CC receives a DISCONNECT message as part of a MNCC-DATA request primitive. CC sends a MMCC-DISCONNECT indication primitive to MMI; followed by RELEASE COMPLETE message as part of a MMCC-DATA request primitive. CC then enters the state RELEASE REQUEST (U19).

**Preamble:** CC113A



#### Parametrization

Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	{
	component	CC
	direction	DOWNLINK
	pd	D_DISCONNECT
	ti	TI_MT_1
	cc_cause	CC_CAUSE_UNSPECIFIED
	facility	NOT_USED
	progress	NOT_USED
	user_user	NOT_USED
	}	
	(2) MNCC_DISCONNECT_IND	ti
cause		MNCC_CAUSE_UNSPECIFIED
diagnostic		NOT_USED
progress_desc		NOT_USED
(3) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	{
	component	CC
	direction	UPLINK
	pd	U_RELEASE
	}	

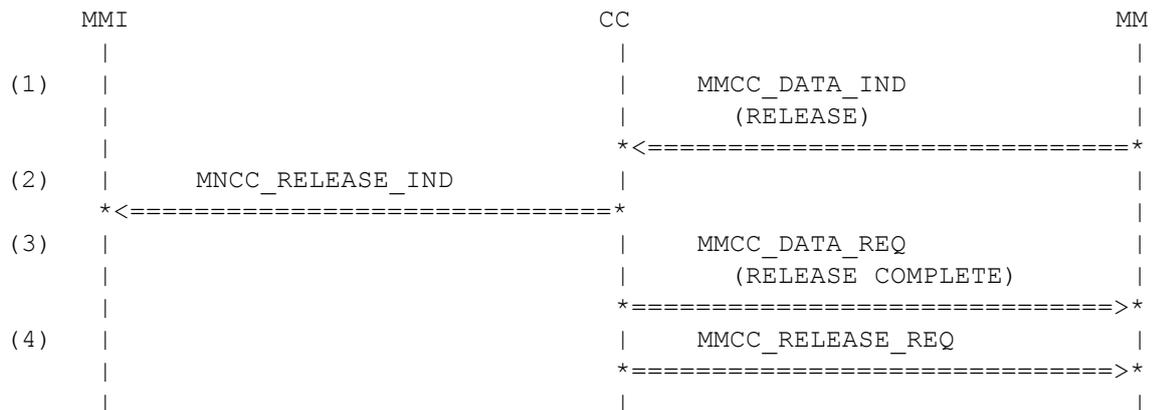
ti	TI_MT_1_RESP
cc_cause	NOT_USED
cc_cause_2	NOT_USED
facility	NOT_USED
user_user	NOT_USED
ss_version	NOT_USED
}	

History:	25-Apr-97	DL	Initial
	31-Jul-97	VK	preamble is cc113a
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.6.36 CC384: RELEASE message received (U8)

**Description:** While in the state CALL CONNECT (U8) CC receives a DISCONNECT message as part of a MNCC-DATA request primitive. CC sends a MNCC-RELEASE indication primitive to MMI; followed by RELEASE COMPLETE message as part of a MMCC-DATA request primitive and a MMCC-RELEASE request primitive to MM. CC then enters the state NULL (U0).

**Preamble:** CC113A



#### Parametrization

Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_RELEASE
	ti	TI_MT_1
	cc_cause	CC_CAUSE_CALL_CLEAR
	cc_cause_2	NOT_USED
	facility	NOT_USED
	user_user	NOT_USED
	}	
(2) MNCC_RELEASE_IND	ti	TI_MT_1_RESP
	cause	MNCC_CAUSE_CALL_CLEAR
(3) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
direction	UPLINK	

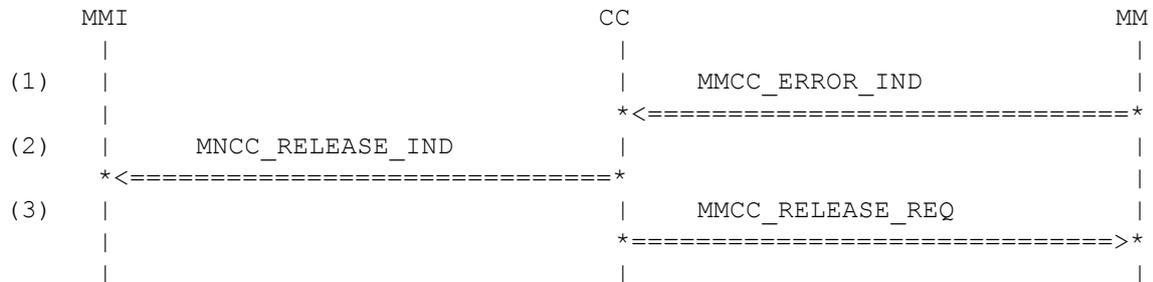
	pd	U_RELEASE_COMP
	ti	TI_MT_1_RESP
	cc_cause	NOT_USED
	facility	NOT_USED
	user_user	NOT_USED
	}	
( 4 )	MMCC_RELEASE_REQ	
	ti	TI_MT_1_RESP

History:	25-Apr-97	DL	Initial
	31-Jul-97	VK	preamble is cc113a
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.6.37 CC385: Error from network during call establishment (U8)

**Description:** While in the state CALL CONNECT (U8) CC receives a MMCC-ERROR indication primitive from MM. CC issues a MNCC-REJ indication primitive to MMI followed by a MMCC-RELEASE request primitive to MM and enters the state NULL (U0).

**Preamble:** CC113A



#### Parametrization

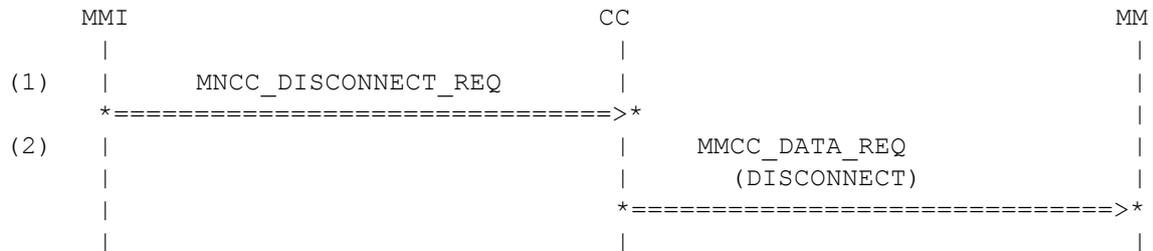
Primitive	Parameter	Value
(1) MMCC_ERROR_IND	ti	TI_MT_1_RESP
	cause	RRCS_ABORT_CEL_SEL_FAIL
(2) MNCC_RELEASE_IND	ti	TI_MT_1_RESP
	cause	RRCS_ABORT_CEL_SEL_FAIL
(3) MMCC_RELEASE_REQ	ti	TI_MT_1_RESP

History:	25-Apr-97	DL	Initial
	31-Jul-97	VK	preamble is cc113a
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.6.38 CC402: Mobile originated call release requested (U10)

**Description:** While in the state ACTIVE (U10) CC receives a MNCC-DISCONNECT request primitive. CC builds a DISCONNECT message and sends this as part of a MMCC-DATA request primitive. CC then starts the T305 timer and enters the state DISCONNECT REQUEST (U11). (Ref. [1] 5.4.3.1)

**Preamble:** CC032



**Parametrization**

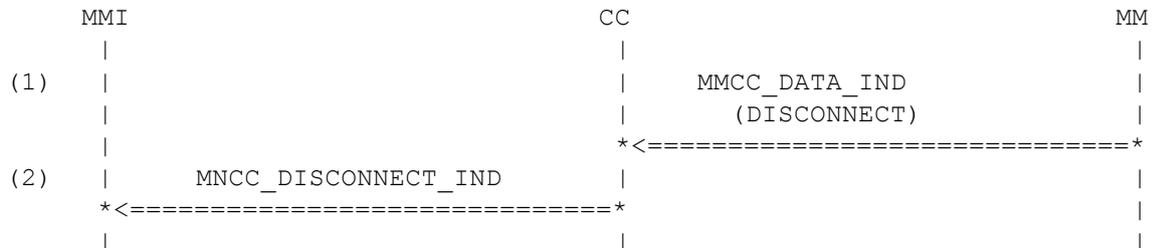
<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) MNCC_DISCONNECT_REQ	ti	TI_MO_5
	cause	ACI_CAUSE_CALL_CLEAR
	fac_inf	FACILITY_NONE
	ss_version	SS_VER_NOT_PRES
(2) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_DISCONNECT
	ti	TI_MO_5
	cc_cause	CC_CAUSE_CALL_CLEAR
	facility	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	}	

History:	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.6.39 CC407: DISCONNECT message received from network (U10)

**Description:** While in the state ACTIVE (U10) CC receives a DISCONNECT message as part of a MMCC-DATA indication primitive. CC issues a MNCC-DISCONNECT indication primitive to MMI and enters the state DISCONNECT INDICATION (U12). (Ref. [1] 5.4.4.1)

**Preamble:** CC032



#### Parametrization

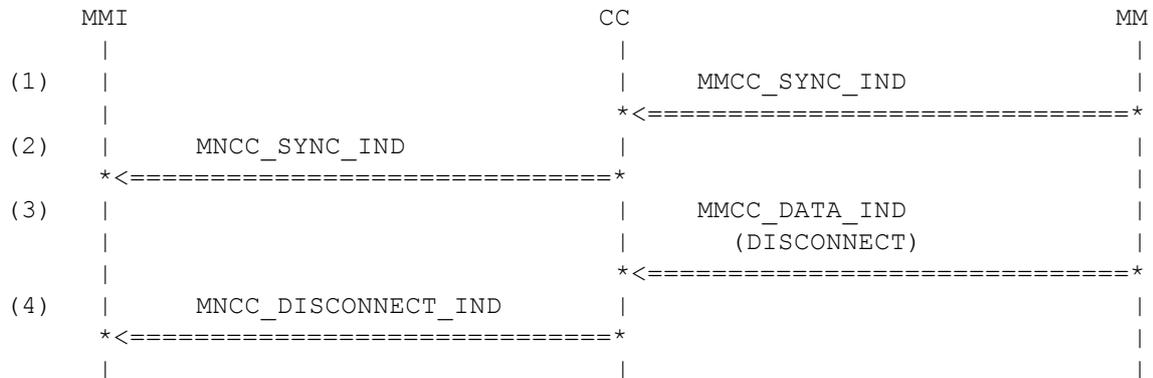
Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_DISCONNECT
	ti	TI_MO_5_RESP
	cc_cause	CC_CAUSE_UNSPECIFIED
	facility	NOT_USED
	progress	NOT_USED
	user_user	NOT_USED
	}	
(2) MNCC_DISCONNECT_IND	ti	TI_MO_5
	cause	MNCC_CAUSE_UNSPECIFIED
	diagnostic	NOT_USED
	progress_desc	NOT_USED

History:	25-Apr-97	DL	Initial
	29-Jul-97	VK	next state is U19
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.6.40 CC408: DISCONNECT message received from network (U10)

**Description:** While in the state ACTIVE (U10) CC receives a DISCONNECT message as part of a MMCC-DATA indication primitive. The message contains the information in-band tones available.

**Preamble:** CC032



**Parametrization**

Primitive	Parameter	Value
(1) MMCC_SYNC_IND	ti	TI_MO_5
	chm	CH_SPEECH_FULL
(2) MNCC_SYNC_IND	ti	TI_MO_5
	cause	MNCC_CAUSE_CHANNEL_SYNC
	chm	CH_SPEECH_FULL
(3) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_DISCONNECT
	ti	TI_MO_5_RESP
	cc_cause	CC_CAUSE_UNSPECIFIED
	facility	NOT_USED
	progress	PROGRESS_INBAND_AVAIL
	user_user	NOT_USED
	}	
	(4) MNCC_DISCONNECT_IND	ti
cause		MNCC_CAUSE_UNSPECIFIED
diagnostic		NOT_USED
progress_desc		PROG_INBAND_AVAIL

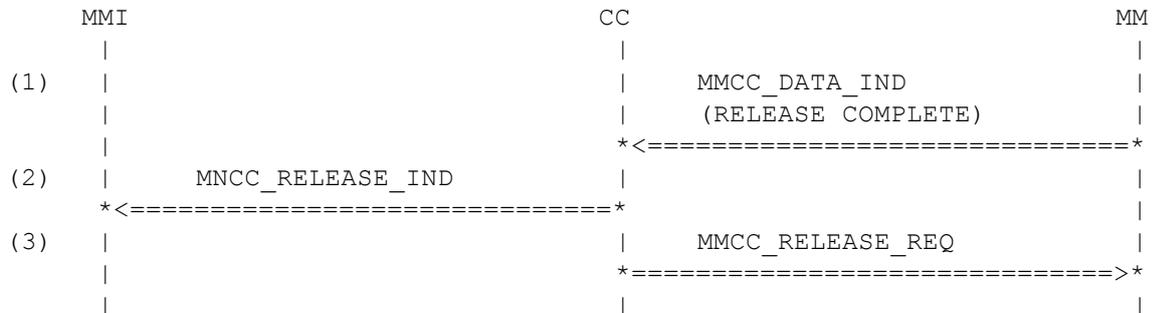
---

History:	29-Jul-97	VK	Initial (preamble for CC412)
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.6.41 CC418: RELEASE COMPLETE message received from network (U10)

**Description:** While in the state ACTIVE (U10) CC receives a RELEASE COMPLETE message as part of a MMCC-DATA indication primitive. CC issues a MNCC RELEASE CNF indication primitive to MMI, releases the connection and enters the state NULL (U0).

**Preamble:** CC032



#### Parametrization

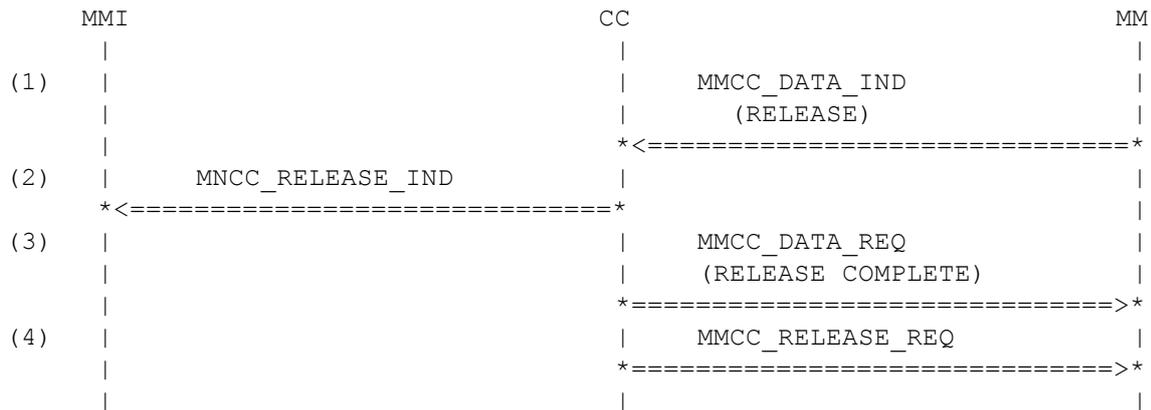
Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_RELEASE_COMP
	ti	TI_MO_5_RESP
	cc_cause	CC_CAUSE_CALL_CLEAR
	facility	NOT_USED
	user_user	NOT_USED
	}	
	(2) MNCC_RELEASE_IND	ti
cause		MNCC_CAUSE_CALL_CLEAR
(3) MMCC_RELEASE_REQ	ti	TI_MO_5

History:	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.6.42 CC404: RELEASE message received – mobile originated call release (U11)

**Description:** While in the state DISCONNECT REQUEST (U11) CC receives a RELEASE message in the form of a MMCC-DATA indication primitive. CC builds a RELEASE COMPLETE message and sends this in the form of a MMCC-DATA indication primitive to MM. CC then issues a MNCC-RELEASE indication primitive to MMI and a MMCC-RELEASE indication primitive to MM and then enters the state NULL (U0). (Ref. [1] 5.4.3.3)

**Preamble:** CC402



**Parametrization**

Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_RELEASE
	ti	TI_MO_5_RESP
	cc_cause	CC_CAUSE_CALL_CLEAR
	cc_cause_2	NOT_USED
	facility	NOT_USED
	user_user	NOT_USED
	}	
	(2) MNCC_RELEASE_IND	ti
cause		MNCC_CAUSE_CALL_CLEAR
(3) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC

direction	UPLINK
pd	U_RELEASE_COMP
ti	TI_MO_5
cc_cause	NOT_USED
facility	NOT_USED
user_user	NOT_USED
}	

( 4 ) MMCC\_RELEASE\_REQ

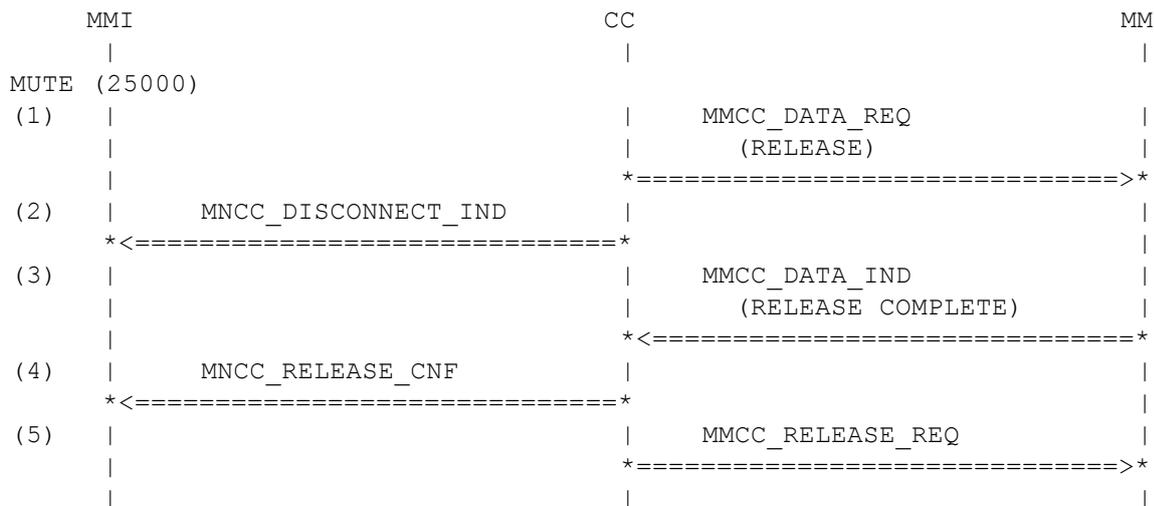
ti	TI_MO_5
----	---------

History:	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	09-Jul-01	JHU	Converted to TAP2

### 3.6.43 CC405: No response to DISCONNECT message (U11)

**Description:** While in the state DISCONNECT REQUEST (U11) the T308 timer expires before the network has responded to the previous DISCONNECT message. CC builds a RELEASE message and sends this in the form of a MMCC-DATA indication primitive to MM followed by a MNCC-DISCONNECT indication primitive to MMI. On receipt of a RELEASE COMPLETE message as part of a MMCC-DATA indication primitive CC issues a MNCC-RELEASE confirmation primitive to MMI followed by a MMCC-RELEASE request primitive to MM and then enters the state NULL (U0). (Ref. [1] 5.4.3.5)

**Preamble:** CC402



#### Parametrization

Primitive	Parameter	Value
(1) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_RELEASE
	ti	TI_MO_5
	cc_cause	CC_CAUSE_CALL_CLEAR
	cc_cause_2	NOT_USED
	facility	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	}	
(2) MNCC_DISCONNECT_IND	ti	TI_MO_5
	cause	ACI_CAUSE_CALL_CLEAR

		diagnostic	NOT_USED
		progress_desc	NOT_USED
( 3 )	MMCC_DATA_IND		
		d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	DOWNLINK
		pd	D_RELEASE_COMP
		ti	TI_MO_5_RESP
		cc_cause	CC_CAUSE_CALL_CLEAR
		facility	NOT_USED
		user_user	NOT_USED
		}	
( 4 )	MNCC_RELEASE_CNF		
		ti	TI_MO_5
		cause	MNCC_CAUSE_CALL_CLEAR
( 5 )	MMCC_RELEASE_REQ		
		ti	TI_MO_5
History:	25-Apr-97	DL	Initial
	29-Jul-97	VK	timer is T305 (ref [1], 5.4.3.5)
	29-Jul-97	VK	RELEASE_CNF param revised
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	25-Jan-00	HM	empty facility added
	21-Mar-00	HM	and empty facility removed
	09-Jul-01	JHU	Converted to TAP2

### 3.6.44 CC415: No response to RELEASE message (U11)

**Description:** CC is in the state DISCONNECT REQUEST (U11). It transmits a RELEASE message as part of a MMCC-DATA request primitive to MM. There is no response from the network, therefore; following expiry of the T308 timer, CC restarts the timer retransmits the RELEASE message. When T308 timer expiry occurs a second time CC issues a MNCC-RELEASE confirmation primitive to MMI followed by a MMCC-RELEASE request primitive to MM and then enters the state NULL (U0). (Ref. [1] 5.4.3.5)

**Preamble:** CC402

```

      MMI                               CC                               MM
      |                                 |                                 |
MUTE (25000)
(1)  |                                 |   MMCC_DATA_REQ             |
      |                                 |   (RELEASE)                 |
      |                                 | *=====>*                 |
(2)  |   MNCC_DISCONNECT_IND         |                                 |
      | *<=====*                     |                                 |
MUTE (25000)
(3)  |                                 |   MMCC_DATA_REQ             |
      |                                 |   (RELEASE)                 |
      |                                 | *=====>*                 |
MUTE (25000)
(4)  |   MNCC_RELEASE_CNF           |                                 |
      | *<=====*                     |                                 |
(5)  |                                 |   MMCC_RELEASE_REQ         |
      |                                 | *=====>*                 |
      |                                 |                                 |

```

#### Parametrization

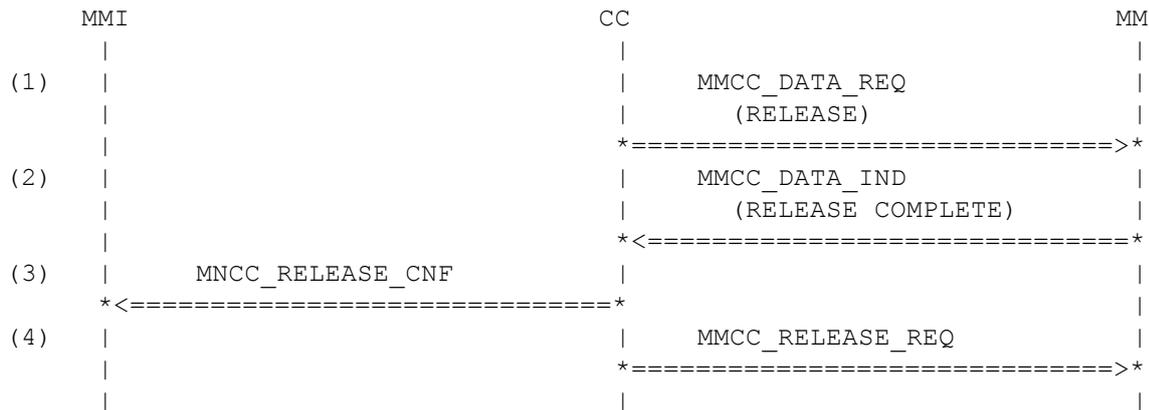
Primitive	Parameter	Value
(1) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	{
	component	CC
	direction	UPLINK
	pd	U_RELEASE
	ti	TI_MO_5
	cc_cause	CC_CAUSE_CALL_CLEAR
	cc_cause_2	NOT_USED
	facility	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	}	
(2) MNCC_DISCONNECT_IND	ti	TI_MO_5
	cause	ACI_CAUSE_CALL_CLEAR

		diagnostic	NOT_USED
		progress_desc	NOT_USED
( 3 )	MMCC_DATA_REQ		
		d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	U_RELEASE
		ti	TI_MO_5
		cc_cause	CC_CAUSE_CALL_CLEAR
		cc_cause_2	NOT_USED
		facility	NOT_USED
		user_user	NOT_USED
		ss_version	NOT_USED
		}	
( 4 )	MNCC_RELEASE_CNF		
		ti	TI_MO_5
		cause	MNCC_CAUSE_MS_TIMER
( 5 )	MMCC_RELEASE_REQ		
		ti	TI_MO_5
History:	25-Apr-97	DL	Initial
	29-Jul-97	VK	remove 'timeout' comments
	29-Jul-97	VK	cc_cause in U_RELEASE :
NOT_USED			
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	25-Jan-99	HM	empty facilities added
	21-Mar-00	HM	and empty facility removed
	09-Jul-01	JHU	Converted to TAP2

### 3.6.45 CC409: No in-band tones - release by MS - mobile originated call release (U12)

**Description:** CC is in the state DISCONNECT INDICATION (U12). As no in-band tones are provided CC starts release immediately by issuing a RELEASE message as part of a MMCC-DATA indication primitive to MM and a MNCC-RELEASE confirmation primitive to MMI. CC then issues a RELEASE COMPLETE message to MM as part of a MMCC-DATA indication primitive and enters the state RELEASE REQUEST (U19). (Ref. [1] 5.4.4.1)

**Preamble:** CC407



#### Parametrization

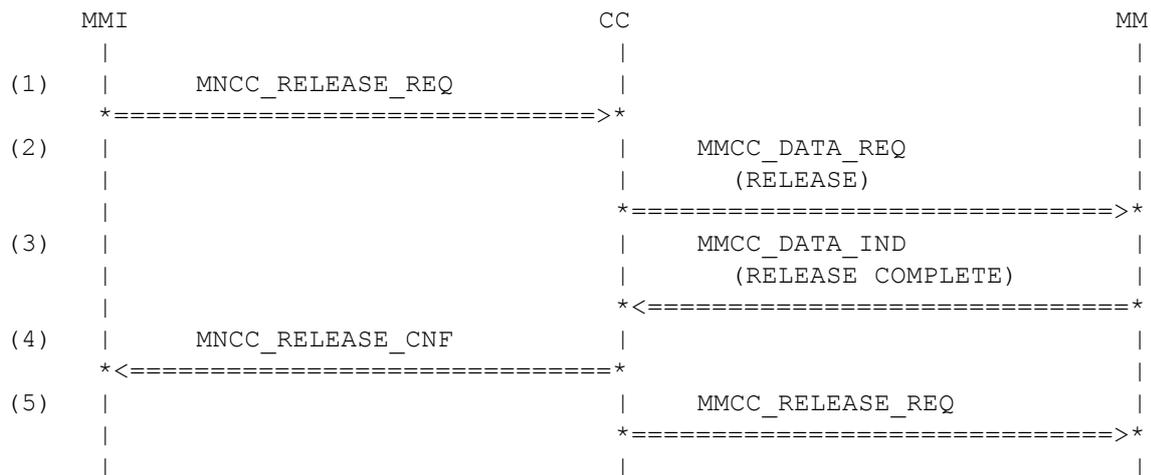
Primitive	Parameter	Value
(1) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_RELEASE
	ti	TI_MO_5
	cc_cause	NOT_USED
	cc_cause_2	NOT_USED
	facility	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	}	
(2) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
pd	D_RELEASE_COMP	
ti	TI_MO_5_RESP	

		cc_cause	CC_CAUSE_CALL_CLEAR
		facility	NOT_USED
		user_user	NOT_USED
		}	
( 3 )	MNCC_RELEASE_CNF		
		ti	TI_MO_5
		cause	MNCC_CAUSE_CALL_CLEAR
( 4 )	MMCC_RELEASE_REQ		
		ti	TI_MO_5
History:	25-Apr-97	DL	Initial
	29-Jul-97	VK	cc_cause in U_RELEASE :
NOT_USED			
	29-Jul-97	VK	RELEASE_CNF param revised
	04-Aug-97	VK	use MMCC_DATA_IND
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	25-Jan-00	HM	empty facilities added
	21-Mar-00	HM	and empty facility removed
	09-Jul-01	JHU	Converted to TAP2

### 3.6.46 CC412: In-band tones – release follows hook-on (U12)

**Description:** CC is in the state DISCONNECT INDICATION (U12). In-band tones are provided, so CC awaits a MNCC-RELEASE request primitive from MMI, indicating that hook-on is complete. CC then issues a RELEASE message as part of a MMCC-DATA indication primitive to MM and a MNCC-RELEASE confirmation primitive to MMI. This is followed by a RELEASE COMPLETE message to MM as part of a MMCC-DATA indication primitive and CC then enters the state RELEASE REQUEST (U19). (Ref. [1] 5.4.4.1)

**Preamble:** CC408



#### Parametrization

Primitive	Parameter	Value
(1) MNCC_RELEASE_REQ	ti	TI_MO_5
	cause	ACI_CAUSE_CALL_CLEAR
	fac_inf	NOT_USED
	ss_version	NOT_USED
(2) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_RELEASE
	ti	TI_MO_5
	cc_cause	CC_CAUSE_CALL_CLEAR
	cc_cause_2	NOT_USED
	facility	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	}	

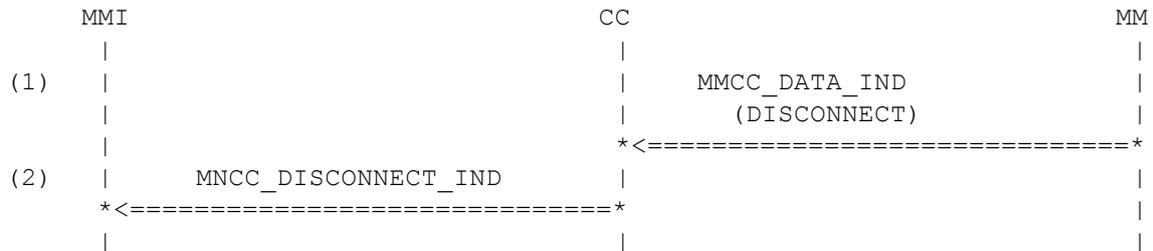
( 3 )	MMCC_DATA_IND	d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	D_RELEASE_COMP
		ti	TI_MO_5_RESP
		cc_cause	CC_CAUSE_CALL_CLEAR
		facility	NOT_USED
		user_user	NOT_USED
		}	
( 4 )	MNCC_RELEASE_CNF	ti	TI_MO_5
		cause	MNCC_CAUSE_CALL_CLEAR
( 5 )	MMCC_RELEASE_REQ	ti	TI_MO_5

History:	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	28-Jul-98	LE	adapted to fax & data
	24-Jan-00	HM	empty facilities added
	21-Mar-00	HM	and empty facility removed
	09-Jul-01	JHU	Converted to TAP2

### 3.6.47 CC420: DISCONNECT received (U3), CCBS, in-band tones

**Description:** While in the state MO CALL PROCEEDING (U3) CC receives a DISCONNECT message as part of a MNCC-DATA request primitive. CC sends a MNCC-DISCONNECT indication primitive to MMI and await user decision about CCBS. The connection must't be released without further user interaction, CC has to stay in state DISCONNECT INDICATION (U12).

**Preamble:** CC026A



#### Parametrization

Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_DISCONNECT
	ti	TI_MO_5_RESP
	cc_cause	CC_CAUSE_USER_BUSY
	facility	NOT_USED
	progress	PROGRESS_INBAND_AVAIL
	user_user	NOT_USED
	allowed_actions	ALLOWED_ACTIONS_CCBS_ON
	}	
(2) MNCC_DISCONNECT_IND	ti	TI_MO_5
	cause	MNCC_CAUSE_USER_BUSY
	diagnostic	DIAG_CCBS_POSSIBLE
	progress_desc	PROG_INBAND_AVAIL

**History:**

21-Jan-00	HM	Initial
09-Jul-01	JHU	Converted to TAP2
26-Nov-01	OT	Variant CC026A instead of CC026

### 3.6.48 CC421: DISCONNECT received (U3), CCBS, no in-band tones

**Description:** CC received a DISCONNECT message, CCBS activation is possible. No in-band tones are provided by the network. The connection mustn't be released, CC has to stay in state U12.

**Preamble:** CC026A

	MMI		CC		MM
(1)				MMCC_DATA_IND	
				(DISCONNECT)	
				*<=====*	
(2)		MNCC_DISCONNECT_IND			
		*<=====*			

**Parametrization**

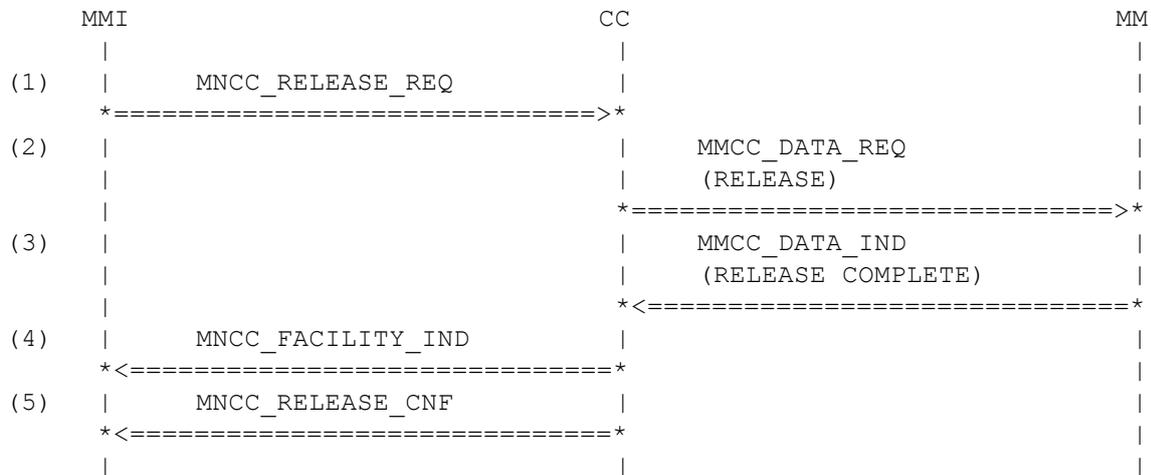
	<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1)	MMCC_DATA_IND	d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	DOWNLINK
		pd	D_DISCONNECT
		ti	TI_MO_5_RESP
		cc_cause	CC_CAUSE_USER_BUSY
		facility	NOT_USED
		progress	NOT_USED
		user_user	NOT_USED
		allowed_actions	ALLOWED_ACTIONS_CCBS_ON
		}	
(2)	MNCC_DISCONNECT_IND	ti	TI_MO_5
		cause	MNCC_CAUSE_USER_BUSY
		diagnostic	DIAG_CCBS_POSSIBLE
		progress_desc	NOT_USED

<b>History:</b>	21-Jan-00	HM	Initial
	09-Jul-01	JHU	Converted to TAP2
	26-Nov-01	OT	Variant CC026A instead of CC026

### 3.6.49 CC422: RELEASE sent with CCBS activation

**Description:** The user wants to invoke CCBS, a RELEASE message with facility is sent to the network.

**Preamble:** CC421



#### Parametrization

Primitive	Parameter	Value
(1) MNCC_RELEASE_REQ	ti	TI_MO_5
	cause	ACI_CAUSE_CALL_CLEAR
	fac_inf	FACILITY_A_FAC
	ss_version	SS_VERSION_3
(2) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_RELEASE
	ti	TI_MO_5
	cc_cause	CC_CAUSE_CALL_CLEAR
	cc_cause_2	NOT_USED
	facility	FACILITY_A
	user_user	NOT_USED
	ss_version	SS_VERS_3
	}	
(3) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	}	

		component	CC
		direction	DOWNLINK
		pd	D_RELEASE_COMP
		ti	TI_MO_5_RESP
		cc_cause	CC_CAUSE_CALL_CLEAR
		facility	FACILITY_A
		user_user	NOT_USED
		}	
( 4 )	MNCC_FACILITY_IND	ti	TI_MO_5
		fac_context	FAC_IN_RELEASE_COMP
		fac_inf	FACILITY_A_FAC
( 5 )	MNCC_RELEASE_CNF	ti	TI_MO_5
		cause	MNCC_CAUSE_CALL_CLEAR
History:	21-Jan-00	HM	Initial
	21-Mar-00	HM	Enhanced
	19-Mar-02	HM	Changed order of primitives

### 3.7 Bearer Capability Handling

#### 3.7.1 CC500: MOC, Speech, Fullrate only

**Description:** A mobile originated call is started for speech in the GSM 900 range. The PC version has only fullrate enabled for GSM 900.

**Preamble:** CC000

MMI	CC	MM
COMMAND (PL CONFIG STD=1)		
(1)   MNCC_SETUP_REQ		
(2)	MMCC_ESTABLISH_REQ	
(3)	MMCC_ESTABLISH_CNF	
(4)	MMCC_DATA_REQ	
	(SETUP)	

#### Parametrization

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) MNCC_SETUP_REQ	ti	TI_MO_5
	prio	PRIO_NORM_CALL
	ri	NOT_PRESENT_8BIT
	bcpara	BC_PARA_SPEECH
	bcpara2	BC_PARA_NO_SERVICE
	called_party	CLED_PARTY_654321
	called_party_sub	CLED_PARTY_SUB_NONE
	clir_sup	NOT_PRESENT_8BIT
	fac_inf	NOT_USED
(2) MMCC_ESTABLISH_REQ	ti	TI_MO_5
	estcs	ESTCS_MOB_ORIG_SPCH
(3) MMCC_ESTABLISH_CNF	ti	TI_MO_5
(4) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_SETUP
	ti	TI_MO_5

repeat	NOT_USED
bearer_cap	BC_SPEECH_FR
bearer_cap_2	NOT_USED
facility	NOT_USED
calling_subaddr	NOT_USED
ul_called_num	UL_CLED_NUM_654321
called_subaddr	NOT_USED
repeat_2	NOT_USED
low_layer_comp	NOT_USED
low_layer_comp_2	NOT_USED
repeat_3	NOT_USED
high_layer_comp	NOT_USED
high_layer_comp_2	NOT_USED
user_user	NOT_USED
ss_version	NOT_USED
clir_suppr	NOT_USED
clir_invoc	NOT_USED
call_ctrl_cap	CALL_CTRL_CAP_1
}	

History:	23-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2

### 3.7.2 CC501: MOC, Speech, Fullrate and Halfrate

**Description:** A mobile originated call is started for speech in the DCS 1800 range. The PC version has enabled fullrate and halfrate for DCS 1800. It is expected that the bearer capability indicates dual rate, full rate preferred.

**Preamble:** CC000

MMI	CC	MM
COMMAND (PL CONFIG STD=4)		
(1)   MNCC_SETUP_REQ		
*=====>*		
(2)	MMCC_ESTABLISH_REQ	
	*=====>*	
(3)	MMCC_ESTABLISH_CNF	
	*<=====*	
(4)	MMCC_DATA_REQ	
	(SETUP)	
	*=====>*	

#### Parametrization

Primitive	Parameter	Value
(1) MNCC_SETUP_REQ	ti	TI_MO_5
	prio	PRIO_NORM_CALL
	ri	NOT_PRESENT_8BIT
	bcpara	BC_PARA_SPEECH
	bcpara2	BC_PARA_NO_SERVICE
	called_party	CLED_PARTY_654321
	called_party_sub	CLED_PARTY_SUB_NONE
	clir_sup	NOT_PRESENT_8BIT
	fac_inf	NOT_USED
(2) MMCC_ESTABLISH_REQ	ti	TI_MO_5
	estcs	ESTCS_MOB_ORIG_SPCH
(3) MMCC_ESTABLISH_CNF	ti	TI_MO_5
(4) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_SETUP
	ti	TI_MO_5
	repeat	NOT_USED

bearer_cap	BC_SPEECH_FR_HR
bearer_cap_2	NOT_USED
facility	NOT_USED
calling_subaddr	NOT_USED
ul_called_num	UL_CLED_NUM_654321
called_subaddr	NOT_USED
repeat_2	NOT_USED
low_layer_comp	NOT_USED
low_layer_comp_2	NOT_USED
repeat_3	NOT_USED
high_layer_comp	NOT_USED
high_layer_comp_2	NOT_USED
user_user	NOT_USED
ss_version	NOT_USED
clir_suppr	NOT_USED
clir_invoc	NOT_USED
call_ctrl_cap	CALL_CTRL_CAP_1
}	

History:	23-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2

### 3.7.3 CC502: MOC, Speech, Fullrate, Halfrate and Enhanced Fullrate

**Description:** A mobile originated call is started for speech in the PCS 1900 range. The PC version has enabled fullrate, halfrate and enhanced fullrate for PCS 1900. It is expected that the bearer capability indicates dual rate, full rate preferred and three extensions of octet 3 for fullrate, enhanced fullrate and halfrate.

**Preamble:** CC000

MMI	CC	MM
COMMAND (PL CONFIG STD=3)		
(1)   MNCC_SETUP_REQ		
(2)	MMCC_ESTABLISH_REQ	
(3)	MMCC_ESTABLISH_CNF	
(4)	MMCC_DATA_REQ	
	(SETUP)	

#### Parametrization

Primitive	Parameter	Value
(1) MNCC_SETUP_REQ	ti	TI_MO_5
	prio	PRIO_NORM_CALL
	ri	NOT_PRESENT_8BIT
	bcpara	BC_PARA_SPEECH
	bcpara2	BC_PARA_NO_SERVICE
	called_party	CLED_PARTY_654321
	called_party_sub	CLED_PARTY_SUB_NONE
	clir_sup	NOT_PRESENT_8BIT
fac_inf	NOT_USED	
(2) MMCC_ESTABLISH_REQ	ti	TI_MO_5
	estcs	ESTCS_MOB_ORIG_SPCH
(3) MMCC_ESTABLISH_CNF	ti	TI_MO_5
(4) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_SETUP
	ti	TI_MO_5

repeat	NOT_USED
bearer_cap	BC_SPEECH_FR_HR_EFR
bearer_cap_2	NOT_USED
facility	NOT_USED
calling_subaddr	NOT_USED
ul_called_num	UL_CLED_NUM_654321
called_subaddr	NOT_USED
repeat_2	NOT_USED
low_layer_comp	NOT_USED
low_layer_comp_2	NOT_USED
repeat_3	NOT_USED
high_layer_comp	NOT_USED
high_layer_comp_2	NOT_USED
user_user	NOT_USED
ss_version	NOT_USED
clir_suppr	NOT_USED
clir_invoc	NOT_USED
call_ctrl_cap	CALL_CTRL_CAP_1
}	

History:	23-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2

### 3.7.4 CC503: MOC, Speech, Fullrate and Enhanced Fullrate

**Description:** A mobile originated call is started for speech in the Dualband range. The PC version has enabled fullrate and enhanced fullrate for Dualband. It is expected that the bearer capability indicates full rate support only mobile stations and two extensions of octet 3 for fullrate and enhanced fullrate.

**Preamble:** CC000

```

MMI                                     CC                                     MM
|                                     |                                     |
COMMAND (PL CONFIG STD=5)              |                                     |
|                                     |                                     |
(1) | MNCC_SETUP_REQ                   |                                     |
    *=====>*                          |                                     |
(2) |                                     | MMCC_ESTABLISH_REQ                |
    *=====>*                          |                                     |
(3) |                                     | MMCC_ESTABLISH_CNF                |
    *<=====*                           |                                     |
(4) |                                     | MMCC_DATA_REQ                    |
    |                                     | (SETUP)                          |
    *=====>*                          |                                     |
|                                     |                                     |

```

#### Parametrization

Primitive	Parameter	Value
(1) MNCC_SETUP_REQ	ti	TI_MO_5
	prio	PRIO_NORM_CALL
	ri	NOT_PRESENT_8BIT
	bcpara	BC_PARA_SPEECH
	bcpara2	BC_PARA_NO_SERVICE
	called_party	CLED_PARTY_654321
	called_party_sub	CLED_PARTY_SUB_NONE
	clir_sup	NOT_PRESENT_8BIT
fac_inf	NOT_USED	
(2) MMCC_ESTABLISH_REQ	ti	TI_MO_5
	estcs	ESTCS_MOB_ORIG_SPCH
(3) MMCC_ESTABLISH_CNF	ti	TI_MO_5
(4) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_SETUP
	ti	TI_MO_5

repeat	NOT_USED
bearer_cap	BC_SPEECH_FR_EFR
bearer_cap_2	NOT_USED
facility	NOT_USED
calling_subaddr	NOT_USED
ul_called_num	UL_CLED_NUM_654321
called_subaddr	NOT_USED
repeat_2	NOT_USED
low_layer_comp	NOT_USED
low_layer_comp_2	NOT_USED
repeat_3	NOT_USED
high_layer_comp	NOT_USED
high_layer_comp_2	NOT_USED
user_user	NOT_USED
ss_version	NOT_USED
clir_suppr	NOT_USED
clir_invoc	NOT_USED
call_ctrl_cap	CALL_CTRL_CAP_1
}	

History:	23-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2

### 3.7.5 CC900: MOC, EC–Speech, Fullrate, Halfrate and Enhanced Fullrate

**Description:** A mobile originated call is started for speech in the PCS 1900 range. The PC version has enabled fullrate, halfrate and enhanced fullrate for PCS 1900. It is expected that the bearer capability indicates dual rate, full rate preferred and three extensions of octet 3 for fullrate, enhanced fullrate and halfrate.

**Preamble:** CC000

```

MMI                                     CC                                     MM
|                                     |                                     |
COMMAND (PL CONFIG STD=3)              |                                     |
|                                     |                                     |
(1) | MNCC_SETUP_REQ                   |                                     |
    *=====>*                          |                                     |
(2) |                                     | MMCC_ESTABLISH_REQ                 |
    |                                     | *=====>*                          |
(3) |                                     | MMCC_ESTABLISH_CNF                 |
    |                                     | *<=====*                          |
(4) |                                     | MMCC_DATA_REQ                     |
    |                                     | (EMERGENCY SETUP)                 |
    |                                     | *=====>*                          |
    |                                     |                                     |

```

#### Parametrization

Primitive	Parameter	Value
(1) MNCC_SETUP_REQ	ti	TI_MO_5
	prio	PRIO_EMERG_CALL
	ri	NOT_PRESENT_8BIT
	bcpara	BC_PARA_SPEECH
	bcpara2	BC_PARA_NO_SERVICE
	called_party	CLED_PARTY_654321
	called_party_sub	CLED_PARTY_SUB_NONE
	fac_inf	NOT_USED
(2) MMCC_ESTABLISH_REQ	ti	TI_MO_5
	estcs	ESTCS_EMERGE
(3) MMCC_ESTABLISH_CNF	ti	TI_MO_5
(4) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_EMERGE_SETUP
ti	TI_MO_5	

bearer\_cap  
}

BC\_SPEECH\_FR\_HR\_EFR

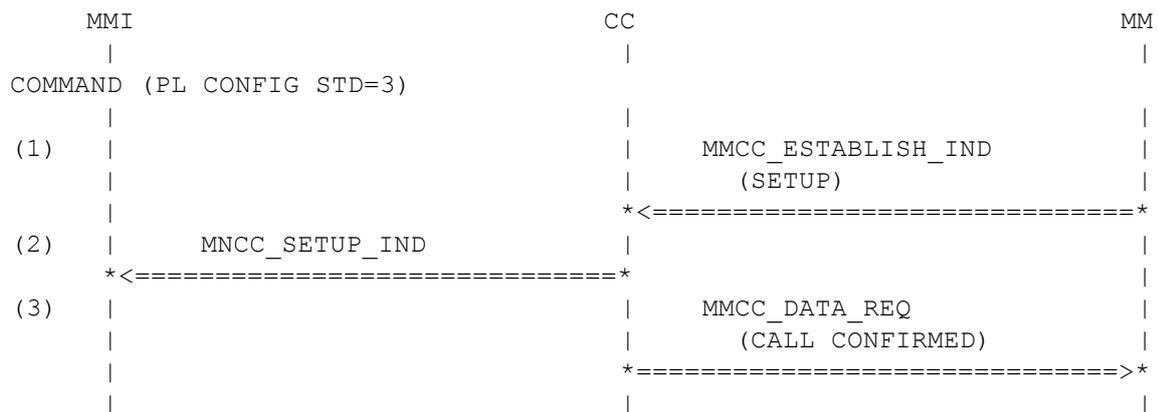
History:	23-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	12-Jul-02	HM	ESTCS_EMERGE for emergency call

### 3.7.6 CC901: MTC, Speech, accepted, with EFR

**Description:** CC receives a SETUP message from the network in the form of a MMCC-ESTABLISH indication primitive. CC enters the state CALL PRESENT (U6) and starts compatibility checks. (Ref. [1] 5.2.2.1)

The compatibility checks have been evaluated successfully. CC sends a MNCC-SETUP indication primitive to MMI, builds a CALL CONFIRMED message and sends this in the form of a MNCC-DATA request primitive to MM, and enters the state MT CALL CONFIRMED (U9). (Ref. [1] 5.2.2.3.1)

**Preamble:** CC000



#### Parametrization

Primitive	Parameter	Value
(5) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_SPEECH_FR
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
repeat_2	NOT_USED	

		low_layer_comp	NOT_USED
		low_layer_comp_2	NOT_USED
		repeat_3	NOT_USED
		high_layer_comp	NOT_USED
		high_layer_comp_2	NOT_USED
		user_user	NOT_USED
		}	
( 6 )	MNCC_SETUP_IND		
		ti	TI_MT_1_RESP
		ri	NOT_PRESENT_8BIT
		bcpara	BC_PARA_SPEECH
		bcpara2	BC_PARA_NO_SERVICE
		progress_desc	PROG_END_TO_END_PLMN
		sig	SIGNAL_DIAL_ON
		calling_party	CLNG_PARTY_654321
		calling_party_sub	NOT_USED
		called_party	CLED_PARTY_654321
		called_party_sub	NOT_USED
		redirecting_party	REDIR_PARTY_NONE
		redirecting_party_sub	REDIR_PARTY_SUB_NONE
( 7 )	MMCC_DATA_REQ		
		d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	U_CALL_CONF
		ti	TI_MT_1_RESP
		repeat	NOT_USED
		bearer_cap	BC_SPEECH_FR_HR_EFR
		bearer_cap_2	NOT_USED
		cc_cause	NOT_USED
		}	
History:	24-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target

### 3.7.7 CC902: MOC, Speech, Fullrate, Halfrate Enhanced Fullrate, AMR Half- & Fullrate

**Description:** A mobile originated call is started for speech in the PCS 1900 range. The PC version has enabled fullrate, halfrate, enhanced fullrate and amr half- & fullrate for PCS 1900. It is expected that the bearer capability indicates dual rate, full rate preferred and five extensions of octet 3 for amr\_fr, amr\_hr, efr, hr, fr.

**Preamble:** CC000

```

MMI                                     CC                                     MM
|                                     |                                     |
COMMAND (PL CONFIG STD=30)            |                                     |
|                                     |                                     |
(1) | MNCC_SETUP_REQ                  |                                     |
    | *=====>*                       |                                     |
(2) |                                 | MMCC_ESTABLISH_REQ          |
    | *=====>*                       |                                     |
(3) |                                 | MMCC_ESTABLISH_CNF          |
    | *<=====*                       |                                     |
(4) |                                 | MMCC_DATA_REQ            |
    |                                 | (SETUP)                   |
    | *=====>*                       |                                     |
    |                                 |                                     |

```

#### Parametrization

Primitive	Parameter	Value
(1) MNCC_SETUP_REQ	ti	TI_MO_5
	prio	PRIO_NORM_CALL
	ri	NOT_PRESENT_8BIT
	bcpara	BC_PARA_SPEECH
	bcpara2	BC_PARA_NO_SERVICE
	called_party	CLED_PARTY_654321
	called_party_sub	CLED_PARTY_SUB_NONE
	clir_sup	NOT_PRESENT_8BIT
fac_inf	NOT_USED	
(2) MMCC_ESTABLISH_REQ	ti	TI_MO_5
	estcs	ESTCS_MOB_ORIG_SPCH
(3) MMCC_ESTABLISH_CNF	ti	TI_MO_5
(4) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_SETUP
	ti	TI_MO_5

repeat	NOT_USED
bearer_cap	BC_SPEECH_AMR_EFR_HR_FR
bearer_cap_2	NOT_USED
facility	NOT_USED
calling_subaddr	NOT_USED
ul_called_num	UL_CLED_NUM_654321
called_subaddr	NOT_USED
repeat_2	NOT_USED
low_layer_comp	NOT_USED
low_layer_comp_2	NOT_USED
repeat_3	NOT_USED
high_layer_comp	NOT_USED
high_layer_comp_2	NOT_USED
user_user	NOT_USED
ss_version	NOT_USED
clir_suppr	NOT_USED
clir_invoc	NOT_USED
call_ctrl_cap	CALL_CTRL_CAP_1
}	

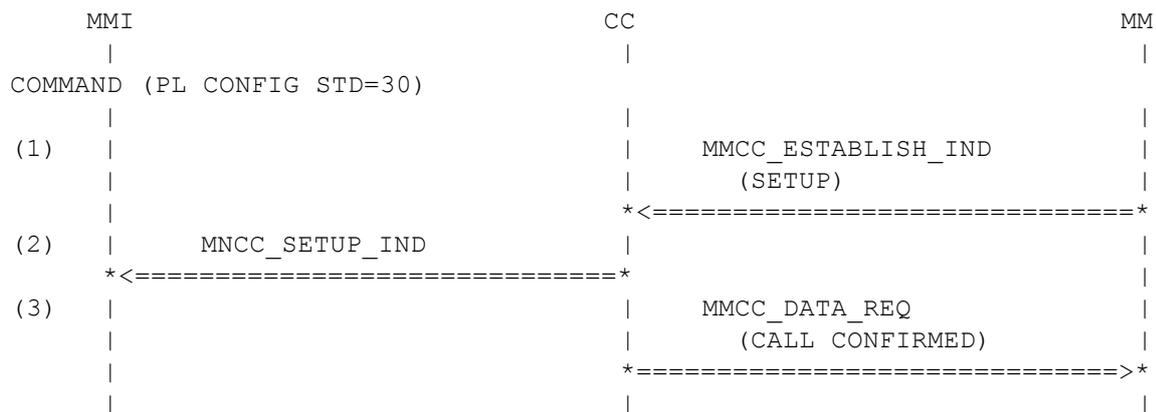
History:	23-Nov-01	OT	Initial
	11-Jun-02	HM	std=30 instead of std=8

### 3.7.8 CC903: MTC, Speech, accepted, with AMR\_FR

**Description:** CC receives a SETUP message from the network in the form of a MMCC-ESTABLISH indication primitive. CC enters the state CALL PRESENT (U6) and starts compatibility checks. (Ref. [1] 5.2.2.1)

The compatibility checks have been evaluated successfully. CC sends a MNCC-SETUP indication primitive to MMI, builds a CALL CONFIRMED message and sends this in the form of a MNCC-DATA request primitive to MM, and enters the state MT CALL CONFIRMED (U9). (Ref. [1] 5.2.2.3.1)

**Preamble:** CC000



#### Parametrization

Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_SPEECH_AMR_EFR_HR_FR
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
repeat_2	NOT_USED	

		low_layer_comp	NOT_USED
		low_layer_comp_2	NOT_USED
		repeat_3	NOT_USED
		high_layer_comp	NOT_USED
		high_layer_comp_2	NOT_USED
		user_user	NOT_USED
		}	
(2)	MNCC_SETUP_IND		
		ti	TI_MT_1_RESP
		ri	NOT_PRESENT_8BIT
		bcpara	BC_PARA_SPEECH
		bcpara2	NOT_USED
		progress_desc	PROG_END_TO_END_PLMN
		sig	SIGNAL_DIAL_ON
		calling_party	CLNG_PARTY_654321
		calling_party_sub	NOT_USED
		called_party	CLED_PARTY_654321
		called_party_sub	NOT_USED
		redirecting_party	REDIR_PARTY_NONE
		redirecting_party_sub	REDIR_PARTY_SUB_NONE
(3)	MMCC_DATA_REQ		
		d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	U_CALL_CONF
		ti	TI_MT_1_RESP
		repeat	NOT_USED
		bearer_cap	NOT_USED
		bearer_cap_2	NOT_USED
		cc_cause	NOT_USED
		}	
History:	23-Nov-01	OT	Initial
	05-Apr-02	HM	call_ctrl_cap removed as in target
	11-Jun-02	HM	std=30 instead of std=8

### 3.7.9 CC504: MTC, Speech, accepted

**Description:** CC receives a SETUP message from the network in the form of a MMCC-ESTABLISH indication primitive. CC enters the state CALL PRESENT (U6) and starts compatibility checks. (Ref. [1] 5.2.2.1)

The compatibility checks have been evaluated successfully. CC sends a MNCC-SETUP indication primitive to MMI, builds a CALL CONFIRMED message and sends this in the form of a MNCC-DATA request primitive to MM, and enters the state MT CALL CONFIRMED (U9). (Ref. [1] 5.2.2.3.1)

**Preamble:** CC000



#### Parametrization

Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_SPEECH_FR
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
	repeat_2	NOT_USED
low_layer_comp	NOT_USED	
low_layer_comp_2	NOT_USED	

		repeat_3	NOT_USED
		high_layer_comp	NOT_USED
		high_layer_comp_2	NOT_USED
		user_user	NOT_USED
		}	
(2)	MNCC_SETUP_IND		
		ti	TI_MT_1_RESP
		ri	NOT_PRESENT_8BIT
		bcpara	BC_PARA_SPEECH
		bcpara2	BC_PARA_NO_SERVICE
		progress_desc	PROG_END_TO_END_PLMN
		sig	SIGNAL_DIAL_ON
		calling_party	CLNG_PARTY_654321
		calling_party_sub	NOT_USED
		called_party	CLED_PARTY_654321
		called_party_sub	NOT_USED
		redirecting_party	REDIR_PARTY_NONE
		redirecting_party_sub	REDIR_PARTY_SUB_NONE
(3)	MMCC_DATA_REQ		
		d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	U_CALL_CONF
		ti	TI_MT_1_RESP
		repeat	NOT_USED
		bearer_cap	NOT_USED
		bearer_cap_2	NOT_USED
		cc_cause	NOT_USED
		}	
History:	24-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target

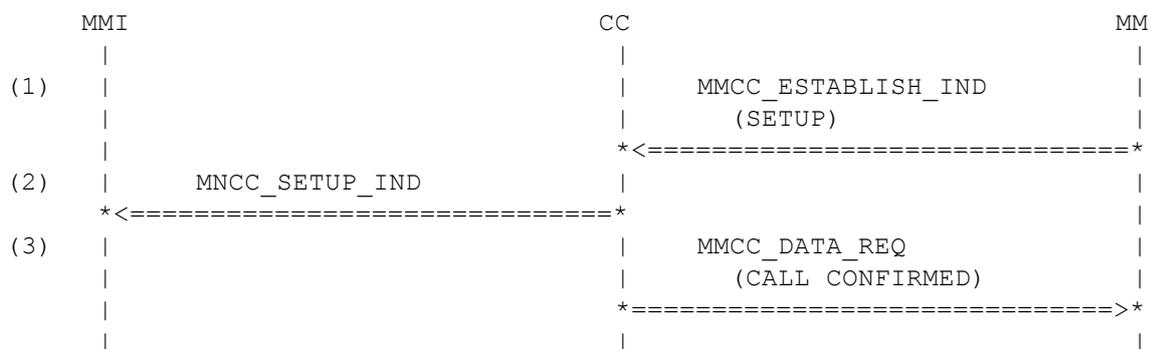
### 3.7.10 CC505: MTC, no Bearer Capabilities, accepted

**Description:** CC receives a SETUP message from the network in the form of a MMCC-ESTABLISH indication primitive. CC enters the state CALL PRESENT (U6) and starts compatibility checks. (Ref. [1] 5.2.2.1)

The compatibility checks have been evaluated successfully. CC sends a MNCC-SETUP indication primitive to MMI, builds a CALL CONFIRMED message and sends this in the form of a MMCC-DATA request primitive to MM, and enters the state MT CALL CONFIRMED (U9). (Ref. [1] 5.2.2.3.1)

The incoming SETUP message contains no bearer capabilities. CC accepts this and answers in the CALL CONFIRMED message with a speech bearer capability.

**Preamble:** CC000



#### Parametrization

Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	NOT_USED
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
redirecting_num	NOT_USED	
redirecting_subaddr	NOT_USED	

```

repeat_2          NOT_USED
low_layer_comp    NOT_USED
low_layer_comp_2  NOT_USED
repeat_3          NOT_USED
high_layer_comp   NOT_USED
high_layer_comp_2 NOT_USED
user_user         NOT_USED
}

```

## (2) MNCC\_SETUP\_IND

```

ti                TI_MT_1_RESP
ri                NOT_PRESENT_8BIT
bcpara           BC_PARA_SPEECH
bcpara2          BC_PARA_NO_SERVICE
progress_desc     PROG_END_TO_END_PLMN
sig              SIGNAL_DIAL_ON
calling_party     CLNG_PARTY_654321
calling_party_sub NOT_USED
called_party      CLED_PARTY_654321
called_party_sub  NOT_USED
redirecting_party REDIR_PARTY_NONE
redirecting_party_sub REDIR_PARTY_SUB_NONE

```

## (3) MMCC\_DATA\_REQ

```

d1                NOT_USED
d2                NOT_USED
sdu
{
component        CC
direction         UPLINK
pd               U_CALL_CONF
ti               TI_MT_1_RESP
repeat           NOT_USED
bearer_cap       BC_SPEECH_FR
bearer_cap_2     NOT_USED
cc_cause         NOT_USED
}

```

History:	24-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target

### 3.7.11 CC506: MOC, BS21, 3.1 kHz Audio, Transparent, 0.3 kBit/s (I)

**Description:** A mobile originated call is started for transparent asynchronous data with 0.3 kBit/s. This is bearer service 21. The data service is supported in PCS 1900 range by the PC version.

**Preamble:** CC000

MMI	CC	MM
COMMAND (PL CONFIG STD=3)		
(1)   MNCC_SETUP_REQ		
*=====>*		
(2)	MMCC_ESTABLISH_REQ	
	*=====>*	
(3)	MMCC_ESTABLISH_CNF	
	*<=====*	
(4)	MMCC_DATA_REQ	
	(SETUP)	
	*=====>*	

#### Parametrization

Primitive	Parameter	Value
(1) MNCC_SETUP_REQ	ti	TI_MO_5
	prio	PRIO_NORM_CALL
	ri	NOT_PRESENT_8BIT
	bcpara	BC_PARA_BS21_T_300
	bcpara2	BC_PARA_NO_SERVICE
	called_party	CLED_PARTY_654321
	called_party_sub	CLED_PARTY_SUB_NONE
	clir_sup	NOT_PRESENT_8BIT
fac_inf	NOT_USED	
(2) MMCC_ESTABLISH_REQ	ti	TI_MO_5
	estcs	ESTCS_MOB_ORIG_DATA
(3) MMCC_ESTABLISH_CNF	ti	TI_MO_5
(4) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_SETUP
	ti	TI_MO_5
	repeat	NOT_USED

bearer_cap	BC_BS21_T_300
bearer_cap_2	NOT_USED
facility	NOT_USED
calling_subaddr	NOT_USED
ul_called_num	UL_CLED_NUM_654321
called_subaddr	NOT_USED
repeat_2	NOT_USED
low_layer_comp	NOT_USED
low_layer_comp_2	NOT_USED
repeat_3	NOT_USED
high_layer_comp	NOT_USED
high_layer_comp_2	NOT_USED
user_user	NOT_USED
ss_version	NOT_USED
clir_suppr	NOT_USED
clir_invoc	NOT_USED
call_ctrl_cap	CALL_CTRL_CAP_1
}	

History:	23-Jul-98	LE	Initial
	27-Jun-00	HM	establish cause not indicating HR
support	10-Jul-01	JHU	Converted to TAP2

### 3.7.12 CC507: MOC, BS21, 3.1 kHz Audio, Transparent, 0.3 kBit/s (II)

**Description:** A mobile originated call is started for transparent asynchronous data with 0.3 kBit/s. This is bearer service 21. The data service is supported in Dualband range by the PC version. This range supports no halfrate. So a different establishment cause is expected.

**Preamble:** CC000

MMI	CC	MM
COMMAND (PL CONFIG STD=5)		
(1)   MNCC_SETUP_REQ		
*=====>*		
(2)	MMCC_ESTABLISH_REQ	
	*=====>*	
(3)	MMCC_ESTABLISH_CNF	
	*<=====*	
(4)	MMCC_DATA_REQ	
	(SETUP)	
	*=====>*	

#### Parametrization

Primitive	Parameter	Value
(1) MNCC_SETUP_REQ	ti	TI_MO_5
	prio	PRIO_NORM_CALL
	ri	NOT_PRESENT_8BIT
	bcpara	BC_PARA_BS21_T_300
	bcpara2	BC_PARA_NO_SERVICE
	called_party	CLED_PARTY_654321
	called_party_sub	CLED_PARTY_SUB_NONE
	fac_inf	NOT_USED
(2) MMCC_ESTABLISH_REQ	ti	TI_MO_5
	estcs	ESTCS_MOB_ORIG_DATA
(3) MMCC_ESTABLISH_CNF	ti	TI_MO_5
(4) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_SETUP
	ti	TI_MO_5

repeat	NOT_USED
bearer_cap	BC_BS21_T_300_FR
bearer_cap_2	NOT_USED
facility	NOT_USED
calling_subaddr	NOT_USED
ul_called_num	UL_CLED_NUM_654321
called_subaddr	NOT_USED
repeat_2	NOT_USED
low_layer_comp	NOT_USED
low_layer_comp_2	NOT_USED
repeat_3	NOT_USED
high_layer_comp	NOT_USED
high_layer_comp_2	NOT_USED
user_user	NOT_USED
ss_version	NOT_USED
clir_suppr	NOT_USED
clir_invoc	NOT_USED
call_ctrl_cap	CALL_CTRL_CAP_1
}	

History:	23-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2

### 3.7.13 CC508: MOC, BS21, 3.1 kHz Audio, Transparent, 0.3 kBit/s (III)

**Description:** A mobile originated call is started for transparent asynchronous data with 0.3 kBit/s. This is bearer service 21. The data service is not supported in GSM 900 range by the PC version. A release is indicated to the upper layer.

**Preamble:** CC000

	MMI		CC		MM
	COMMAND (PL CONFIG STD=1)				
(1)	MNCC_SETUP_REQ				
	*=====>*				
(2)	MNCC_RELEASE_IND				
	*<=====*				

#### Parametrization

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) MNCC_SETUP_REQ	ti	TI_MO_5
	prio	PRIO_NORM_CALL
	ri	NOT_PRESENT_8BIT
	bcpara	BC_PARA_BS21_T_300
	bcpara2	BC_PARA_NO_SERVICE
	called_party	CLED_PARTY_654321
	called_party_sub	CLED_PARTY_SUB_NONE
	clir_sup	NOT_PRESENT_8BIT
	fac_inf	NOT_USED
(2) MNCC_RELEASE_IND	ti	TI_MO_5
	cause	
	MNCC_CAUSE_MS_BEARER_NOT_IMPLM	

History:	23-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2

### 3.7.14 CC509: MOC, BS21, 3.1 kHz Audio, Non-Transparent, 0.3 kBit/s (I)

**Description:** A mobile originated call is started for non-transparent asynchronous data with 0.3 kBit/s. This is bearer service 21. The data service is supported in PCS 1900 range by the PC version. The indicated flow control is inband flow control.

**Preamble:** CC000

MMI	CC	MM
COMMAND (PL CONFIG STD=3)		
(1)   MNCC_SETUP_REQ		
*=====>*		
(2)	MMCC_ESTABLISH_REQ	
	*=====>*	
(3)	MMCC_ESTABLISH_CNF	
	*<=====*	
(4)	MMCC_DATA_REQ	
	(SETUP)	
	*=====>*	

#### Parametrization

Primitive	Parameter	Value
(1) MNCC_SETUP_REQ	ti	TI_MO_5
	prio	PRIO_NORM_CALL
	ri	NOT_PRESENT_8BIT
	bcpara	BC_PARA_BS21_NT_300_1
	bcpara2	BC_PARA_NO_SERVICE
	called_party	CLED_PARTY_654321
	called_party_sub	CLED_PARTY_SUB_NONE
	clir_sup	NOT_PRESENT_8BIT
fac_inf	NOT_USED	
(2) MMCC_ESTABLISH_REQ	ti	TI_MO_5
	estcs	ESTCS_MOB_ORIG_DATA
(3) MMCC_ESTABLISH_CNF	ti	TI_MO_5
(4) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_SETUP
	ti	TI_MO_5
	repeat	NOT_USED

bearer_cap	BC_BS21_NT_300_1_OUTBAND
bearer_cap_2	NOT_USED
facility	NOT_USED
calling_subaddr	NOT_USED
ul_called_num	UL_CLED_NUM_654321
called_subaddr	NOT_USED
repeat_2	NOT_USED
low_layer_comp	NOT_USED
low_layer_comp_2	NOT_USED
repeat_3	NOT_USED
high_layer_comp	NOT_USED
high_layer_comp_2	NOT_USED
user_user	NOT_USED
ss_version	NOT_USED
clir_suppr	NOT_USED
clir_invoc	NOT_USED
call_ctrl_cap	CALL_CTRL_CAP_1
}	

History:	23-Jul-98	LE	Initial
	27-Jun-00	HM	establish cause not indicating HR
support			
	10-Jul-01	JHU	Converted to TAP2

### 3.7.15 CC510: MOC, BS21, 3.1 kHz Audio, Non-Transparent, 0.3 kBit/s (II)

**Description:** A mobile originated call is started for non-transparent asynchronous data with 0.3 kBit/s. This is bearer service 21. The data service is supported in PCS range by the PC version. The indicated flow control is outband flow control.

**Preamble:** CC000

MMI	CC	MM
COMMAND (PL CONFIG STD=3)		
(1)   MNCC_SETUP_REQ		
*=====>*		
(2)	MMCC_ESTABLISH_REQ	
	*=====>*	
(3)	MMCC_ESTABLISH_CNF	
	*<=====*	
(4)	MMCC_DATA_REQ	
	(SETUP)	
	*=====>*	

#### Parametrization

Primitive	Parameter	Value
(1) MNCC_SETUP_REQ	ti	TI_MO_5
	prio	PRIO_NORM_CALL
	ri	NOT_PRESENT_8BIT
	bcpara	BC_PARA_BS21_NT_300_2
	bcpara2	BC_PARA_NO_SERVICE
	called_party	CLED_PARTY_654321
	called_party_sub	CLED_PARTY_SUB_NONE
	clir_sup	NOT_PRESENT_8BIT
fac_inf	NOT_USED	
(2) MMCC_ESTABLISH_REQ	ti	TI_MO_5
	estcs	ESTCS_MOB_ORIG_DATA
(3) MMCC_ESTABLISH_CNF	ti	TI_MO_5
(4) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_SETUP
	ti	TI_MO_5
	repeat	NOT_USED

bearer_cap	BC_BS21_NT_300_2
bearer_cap_2	NOT_USED
facility	NOT_USED
calling_subaddr	NOT_USED
ul_called_num	UL_CLED_NUM_654321
called_subaddr	NOT_USED
repeat_2	NOT_USED
low_layer_comp	NOT_USED
low_layer_comp_2	NOT_USED
repeat_3	NOT_USED
high_layer_comp	NOT_USED
high_layer_comp_2	NOT_USED
user_user	NOT_USED
ss_version	NOT_USED
clir_suppr	NOT_USED
clir_invoc	NOT_USED
call_ctrl_cap	CALL_CTRL_CAP_1
}	

History:	23-Jul-98	LE	Initial
	27-Jun-00	HM	establish cause not indicating HR
support			
	10-Jul-01	JHU	Converted to TAP2

### 3.7.16 CC511: MOC, BS21, 3.1 kHz Audio, Non-Transparent, 0.3 kBit/s (III)

**Description:** A mobile originated call is started for non-transparent asynchronous data with 0.3 kBit/s. This is bearer service 21. The data service is supported in PCS range by the PC version. The indicated flow control is no flow control.

**Preamble:** CC000

MMI	CC	MM
COMMAND (PL CONFIG STD=3)		
(1)   MNCC_SETUP_REQ		
*=====>*		
(2)	MMCC_ESTABLISH_REQ	
*=====>*		
(3)	MMCC_ESTABLISH_CNF	
*<=====*		
(4)	MMCC_DATA_REQ	
(SETUP)		
*=====>*		

#### Parametrization

Primitive	Parameter	Value
(1) MNCC_SETUP_REQ	ti	TI_MO_5
	prio	PRIO_NORM_CALL
	ri	NOT_PRESENT_8BIT
	bcpara	BC_PARA_BS21_NT_300_3
	bcpara2	BC_PARA_NO_SERVICE
	called_party	CLED_PARTY_654321
	called_party_sub	CLED_PARTY_SUB_NONE
	clir_sup	NOT_PRESENT_8BIT
fac_inf	NOT_USED	
(2) MMCC_ESTABLISH_REQ	ti	TI_MO_5
	estcs	ESTCS_MOB_ORIG_DATA
(3) MMCC_ESTABLISH_CNF	ti	TI_MO_5
(4) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_SETUP
	ti	TI_MO_5
	repeat	NOT_USED

bearer_cap	BC_BS21_NT_300_3
bearer_cap_2	NOT_USED
facility	NOT_USED
calling_subaddr	NOT_USED
ul_called_num	UL_CLED_NUM_654321
called_subaddr	NOT_USED
repeat_2	NOT_USED
low_layer_comp	NOT_USED
low_layer_comp_2	NOT_USED
repeat_3	NOT_USED
high_layer_comp	NOT_USED
high_layer_comp_2	NOT_USED
user_user	NOT_USED
ss_version	NOT_USED
clir_suppr	NOT_USED
clir_invoc	NOT_USED
call_ctrl_cap	CALL_CTRL_CAP_1
}	

History:	23-Jul-98	LE	Initial
	27-Jun-00	HM	establish cause not indicating HR
support			
	10-Jul-01	JHU	Converted to TAP2

### 3.7.17 CC512: MOC, BS21, 3.1 kHz Audio, Non-Transparent, 0.3 kBit/s (IV)

**Description:** A mobile originated call is started for non-transparent asynchronous data with 0.3 kBit/s. This is bearer service 21. The data service is not supported in GSM 900 range by the PC version. A release is indicated to the upper layer.

**Preamble:** CC000

	MMI		CC		MM
	COMMAND (PL CONFIG STD=1)				
(1)	MNCC_SETUP_REQ				
	*=====>*				
(2)	MNCC_RELEASE_IND				
	*<=====*				

**Parametrization**

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) MNCC_SETUP_REQ	ti	TI_MO_5
	prio	PRIO_NORM_CALL
	ri	NOT_PRESENT_8BIT
	bcpara	BC_PARA_BS21_NT_300_1
	bcpara2	BC_PARA_NO_SERVICE
	called_party	CLED_PARTY_654321
	called_party_sub	CLED_PARTY_SUB_NONE
	clir_sup	NOT_PRESENT_8BIT
	fac_inf	NOT_USED
(2) MNCC_RELEASE_IND	ti	TI_MO_5
	cause	
	MNCC_CAUSE_MS_BEARER_NOT_IMPLM	

<b>History:</b>	23-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2



```

high_layer_comp    NOT_USED
high_layer_comp_2  NOT_USED
user_user          NOT_USED
}

```

## (2) MNCC\_SETUP\_IND

```

ti                TI_MT_1_RESP
ri                NOT_PRESENT_8BIT
bcpara            BC_PARA_BS21_T_300
bcpara2           BC_PARA_NO_SERVICE
progress_desc     PROG_END_TO_END_PLMN
sig               SIGNAL_DIAL_ON
calling_party     CLNG_PARTY_654321
calling_party_sub NOT_USED
called_party      CLED_PARTY_654321
called_party_sub  NOT_USED
redirecting_party REDIR_PARTY_NONE
redirecting_party_sub REDIR_PARTY_SUB_NONE

```

## (3) MMCC\_DATA\_REQ

```

d1                NOT_USED
d2                NOT_USED
sdu
{
component         CC
direction         UPLINK
pd                U_CALL_CONF
ti                TI_MT_1_RESP
repeat            NOT_USED
bearer_cap        NOT_USED
bearer_cap_2      NOT_USED
cc_cause          NOT_USED
}

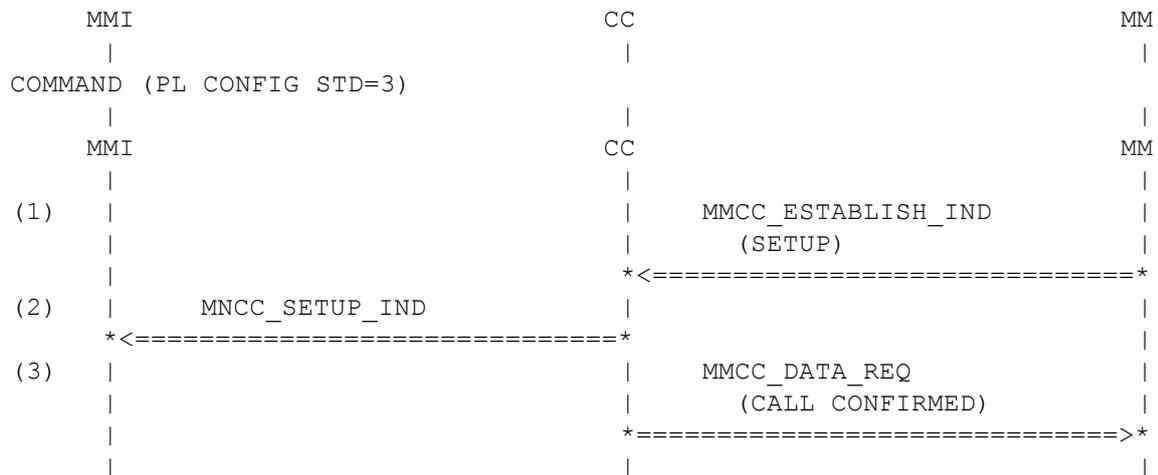
```

History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target

### 3.7.19 CC514: MTC, BS21, 3.1 kHz Audio Transparent 0.3 kBit/s negotiated (I)

**Description:** A mobile terminated call is started for BS21 (300 bit/s) in the PCS 1900 range. The PC version supports this data service for PCS 1900. It is expected that the bearer capability is accepted with negotiation. The incoming bearer capability indicates as connection element Both, transparent preferred. So it is expected, that the mobile selects transparent.

**Preamble:** CC001A



#### Parametrization

Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_BS21_300_BTP
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	d1_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
repeat_2	NOT_USED	
low_layer_comp	NOT_USED	

```

low_layer_comp_2    NOT_USED
repeat_3            NOT_USED
high_layer_comp     NOT_USED
high_layer_comp_2  NOT_USED
user_user          NOT_USED
}

```

## (2) MNCC\_SETUP\_IND

```

ti                TI_MT_1_RESP
ri                NOT_PRESENT_8BIT
bcpara           BC_PARA_BS21_T_300
bcpara2          BC_PARA_NO_SERVICE
progress_desc    PROG_END_TO_END_PLMN
sig              SIGNAL_DIAL_ON
calling_party     CLNG_PARTY_654321
calling_party_sub NOT_USED
called_party     CLED_PARTY_654321
called_party_sub NOT_USED
redirecting_party REDIR_PARTY_NONE
redirecting_party_sub REDIR_PARTY_SUB_NONE

```

## (3) MMCC\_DATA\_REQ

```

d1                NOT_USED
d2                NOT_USED
sdu
{
component        CC
direction        UPLINK
pd               U_CALL_CONF
ti               TI_MT_1_RESP
repeat           NOT_USED
bearer_cap       BC_BS21_T_300
bearer_cap_2     NOT_USED
cc_cause         NOT_USED
}

```

History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target

### 3.7.20 CC515: MTC, BS21, 3.1 kHz Audio Transparent 0.3 kBit/s negotiated (II)

**Description:** A mobile terminated call is started for BS21 (300 bit/s) in the PCS 1900 range. The PC version supports this data service for PCS 1900. It is expected that the bearer capability is accepted with negotiation. The incoming bearer capability indicates as connection element Both, non-transparent preferred. As no explicit configuration of CC via MNCC\_CONFIGURE\_REQ takes place in this case, the default setting to non-transparent leads to a passing compatibility check and the mobile selects non-transparent.

**Preamble:** CC000

	MMI		CC		MM
	COMMAND (PL CONFIG STD=3)				
	MMI		CC		MM
(1)				MMCC_ESTABLISH_IND	
				(SETUP)	
				*<=====*	
(2)		MNCC_SETUP_IND			
		*<=====*			
(3)				MMCC_DATA_REQ	
				(CALL CONFIRMED)	
				*=====*>	

#### Parametrization

Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_BS21_300_BNTP
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED

```

repeat_2          NOT_USED
low_layer_comp    NOT_USED
low_layer_comp_2  NOT_USED
repeat_3          NOT_USED
high_layer_comp   NOT_USED
high_layer_comp_2 NOT_USED
user_user         NOT_USED
}

```

## (2) MNCC\_SETUP\_IND

```

ti                TI_MT_1_RESP
ri                NOT_PRESENT_8BIT
bcpara            BC_PARA_BS21_NT_300_4
bcpara2           BC_PARA_NO_SERVICE
progress_desc     PROG_END_TO_END_PLMN
sig               SIGNAL_DIAL_ON
calling_party     CLNG_PARTY_654321
calling_party_sub NOT_USED
called_party      CLED_PARTY_654321
called_party_sub  NOT_USED
redirecting_party REDIR_PARTY_NONE
redirecting_party_sub REDIR_PARTY_SUB_NONE

```

## (3) MMCC\_DATA\_REQ

```

d1                NOT_USED
d2                NOT_USED
sdu
{
component         CC
direction         UPLINK
pd                U_CALL_CONF
ti                TI_MT_1_RESP
repeat            NOT_USED
bearer_cap        BC_BS21_NT_300_4B
bearer_cap_2      NOT_USED
cc_cause          NOT_USED
}

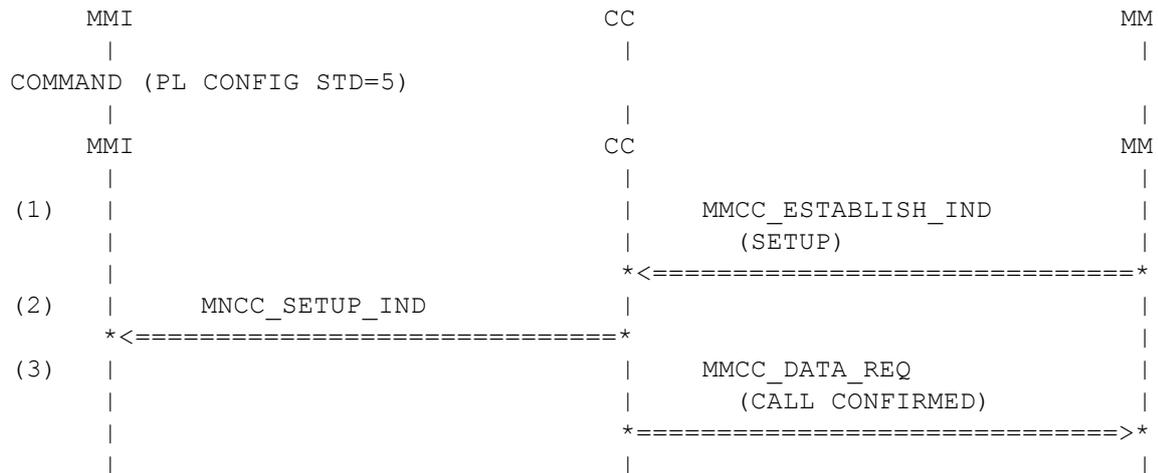
```

History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target

### 3.7.21 CC516: MTC, BS21, 3.1 kHz Audio Transparent 0.3 kBit/s negotiated (III)

**Description:** A mobile terminated call is started for BS21 (300 bit/s) in the Dualband range. The PC version supports this data service for Dualband. It is expected that the bearer capability is accepted with negotiation. The incoming bearer capability indicates as connection element Both, non-transparent preferred. So it is expected, that the mobile selects transparent, because in dualband (STD=5) only transparent services are configured as supported.

**Preamble:** CC001B



**Parametrization**

Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_BS21_300_BNTP
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
repeat_2	NOT_USED	

		low_layer_comp	NOT_USED
		low_layer_comp_2	NOT_USED
		repeat_3	NOT_USED
		high_layer_comp	NOT_USED
		high_layer_comp_2	NOT_USED
		user_user	NOT_USED
		}	
(2)	MNCC_SETUP_IND		
		ti	TI_MT_1_RESP
		ri	NOT_PRESENT_8BIT
		bcpara	BC_PARA_BS21_T_300
		bcpara2	BC_PARA_NO_SERVICE
		progress_desc	PROG_END_TO_END_PLMN
		sig	SIGNAL_DIAL_ON
		calling_party	CLNG_PARTY_654321
		calling_party_sub	NOT_USED
		called_party	CLED_PARTY_654321
		called_party_sub	NOT_USED
		redirecting_party	REDIR_PARTY_NONE
		redirecting_party_sub	REDIR_PARTY_SUB_NONE
(3)	MMCC_DATA_REQ		
		d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	U_CALL_CONF
		ti	TI_MT_1_RESP
		repeat	NOT_USED
		bearer_cap	BC_BS21_T_300
		bearer_cap_2	NOT_USED
		cc_cause	NOT_USED
		}	
History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target

### 3.7.22 CC517: MTC, BS21, 3.1 kHz Audio Transparent 0.3 kBit/s rejected

**Description:** A mobile terminated call is started for BS21 (300 bit/s) in the GSM 900 range. The PC version doesn't support data service for the GSM 900 only variant. It is expected that the call attempt is rejected.

**Preamble:** CC000

```

      MMI                      CC                      MM
      |                        |                      |
COMMAND (PL CONFIG STD=1)
      |                        |                      |
      MMI                      CC                      MM
(1)  |                        | MMCC_ESTABLISH_IND  |
      |                        | (SETUP)            |
      |                        | *<=====          |
(2)  |                        | MMCC_DATA_REQ       |
      |                        | (RELEASE COMPLETE) |
      |                        | *=====>          |
(3)  |                        | MMCC_RELEASE_REQ    |
      |                        | *=====>          |
      |                        |                      |

```

#### Parametrization

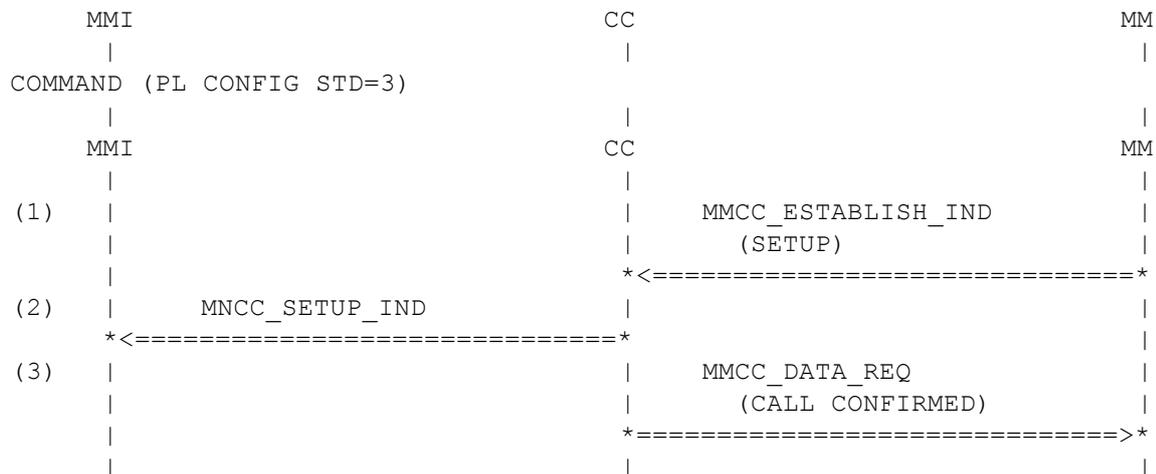
Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_BS21_300_BNTP
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dI_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
repeat_2	NOT_USED	
low_layer_comp	NOT_USED	
low_layer_comp_2	NOT_USED	
repeat_3	NOT_USED	

		high_layer_comp	NOT_USED
		high_layer_comp_2	NOT_USED
		user_user	NOT_USED
		}	
(2)	MMCC_DATA_REQ		
		d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	U_RELEASE_COMP
		ti	TI_MT_1_RESP
		cc_cause	CC_CAUSE_INCOMPAT
		facility	NOT_USED
		user_user	NOT_USED
		ss_version	NOT_USED
		}	
(3)	MMCC_RELEASE_REQ		
		ti	TI_MT_1_RESP
History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2

### 3.7.23 CC518: MTC, BS21, UDI Transparent 0.3 kBit/s accepted

**Description:** A mobile terminated call is started for BS21 transparent (300 bit/s) in the PCS 1900 range. The PC version supports this data service for PCS 1900. It is expected that the bearer capability is accepted without negotiation.

**Preamble:** CC001A



#### Parametrization

Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_BS21_T_300_UDI
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
	repeat_2	NOT_USED
low_layer_comp	NOT_USED	
low_layer_comp_2	NOT_USED	
repeat_3	NOT_USED	

```

high_layer_comp    NOT_USED
high_layer_comp_2  NOT_USED
user_user          NOT_USED
}

```

## (2) MNCC\_SETUP\_IND

```

ti                TI_MT_1_RESP
ri                NOT_PRESENT_8BIT
bcpara            BC_PARA_BS21_T_300_UDI
bcpara2           BC_PARA_NO_SERVICE
progress_desc     PROG_END_TO_END_PLMN
sig               SIGNAL_DIAL_ON
calling_party     CLNG_PARTY_654321
calling_party_sub NOT_USED
called_party     CLED_PARTY_654321
called_party_sub NOT_USED
redirecting_party REDIR_PARTY_NONE
redirecting_party_sub REDIR_PARTY_SUB_NONE

```

## (3) MMCC\_DATA\_REQ

```

d1                NOT_USED
d2                NOT_USED
sdu
{
component        CC
direction        UPLINK
pd               U_CALL_CONF
ti               TI_MT_1_RESP
repeat           NOT_USED
bearer_cap       NOT_USED
bearer_cap_2     NOT_USED
cc_cause         NOT_USED
}

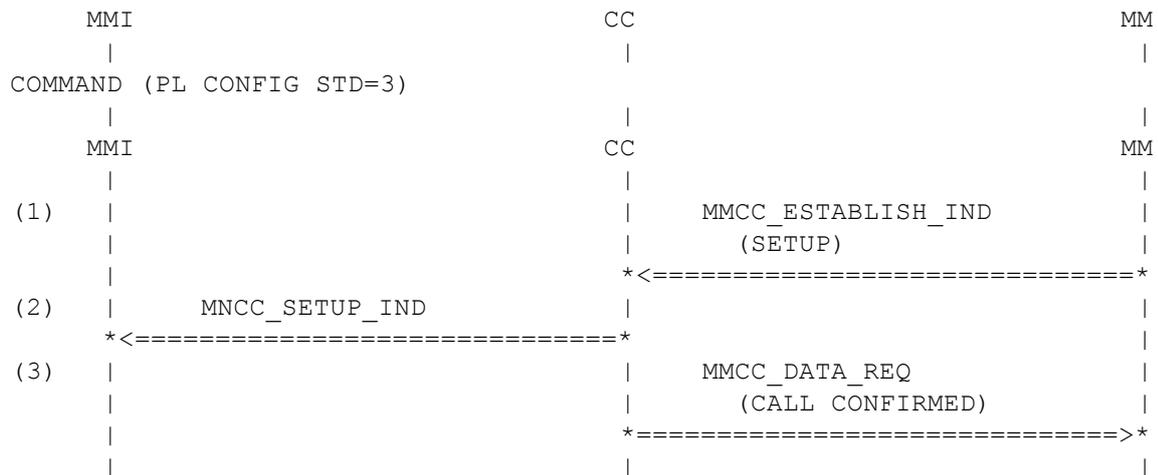
```

History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target

### 3.7.24 CC519: MTC, BS21, UDI Transparent 0.3 kBit/s negotiated (I)

**Description:** A mobile terminated call is started for BS21 (300 bit/s) in the PCS 1900 range. The PC version supports this data service for PCS 1900. It is expected that the bearer capability is accepted with negotiation. The incoming bearer capability indicates as connection element Both, transparent preferred. So it is expected, that the mobile selects transparent.

**Preamble:** CC001B



#### Parametrization

Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_BS21_300_BTP_UDI
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
repeat_2	NOT_USED	
low_layer_comp	NOT_USED	

	low_layer_comp_2	NOT_USED	
	repeat_3	NOT_USED	
	high_layer_comp	NOT_USED	
	high_layer_comp_2	NOT_USED	
	user_user	NOT_USED	
	}		
(2)	MNCC_SETUP_IND		
	ti	TI_MT_1_RESP	
	ri	NOT_PRESENT_8BIT	
	bcpara	BC_PARA_BS21_T_300_UDI	
	bcpara2	BC_PARA_NO_SERVICE	
	progress_desc	PROG_END_TO_END_PLMN	
	sig	SIGNAL_DIAL_ON	
	calling_party	CLNG_PARTY_654321	
	calling_party_sub	NOT_USED	
	called_party	CLED_PARTY_654321	
	called_party_sub	NOT_USED	
	redirecting_party	REDIR_PARTY_NONE	
	redirecting_party_sub	REDIR_PARTY_SUB_NONE	
(3)	MMCC_DATA_REQ		
	d1	NOT_USED	
	d2	NOT_USED	
	sdu		
	{		
	component	CC	
	direction	UPLINK	
	pd	U_CALL_CONF	
	ti	TI_MT_1_RESP	
	repeat	NOT_USED	
	bearer_cap	BC_BS21_T_300_UDI	
	bearer_cap_2	NOT_USED	
	cc_cause	NOT_USED	
	}		
History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target

### 3.7.25 CC520: MTC, BS21, UDI Transparent 0.3 kBit/s negotiated (II)

**Description:** A mobile terminated call is started for BS21 (300 bit/s) in the PCS 1900 range. The PC version supports this data service for PCS 1900. It is expected that the bearer capability is accepted with negotiation. The incoming bearer capability indicates as connection element Both, non-transparent preferred. As no explicit configuration of CC via MNCC\_CONFIGURE\_REQ takes place in this case, the default setting to non-transparent leads to a passing compatibility check and the mobile selects non-transparent.

**Preamble:** CC000

```

      MMI                      CC                      MM
      |                        |                        |
COMMAND (PL CONFIG STD=3)
      |                        |                        |
      MMI                      CC                      MM
(1)  |                        |      MMCC_ESTABLISH_IND  |
      |                        |      (SETUP)             |
      |                        | *<=====                *
(2)  |      MNCC_SETUP_IND    |                        |
      | *<=====                *                        |
(3)  |                        |      MMCC_DATA_REQ       |
      |                        |      (CALL CONFIRMED)    |
      |                        | *=====                *
      |                        |                        |

```

#### Parametrization

Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_BS21_300_BNTP_UDI
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED

		repeat_2	NOT_USED
		low_layer_comp	NOT_USED
		low_layer_comp_2	NOT_USED
		repeat_3	NOT_USED
		high_layer_comp	NOT_USED
		high_layer_comp_2	NOT_USED
		user_user	NOT_USED
		}	
(2)	MNCC_SETUP_IND		
		ti	TI_MT_1_RESP
		ri	NOT_PRESENT_8BIT
		bcpara	BC_PARA_BS21_NT_300_4_UDI
		bcpara2	BC_PARA_NO_SERVICE
		progress_desc	PROG_END_TO_END_PLMN
		sig	SIGNAL_DIAL_ON
		calling_party	CLNG_PARTY_654321
		calling_party_sub	NOT_USED
		called_party	CLED_PARTY_654321
		called_party_sub	NOT_USED
		redirecting_party	REDIR_PARTY_NONE
		redirecting_party_sub	REDIR_PARTY_SUB_NONE
(3)	MMCC_DATA_REQ		
		d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	U_CALL_CONF
		ti	TI_MT_1_RESP
		repeat	NOT_USED
		bearer_cap	BC_BS21_NT_300_4_UDI
		bearer_cap_2	NOT_USED
		cc_cause	NOT_USED
		}	
History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target



		low_layer_comp	NOT_USED
		low_layer_comp_2	NOT_USED
		repeat_3	NOT_USED
		high_layer_comp	NOT_USED
		high_layer_comp_2	NOT_USED
		user_user	NOT_USED
		}	
(2)	MNCC_SETUP_IND		
		ti	TI_MT_1_RESP
		ri	NOT_PRESENT_8BIT
		bcpara	BC_PARA_BS21_T_300_UDI
		bcpara2	BC_PARA_NO_SERVICE
		progress_desc	PROG_END_TO_END_PLMN
		sig	SIGNAL_DIAL_ON
		calling_party	CLNG_PARTY_654321
		calling_party_sub	NOT_USED
		called_party	CLED_PARTY_654321
		called_party_sub	NOT_USED
		redirecting_party	REDIR_PARTY_NONE
		redirecting_party_sub	REDIR_PARTY_SUB_NONE
(3)	MMCC_DATA_REQ		
		d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	U_CALL_CONF
		ti	TI_MT_1_RESP
		repeat	NOT_USED
		bearer_cap	BC_BS21_T_300_UDI
		bearer_cap_2	NOT_USED
		cc_cause	NOT_USED
		}	
History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target

### 3.7.27 CC522: MTC, BS21, UDI 0.3 kBit/s rejected

**Description:** A mobile terminated call is started for BS21 (300 bit/s) in the GSM 900 range. The PC version doesn't support data service for GSM 900. It is expected that the call attempt is rejected.

**Preamble:** CC000

```

      MMI                      CC                      MM
      |                        |                      |
COMMAND (PL CONFIG STD=1)
      |                        |                      |
      MMI                      CC                      MM
(1)  |                        |      MMCC_ESTABLISH_IND  |
      |                        |      (SETUP)            |
      |                        | *<=====*           |
(2)  |                        |      MMCC_DATA_REQ      |
      |                        |      (RELEASE COMPLETE) |
      |                        | *=====>*           |
(3)  |                        |      MMCC_RELEASE_REQ   |
      |                        | *=====>*           |
      |                        |                      |

```

#### Parametrization

Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_BS21_300_BNTP_UDI
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
	repeat_2	NOT_USED
low_layer_comp	NOT_USED	
low_layer_comp_2	NOT_USED	
repeat_3	NOT_USED	

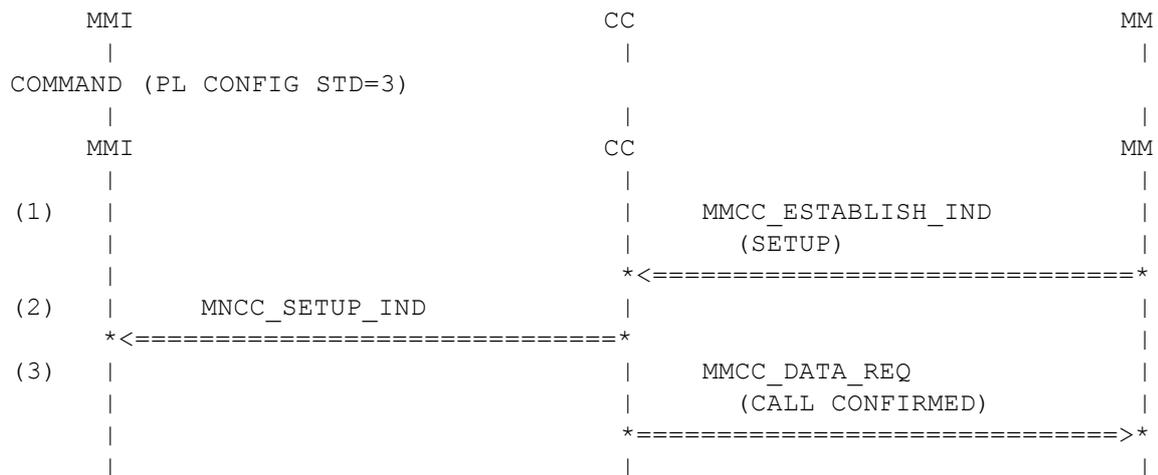
	high_layer_comp	NOT_USED
	high_layer_comp_2	NOT_USED
	user_user	NOT_USED
	}	
(2)	MMCC_DATA_REQ	
	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_RELEASE_COMP
	ti	TI_MT_1_RESP
	cc_cause	CC_CAUSE_INCOMPAT
	facility	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	}	
(3)	MMCC_RELEASE_REQ	
		ti TI_MT_1_RESP

History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2

### 3.7.28 CC523: MTC, BS21, 3.1 kHz Audio Non-Transparent 0.3 kBit/s accepted

**Description:** A mobile terminated call is started for BS21 non-transparent (300 bit/s) in the PCS 1900 range. The PC version supports this data service for PCS 1900. It is expected that the bearer capability is accepted without negotiation. The incoming bearer capability indicates as connection element of non-transparent. As no explicit configuration of CC via MNCC\_CONFIGURE\_REQ takes place in this case, the default setting to non-transparent leads to a passing compatibility check.

**Preamble:** CC000



**Parametrization**

Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_BS21_NT_300_1
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
repeat_2	NOT_USED	

	low_layer_comp	NOT_USED	
	low_layer_comp_2	NOT_USED	
	repeat_3	NOT_USED	
	high_layer_comp	NOT_USED	
	high_layer_comp_2	NOT_USED	
	user_user	NOT_USED	
	}		
(2)	MNCC_SETUP_IND		
	ti	TI_MT_1_RESP	
	ri	NOT_PRESENT_8BIT	
	bcpara	BC_PARA_BS21_NT_300_1	
	bcpara2	BC_PARA_NO_SERVICE	
	progress_desc	PROG_END_TO_END_PLMN	
	sig	SIGNAL_DIAL_ON	
	calling_party	CLNG_PARTY_654321	
	calling_party_sub	NOT_USED	
	called_party	CLED_PARTY_654321	
	called_party_sub	NOT_USED	
	redirecting_party	REDIR_PARTY_NONE	
	redirecting_party_sub	REDIR_PARTY_SUB_NONE	
(3)	MMCC_DATA_REQ		
	d1	NOT_USED	
	d2	NOT_USED	
	sdu		
	{		
	component	CC	
	direction	UPLINK	
	pd	U_CALL_CONF	
	ti	TI_MT_1_RESP	
	repeat	NOT_USED	
	bearer_cap	NOT_USED	
	bearer_cap_2	NOT_USED	
	cc_cause	NOT_USED	
	}		
History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target

### 3.7.29 CC524: MTC, BS21, 3.1 kHz Audio Non-Transparent 0.3 kBit/s negotiated (I)

**Description:** A mobile terminated call is started for BS21 (300 bit/s) in the PCS 1900 range. The PC version supports this data service for PCS 1900. It is expected that the bearer capability is accepted with negotiation. The incoming bearer capability indicates as connection element Both, non-transparent preferred. As no explicit configuration of CC via MNCC\_CONFIGURE\_REQ takes place in this case, the default setting to non-transparent leads to a passing compatibility check and the mobile selects non-transparent.

**Preamble:** CC000

	MMI		CC		MM
	COMMAND (PL CONFIG STD=3)				
	MMI		CC		MM
(1)				MMCC_ESTABLISH_IND	
				(SETUP)	
				*<=====*	
(2)		MNCC_SETUP_IND			
		*<=====*			
(3)				MMCC_DATA_REQ	
				(CALL CONFIRMED)	
				*=====*>	

#### Parametrization

Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_BS21_300_BNTP
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED

		repeat_2	NOT_USED
		low_layer_comp	NOT_USED
		low_layer_comp_2	NOT_USED
		repeat_3	NOT_USED
		high_layer_comp	NOT_USED
		high_layer_comp_2	NOT_USED
		user_user	NOT_USED
		}	
(2)	MNCC_SETUP_IND		
		ti	TI_MT_1_RESP
		ri	NOT_PRESENT_8BIT
		bcpara	BC_PARA_BS21_NT_300_4
		bcpara2	BC_PARA_NO_SERVICE
		progress_desc	PROG_END_TO_END_PLMN
		sig	SIGNAL_DIAL_ON
		calling_party	CLNG_PARTY_654321
		calling_party_sub	NOT_USED
		called_party	CLED_PARTY_654321
		called_party_sub	NOT_USED
		redirecting_party	REDIR_PARTY_NONE
		redirecting_party_sub	REDIR_PARTY_SUB_NONE
(3)	MMCC_DATA_REQ		
		d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	U_CALL_CONF
		ti	TI_MT_1_RESP
		repeat	NOT_USED
		bearer_cap	BC_BS21_NT_300_4B
		bearer_cap_2	NOT_USED
		cc_cause	NOT_USED
		}	
History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target

### 3.7.30 CC525: MTC, BS21, 3.1 kHz Audio Non-Transparent 0.3 kBit/s negotiated (II)

**Description:** A mobile terminated call is started for BS21 (300 bit/s) in the PCS 1900 range. The PC version supports this data service for PCS 1900. It is expected that the bearer capability is accepted with negotiation. The incoming bearer capability indicates as connection element Both, transparent preferred.

**Preamble:** CC001B

```

MMI                                CC                                MM
|                                  |                                  |
COMMAND (PL CONFIG STD=3)         |                                  |
|                                  |                                  |
MMI                                CC                                MM
(1) |                               | MMCC_ESTABLISH_IND         |
    |                               | (SETUP)                   |
    |                               | *<=====*                |
(2) | MNCC_SETUP_IND              |                               |
    |                               | *<=====*                |
(3) |                               | MMCC_DATA_REQ             |
    |                               | (CALL CONFIRMED)         |
    |                               | *=====*>                |
    |                               |                               |

```

#### Parametrization

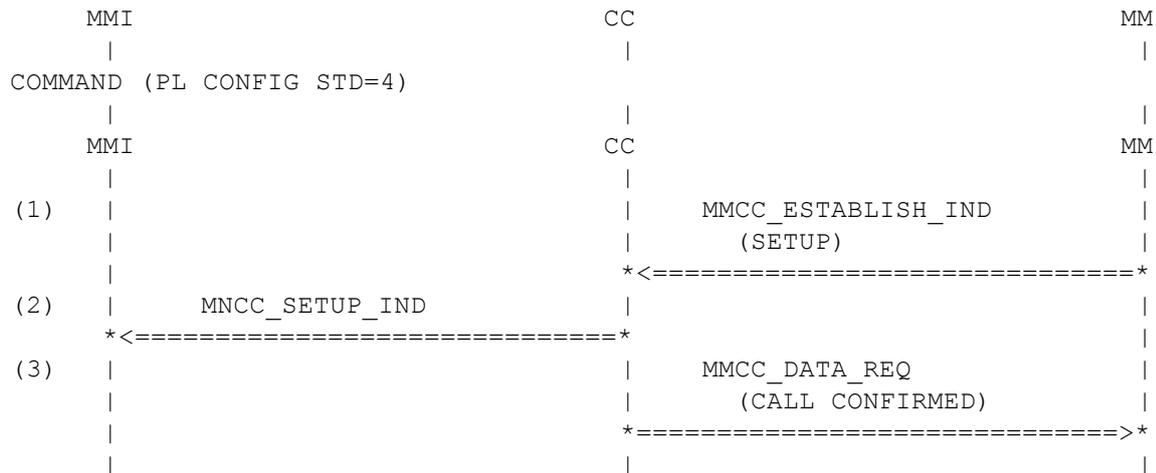
Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_BS21_300_BTP
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
	repeat_2	NOT_USED
low_layer_comp	NOT_USED	
low_layer_comp_2	NOT_USED	

		repeat_3	NOT_USED
		high_layer_comp	NOT_USED
		high_layer_comp_2	NOT_USED
		user_user	NOT_USED
		}	
(2)	MNCC_SETUP_IND		
		ti	TI_MT_1_RESP
		ri	NOT_PRESENT_8BIT
		bcpara	BC_PARA_BS21_T_300
		bcpara2	BC_PARA_NO_SERVICE
		progress_desc	PROG_END_TO_END_PLMN
		sig	SIGNAL_DIAL_ON
		calling_party	CLNG_PARTY_654321
		calling_party_sub	NOT_USED
		called_party	CLED_PARTY_654321
		called_party_sub	NOT_USED
		redirecting_party	REDIR_PARTY_NONE
		redirecting_party_sub	REDIR_PARTY_SUB_NONE
(3)	MMCC_DATA_REQ		
		d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	U_CALL_CONF
		ti	TI_MT_1_RESP
		repeat	NOT_USED
		bearer_cap	BC_BS21_T_300
		bearer_cap_2	NOT_USED
		cc_cause	NOT_USED
		}	
History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target

### 3.7.31 CC526: MTC, BS21, 3.1 kHz Audio Non-Transparent 0.3 kBit/s negotiated (III)

**Description:** A mobile terminated call is started for BS21 (300 bit/s) in the DCS 1800 range. The PC version supports this data service for DCS 1800. It is expected that the bearer capability is accepted with negotiation. The incoming bearer capability indicates as connection element Both, transparent preferred. So it is expected, that the mobile selects non-transparent, because in DCS 1800 only (STD=4) only non-transparent services are configured as supported.

**Preamble:** CC000



**Parametrization**

Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_BS21_300_BTP
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
repeat_2	NOT_USED	

		low_layer_comp	NOT_USED
		low_layer_comp_2	NOT_USED
		repeat_3	NOT_USED
		high_layer_comp	NOT_USED
		high_layer_comp_2	NOT_USED
		user_user	NOT_USED
		}	
(2)	MNCC_SETUP_IND		
		ti	TI_MT_1_RESP
		ri	NOT_PRESENT_8BIT
		bcpara	BC_PARA_BS21_NT_300_5
		bcpara2	BC_PARA_NO_SERVICE
		progress_desc	PROG_END_TO_END_PLMN
		sig	SIGNAL_DIAL_ON
		calling_party	CLNG_PARTY_654321
		calling_party_sub	NOT_USED
		called_party	CLED_PARTY_654321
		called_party_sub	NOT_USED
		redirecting_party	REDIR_PARTY_NONE
		redirecting_party_sub	REDIR_PARTY_SUB_NONE
(3)	MMCC_DATA_REQ		
		d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	U_CALL_CONF
		ti	TI_MT_1_RESP
		repeat	NOT_USED
		bearer_cap	BC_BS21_NT_300_5
		bearer_cap_2	NOT_USED
		cc_cause	NOT_USED
		}	
History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target

### 3.7.32 CC527: MTC, BS21, 3.1 kHz Audio Non-Transparent 0.3 kBit/s rejected

**Description:** A mobile terminated call is started for BS21 (300 bit/s) in the GSM 900 range. The PC version doesn't support data service for GSM 900. It is expected that the call attempt is rejected.

**Preamble:** CC000

```

      MMI                      CC                      MM
      |                        |                        |
COMMAND (PL CONFIG STD=1)
      |                        |                        |
      MMI                      CC                      MM
      |                        |                        |
(1)  |                        |      MMCC_ESTABLISH_IND  |
      |                        |      (SETUP)            |
      |                        | *<=====            *
(2)  |                        |      MMCC_DATA_REQ      |
      |                        |      (RELEASE COMPLETE) |
      |                        | *=====>            *
(3)  |                        |      MMCC_RELEASE_REQ   |
      |                        | *=====>            *
      |                        |                        |

```

#### Parametrization

Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_BS21_NT_300_4
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dI_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
repeat_2	NOT_USED	
low_layer_comp	NOT_USED	
low_layer_comp_2	NOT_USED	
repeat_3	NOT_USED	

		high_layer_comp	NOT_USED
		high_layer_comp_2	NOT_USED
		user_user	NOT_USED
		}	
(2)	MMCC_DATA_REQ		
		d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	U_RELEASE_COMP
		ti	TI_MT_1_RESP
		cc_cause	CC_CAUSE_INCOMPAT
		facility	NOT_USED
		user_user	NOT_USED
		ss_version	NOT_USED
		}	
(3)	MMCC_RELEASE_REQ		
		ti	TI_MT_1_RESP
History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2

### 3.7.33 CC528: MTC, BS21, UDI Non-Transparent 0.3 kBit/s accepted

**Description:** A mobile terminated call is started for BS21 non-transparent (300 bit/s) in the PCS 1900 range. The PC version supports this data service for PCS 1900. It is expected that the bearer capability is accepted without negotiation.

**Preamble:** CC000

```

MMI                                CC                                MM
|                                  |                                |
COMMAND (PL CONFIG STD=3)         |                                |
|                                  |                                |
MMI                                CC                                MM
|                                  |                                |
(1) |                               | MMCC_ESTABLISH_IND         |
    |                               | (SETUP)                   |
    |                               | *<=====                 *
(2) | MNCC_SETUP_IND              |                               |
    |                               | *<=====                 *
(3) |                               | MMCC_DATA_REQ             |
    |                               | (CALL CONFIRMED)          |
    |                               | *=====>                 *
|                                  |                                |

```

#### Parametrization

Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_BS21_NT_300_1_UDI
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
	repeat_2	NOT_USED
low_layer_comp	NOT_USED	
low_layer_comp_2	NOT_USED	
repeat_3	NOT_USED	

```

high_layer_comp    NOT_USED
high_layer_comp_2  NOT_USED
user_user          NOT_USED
}

```

## (2) MNCC\_SETUP\_IND

```

ti                TI_MT_1_RESP
ri                NOT_PRESENT_8BIT
bcpara           BC_PARA_BS21_NT_300_1_UDI
bcpara2          BC_PARA_NO_SERVICE
progress_desc    PROG_END_TO_END_PLMN
sig              SIGNAL_DIAL_ON
calling_party     CLNG_PARTY_654321
calling_party_sub NOT_USED
called_party     CLED_PARTY_654321
called_party_sub NOT_USED
redirecting_party REDIR_PARTY_NONE
redirecting_party_sub REDIR_PARTY_SUB_NONE

```

## (3) MMCC\_DATA\_REQ

```

d1                NOT_USED
d2                NOT_USED
sdu
{
component        CC
direction        UPLINK
pd               U_CALL_CONF
ti               TI_MT_1_RESP
repeat           NOT_USED
bearer_cap       NOT_USED
bearer_cap_2     NOT_USED
cc_cause         NOT_USED
}

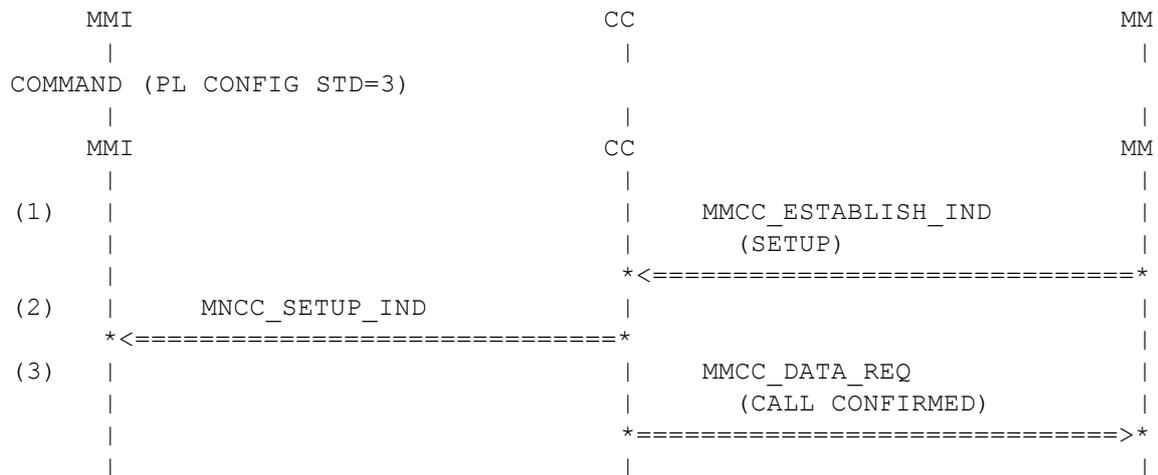
```

History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target

### 3.7.34 CC529: MTC, BS21, UDI Non-Transparent 0.3 kBit/s negotiated (I)

**Description:** A mobile terminated call is started for BS21 (300 bit/s) in the PCS 1900 range. The PC version supports this data service for PCS 1900. It is expected that the bearer capability is accepted with negotiation. The incoming bearer capability indicates as connection element Both, non-transparent preferred. So it is expected, that the mobile selects non-transparent.

**Preamble:** CC000



#### Parametrization

Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_BS21_300_BNTP_UDI
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	d1_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
repeat_2	NOT_USED	
low_layer_comp	NOT_USED	

```

low_layer_comp_2    NOT_USED
repeat_3            NOT_USED
high_layer_comp     NOT_USED
high_layer_comp_2  NOT_USED
user_user          NOT_USED
}

```

## (2) MNCC\_SETUP\_IND

```

ti                TI_MT_1_RESP
ri                NOT_PRESENT_8BIT
bcpara           BC_PARA_BS21_NT_300_4_UDI
bcpara2          BC_PARA_NO_SERVICE
progress_desc    PROG_END_TO_END_PLMN
sig              SIGNAL_DIAL_ON
calling_party     CLNG_PARTY_654321
calling_party_sub NOT_USED
called_party     CLED_PARTY_654321
called_party_sub NOT_USED
redirecting_party REDIR_PARTY_NONE
redirecting_party_sub REDIR_PARTY_SUB_NONE

```

## (3) MMCC\_DATA\_REQ

```

d1                NOT_USED
d2                NOT_USED
sdu
{
component        CC
direction        UPLINK
pd               U_CALL_CONF
ti               TI_MT_1_RESP
repeat           NOT_USED
bearer_cap       BC_BS21_NT_300_4_UDI
bearer_cap_2     NOT_USED
cc_cause         NOT_USED
}

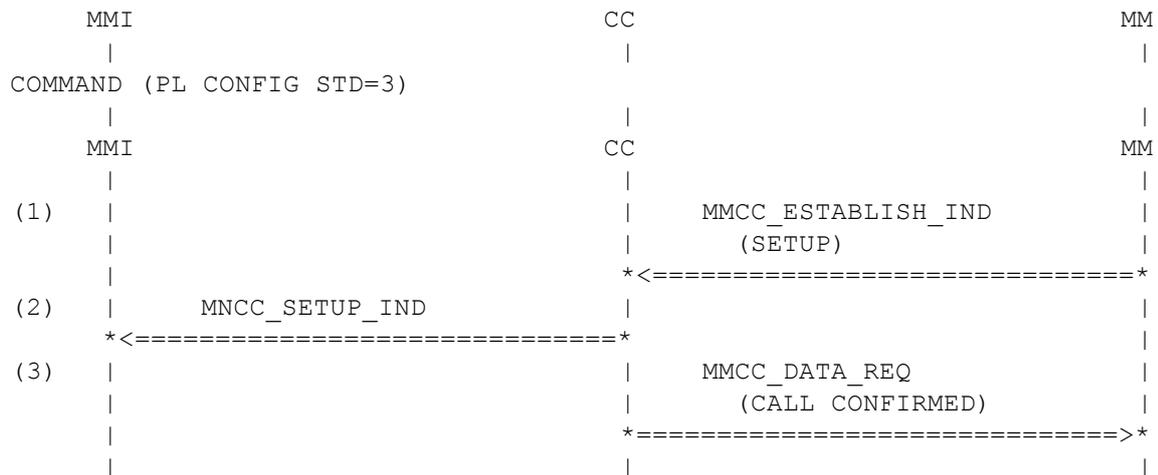
```

History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target

### 3.7.35 CC530: MTC, BS21, UDI Non-Transparent 0.3 kBit/s negotiated (II)

**Description:** A mobile terminated call is started for BS21 (300 bit/s) in the PCS 1900 range. The PC version supports this data service for PCS 1900. It is expected that the bearer capability is accepted with negotiation. The incoming bearer capability indicates as connection element Both, transparent preferred. So it is expected, that the mobile selects transparent.

**Preamble:** CC001A



#### Parametrization

Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_BS21_300_BTP_UDI
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	d1_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
repeat_2	NOT_USED	
low_layer_comp	NOT_USED	

```

low_layer_comp_2    NOT_USED
repeat_3            NOT_USED
high_layer_comp     NOT_USED
high_layer_comp_2  NOT_USED
user_user           NOT_USED
}

```

## (2) MNCC\_SETUP\_IND

```

ti                TI_MT_1_RESP
ri                NOT_PRESENT_8BIT
bcpara            BC_PARA_BS21_T_300_UDI
bcpara2           BC_PARA_NO_SERVICE
progress_desc     PROG_END_TO_END_PLMN
sig               SIGNAL_DIAL_ON
calling_party     CLNG_PARTY_654321
calling_party_sub NOT_USED
called_party      CLED_PARTY_654321
called_party_sub  NOT_USED
redirecting_party REDIR_PARTY_NONE
redirecting_party_sub REDIR_PARTY_SUB_NONE

```

## (3) MMCC\_DATA\_REQ

```

d1                NOT_USED
d2                NOT_USED
sdu
{
component         CC
direction         UPLINK
pd                U_CALL_CONF
ti                TI_MT_1_RESP
repeat            NOT_USED
bearer_cap        BC_BS21_T_300_UDI
bearer_cap_2      NOT_USED
cc_cause          NOT_USED
}

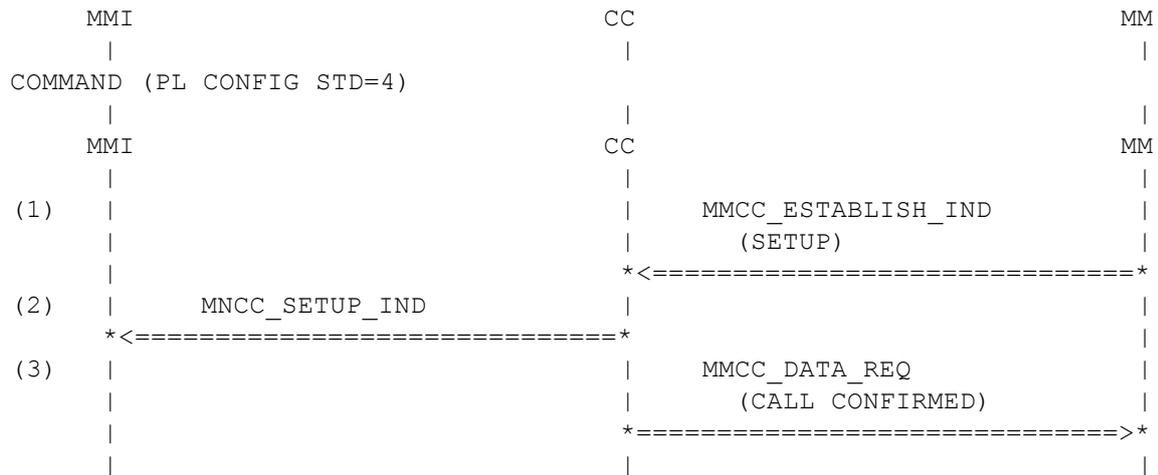
```

History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target

### 3.7.36 CC531: MTC, BS21, UDI Non-Transparent 0.3 kBit/s negotiated (III)

**Description:** A mobile terminated call is started for BS21 (300 bit/s) in the DCS 1800 range. The PC version supports this data service for DCS 1800. It is expected that the bearer capability is accepted with negotiation. The incoming bearer capability indicates as connection element Both, transparent preferred. So it is expected, that the mobile selects non-transparent, because in DCS 1800 only non-transparent services are configured as supported.

**Preamble:** CC000



**Parametrization**

Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_BS21_300_BTP_UDI
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
repeat_2	NOT_USED	

		low_layer_comp	NOT_USED
		low_layer_comp_2	NOT_USED
		repeat_3	NOT_USED
		high_layer_comp	NOT_USED
		high_layer_comp_2	NOT_USED
		user_user	NOT_USED
		}	
(2)	MNCC_SETUP_IND		
		ti	TI_MT_1_RESP
		ri	NOT_PRESENT_8BIT
		bcpara	BC_PARA_BS21_NT_300_5_UDI
		bcpara2	BC_PARA_NO_SERVICE
		progress_desc	PROG_END_TO_END_PLMN
		sig	SIGNAL_DIAL_ON
		calling_party	CLNG_PARTY_654321
		calling_party_sub	NOT_USED
		called_party	CLED_PARTY_654321
		called_party_sub	NOT_USED
		redirecting_party	REDIR_PARTY_NONE
		redirecting_party_sub	REDIR_PARTY_SUB_NONE
(3)	MMCC_DATA_REQ		
		d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	U_CALL_CONF
		ti	TI_MT_1_RESP
		repeat	NOT_USED
		bearer_cap	BC_BS21_NT_300_5_UDI
		bearer_cap_2	NOT_USED
		cc_cause	NOT_USED
		}	
History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target

### 3.7.37 CC532: MTC, BS21, UDI 0.3 kBit/s rejected

**Description:** A mobile terminated call is started for BS21 (300 bit/s) in the GSM 900 range. The PC version doesn't support data service for GSM 900. It is expected that the call attempt is rejected.

**Preamble:** CC000

```

      MMI                      CC                      MM
      |                        |                        |
COMMAND (PL CONFIG STD=1)
      |                        |                        |
      MMI                      CC                      MM
(1)  |                        |      MMCC_ESTABLISH_IND  |
      |                        |      (SETUP)             |
      |                        | *<=====*             |
(2)  |                        |      MMCC_DATA_REQ       |
      |                        |      (RELEASE COMPLETE)  |
      |                        | *=====>*             |
(3)  |                        |      MMCC_RELEASE_REQ    |
      |                        | *=====>*             |
      |                        |                        |

```

#### Parametrization

Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_BS21_300_BTP_UDI
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
repeat_2	NOT_USED	
low_layer_comp	NOT_USED	
low_layer_comp_2	NOT_USED	
repeat_3	NOT_USED	

		high_layer_comp	NOT_USED
		high_layer_comp_2	NOT_USED
		user_user	NOT_USED
		}	
(2)	MMCC_DATA_REQ		
		d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	U_RELEASE_COMP
		ti	TI_MT_1_RESP
		cc_cause	CC_CAUSE_INCOMPAT
		facility	NOT_USED
		user_user	NOT_USED
		ss_version	NOT_USED
		}	
(3)	MMCC_RELEASE_REQ		
		ti	TI_MT_1_RESP
History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2

### 3.7.38 CC533: MOC, BS22, 3.1 kHz Audio, Transparent, 1.2 kBit/s

**Description:** A mobile originated call is started for transparent asynchronous data with 1.2 kBit/s. This is bearer service 22. The data service is supported in PCS 1900 range by the PC version.

**Preamble:** CC000

	MMI		CC		MM
	COMMAND (PL CONFIG STD=3)				
(1)	MNCC_SETUP_REQ				
	*=====>*				
(2)			MMCC_ESTABLISH_REQ		
			*=====>*		
(3)			MMCC_ESTABLISH_CNF		
			*<=====*		
(4)			MMCC_DATA_REQ		
			(SETUP)		
			*=====>*		

#### Parametrization

	<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1)	MMCC_SETUP_REQ		
		ti	TI_MO_5
		prio	PRIO_NORM_CALL
		ri	NOT_PRESENT_8BIT
		bcpara	BC_PARA_BS22_T_1200
		bcpara2	BC_PARA_NO_SERVICE
		called_party	CLED_PARTY_654321
		called_party_sub	CLED_PARTY_SUB_NONE
		clir_sup	NOT_PRESENT_8BIT
		fac_inf	NOT_USED
(2)	MMCC_ESTABLISH_REQ		
		ti	TI_MO_5
		estcs	ESTCS_MOB_ORIG_DATA
(3)	MMCC_ESTABLISH_CNF		
		ti	TI_MO_5
(4)	MMCC_DATA_REQ		
		d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	U_SETUP
		ti	TI_MO_5
		repeat	NOT_USED

bearer_cap	BC_BS22_T_1200
bearer_cap_2	NOT_USED
facility	NOT_USED
calling_subaddr	NOT_USED
ul_called_num	UL_CLED_NUM_654321
called_subaddr	NOT_USED
repeat_2	NOT_USED
low_layer_comp	NOT_USED
low_layer_comp_2	NOT_USED
repeat_3	NOT_USED
high_layer_comp	NOT_USED
high_layer_comp_2	NOT_USED
user_user	NOT_USED
ss_version	NOT_USED
clir_suppr	NOT_USED
clir_invoc	NOT_USED
call_ctrl_cap	CALL_CTRL_CAP_1
}	

History:  support	29-Jul-98	LE	Initial
	27-Jun-00	HM	establish cause not indicating HR
	10-Jul-01	JHU	Converted to TAP2

### 3.7.39 CC534: MOC, BS21, 3.1 kHz Audio, Non-Transparent, 1.2 kBit/s

**Description:** A mobile originated call is started for non-transparent asynchronous data with 1.2 kBit/s. This is bearer service 22. The data service is supported in PCS 1900 range by the PC version. The indicated flow control is inband flow control.

**Preamble:** CC000

MMI	CC	MM
COMMAND (PL CONFIG STD=3)		
(1)   MNCC_SETUP_REQ		
*=====>*		
(2)	MMCC_ESTABLISH_REQ	
	*=====>*	
(3)	MMCC_ESTABLISH_CNF	
	*<=====*	
(4)	MMCC_DATA_REQ	
	(SETUP)	
	*=====>*	

#### Parametrization

Primitive	Parameter	Value
(1) MNCC_SETUP_REQ	ti	TI_MO_5
	prio	PRIO_NORM_CALL
	ri	NOT_PRESENT_8BIT
	bcpara	BC_PARA_BS22_NT_1200
	bcpara2	BC_PARA_NO_SERVICE
	called_party	CLED_PARTY_654321
	called_party_sub	CLED_PARTY_SUB_NONE
	clir_sup	NOT_PRESENT_8BIT
fac_inf	NOT_USED	
(2) MMCC_ESTABLISH_REQ	ti	TI_MO_5
	estcs	ESTCS_MOB_ORIG_DATA
(3) MMCC_ESTABLISH_CNF	ti	TI_MO_5
(4) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_SETUP
	ti	TI_MO_5
	repeat	NOT_USED

bearer_cap	BC_BS22_NT_1200_OUTBAND
bearer_cap_2	NOT_USED
facility	NOT_USED
calling_subaddr	NOT_USED
ul_called_num	UL_CLED_NUM_654321
called_subaddr	NOT_USED
repeat_2	NOT_USED
low_layer_comp	NOT_USED
low_layer_comp_2	NOT_USED
repeat_3	NOT_USED
high_layer_comp	NOT_USED
high_layer_comp_2	NOT_USED
user_user	NOT_USED
ss_version	NOT_USED
clir_suppr	NOT_USED
clir_invoc	NOT_USED
call_ctrl_cap	CALL_CTRL_CAP_1
}	

History:	29-Jul-98	LE	Initial
	27-Jun-00	HM	establish cause not indicating HR
support			
	10-Jul-01	JHU	Converted to TAP2

### 3.7.40 CC535: MTC, BS21, 3.1 kHz Audio Transparent 1.2 kBit/s accepted

**Description:** A mobile terminated call is started for BS22 transparent (1200 bit/s) in the PCS 1900 range. The PC version supports this data service for PCS 1900. It is expected that the bearer capability is accepted without negotiation.

**Preamble:** CC001B

```

      MMI                      CC                      MM
      |                        |                      |
COMMAND (PL CONFIG STD=3)
      |                        |                      |
      MMI                      CC                      MM
(1)  |                        |      MMCC_ESTABLISH_IND  |
      |                        |      (SETUP)             |
      |                        | *<=====                *
(2)  |      MNCC_SETUP_IND    |                        |
      | *<=====                *                        |
(3)  |                        |      MMCC_DATA_REQ      |
      |                        |      (CALL CONFIRMED)   |
      |                        | *=====                *
      |                        |                        |

```

#### Parametrization

Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_BS22_T_1200
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
	repeat_2	NOT_USED
low_layer_comp	NOT_USED	
low_layer_comp_2	NOT_USED	
repeat_3	NOT_USED	

```

high_layer_comp    NOT_USED
high_layer_comp_2  NOT_USED
user_user          NOT_USED
}

```

## (2) MNCC\_SETUP\_IND

```

ti                TI_MT_1_RESP
ri                NOT_PRESENT_8BIT
bcpara           BC_PARA_BS22_T_1200
bcpara2          BC_PARA_NO_SERVICE
progress_desc    PROG_END_TO_END_PLMN
sig              SIGNAL_DIAL_ON
calling_party     CLNG_PARTY_654321
calling_party_sub NOT_USED
called_party     CLED_PARTY_654321
called_party_sub NOT_USED
redirecting_party REDIR_PARTY_NONE
redirecting_party_sub REDIR_PARTY_SUB_NONE

```

## (3) MMCC\_DATA\_REQ

```

d1                NOT_USED
d2                NOT_USED
sdu
{
component         CC
direction         UPLINK
pd                U_CALL_CONF
ti                TI_MT_1_RESP
repeat            NOT_USED
bearer_cap        NOT_USED
bearer_cap_2      NOT_USED
cc_cause          NOT_USED
}

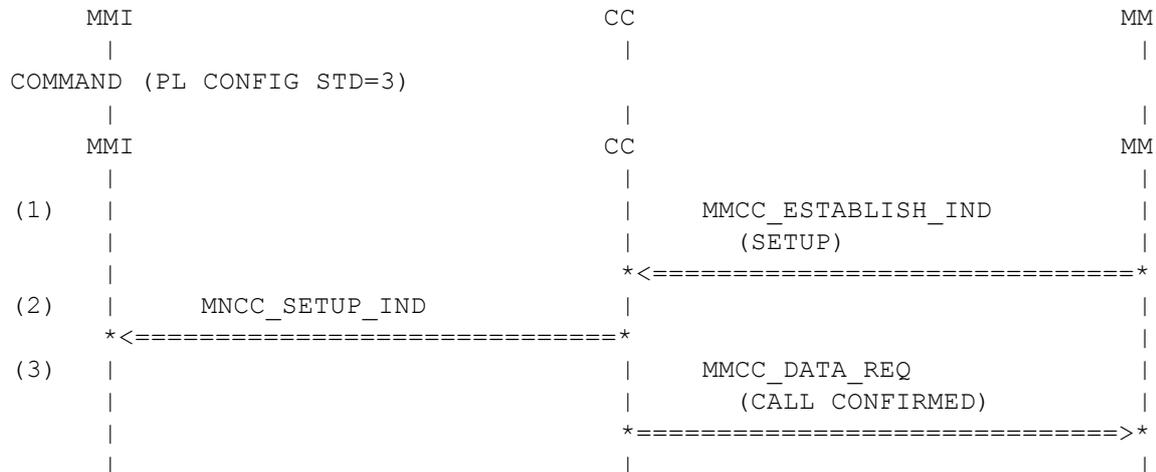
```

History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target

### 3.7.41 CC536: MTC, BS21, UDI Transparent 1.2 kBit/s accepted

**Description:** A mobile terminated call is started for BS22 transparent (1200 bit/s) in the PCS 1900 range. The PC version supports this data service for PCS 1900. It is expected that the bearer capability is accepted without negotiation.

**Preamble:** CC001A



#### Parametrization

Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_BS22_T_1200_UDI
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
	repeat_2	NOT_USED
low_layer_comp	NOT_USED	
low_layer_comp_2	NOT_USED	
repeat_3	NOT_USED	

```

high_layer_comp    NOT_USED
high_layer_comp_2  NOT_USED
user_user          NOT_USED
}

```

## (2) MNCC\_SETUP\_IND

```

ti                TI_MT_1_RESP
ri                NOT_PRESENT_8BIT
bcpara            BC_PARA_BS22_T_1200_UDI
bcpara2           BC_PARA_NO_SERVICE
progress_desc     PROG_END_TO_END_PLMN
sig               SIGNAL_DIAL_ON
calling_party     CLNG_PARTY_654321
calling_party_sub NOT_USED
called_party      CLED_PARTY_654321
called_party_sub  NOT_USED
redirecting_party REDIR_PARTY_NONE
redirecting_party_sub REDIR_PARTY_SUB_NONE

```

## (3) MMCC\_DATA\_REQ

```

d1                NOT_USED
d2                NOT_USED
sdu
{
component        CC
direction         UPLINK
pd                U_CALL_CONF
ti                TI_MT_1_RESP
repeat            NOT_USED
bearer_cap        NOT_USED
bearer_cap_2      NOT_USED
cc_cause          NOT_USED
}

```

History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target

### 3.7.42 CC537: MTC, BS22, 3.1 kHz Audio Non-Transparent 1.2 kBit/s accepted

**Description:** A mobile terminated call is started for BS22 non-transparent (1200 bit/s) in the PCS 1900 range. The PC version supports this data service for PCS 1900. It is expected that the bearer capability is accepted without negotiation. The incoming bearer capability indicates as connection element non-transparent. As no explicit configuration of CC via MNCC\_CONFIGURE\_REQ takes place in this case, the default setting to non-transparent leads to a passing compatibility check.

**Preamble:** CC000

```

      MMI                               CC                               MM
      |                                 |                                 |
COMMAND (PL CONFIG STD=3)             |                                 |
      |                                 |                                 |
      MMI                               CC                               MM
(1)  |                                 | MMCC_ESTABLISH_IND           |
      |                                 | (SETUP)                       |
      |                                 | *<=====*>                    |
(2)  | MNCC_SETUP_IND                 |                                 |
      | *<=====*>                    |                                 |
(3)  |                                 | MMCC_DATA_REQ               |
      |                                 | (CALL CONFIRMED)            |
      |                                 | *=====*>                    |
      |                                 |                                 |

```

#### Parametrization

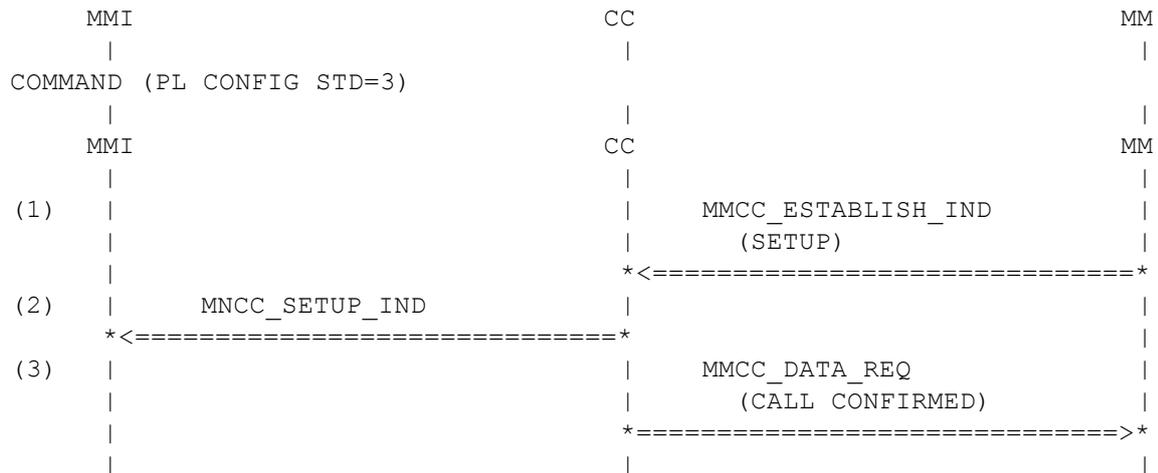
Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_BS22_NT_1200
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
repeat_2	NOT_USED	

		low_layer_comp	NOT_USED
		low_layer_comp_2	NOT_USED
		repeat_3	NOT_USED
		high_layer_comp	NOT_USED
		high_layer_comp_2	NOT_USED
		user_user	NOT_USED
		}	
(2)	MNCC_SETUP_IND		
		ti	TI_MT_1_RESP
		ri	NOT_PRESENT_8BIT
		bcpara	BC_PARA_BS22_NT_1200
		bcpara2	BC_PARA_NO_SERVICE
		progress_desc	PROG_END_TO_END_PLMN
		sig	SIGNAL_DIAL_ON
		calling_party	CLNG_PARTY_654321
		calling_party_sub	NOT_USED
		called_party	CLED_PARTY_654321
		called_party_sub	NOT_USED
		redirecting_party	REDIR_PARTY_NONE
		redirecting_party_sub	REDIR_PARTY_SUB_NONE
(3)	MMCC_DATA_REQ		
		d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	U_CALL_CONF
		ti	TI_MT_1_RESP
		repeat	NOT_USED
		bearer_cap	NOT_USED
		bearer_cap_2	NOT_USED
		cc_cause	NOT_USED
		}	
History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target

### 3.7.43 CC538: MTC, BS22, UDI Non-Transparent 1.2 kBit/s accepted

**Description:** A mobile terminated call is started for BS22 non-transparent (1200 bit/s) in the PCS 1900 range. The PC version supports this data service for PCS 1900. It is expected that the bearer capability is accepted without negotiation. The incoming bearer capability indicates as connection element non-transparent preferred. As no explicit configuration of CC via MNCC\_CONFIGURE\_REQ takes place in this case, the default setting to non-transparent leads to a passing compatibility check.

**Preamble:** CC000



**Parametrization**

Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_BS22_NT_1200_UDI
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
repeat_2	NOT_USED	

		low_layer_comp	NOT_USED
		low_layer_comp_2	NOT_USED
		repeat_3	NOT_USED
		high_layer_comp	NOT_USED
		high_layer_comp_2	NOT_USED
		user_user	NOT_USED
		}	
(2)	MNCC_SETUP_IND		
		ti	TI_MT_1_RESP
		ri	NOT_PRESENT_8BIT
		bcpara	BC_PARA_BS22_NT_1200_UDI
		bcpara2	BC_PARA_NO_SERVICE
		progress_desc	PROG_END_TO_END_PLMN
		sig	SIGNAL_DIAL_ON
		calling_party	CLNG_PARTY_654321
		calling_party_sub	NOT_USED
		called_party	CLED_PARTY_654321
		called_party_sub	NOT_USED
		redirecting_party	REDIR_PARTY_NONE
		redirecting_party_sub	REDIR_PARTY_SUB_NONE
(3)	MMCC_DATA_REQ		
		d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	U_CALL_CONF
		ti	TI_MT_1_RESP
		repeat	NOT_USED
		bearer_cap	NOT_USED
		bearer_cap_2	NOT_USED
		cc_cause	NOT_USED
		}	
History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target

### 3.7.44 CC539: MOC, BS24, 3.1 kHz Audio, Transparent, 2.4 kBit/s

**Description:** A mobile originated call is started for transparent asynchronous data with 2.4 kBit/s. This is bearer service 24. The data service is supported in PCS 1900 range by the PC version.

**Preamble:** CC000

MMI	CC	MM
COMMAND (PL CONFIG STD=3)		
(1)   MNCC_SETUP_REQ		
*=====>*		
(2)	MMCC_ESTABLISH_REQ	
*=====>*		
(3)	MMCC_ESTABLISH_CNF	
*<=====*		
(4)	MMCC_DATA_REQ	
(SETUP)		
*=====>*		

#### Parametrization

Primitive	Parameter	Value
(1) MNCC_SETUP_REQ	ti	TI_MO_5
	prio	PRIO_NORM_CALL
	ri	NOT_PRESENT_8BIT
	bcpara	BC_PARA_BS24_T_2400
	bcpara2	BC_PARA_NO_SERVICE
	called_party	CLED_PARTY_654321
	called_party_sub	CLED_PARTY_SUB_NONE
	clir_sup	NOT_PRESENT_8BIT
	fac_inf	NOT_USED
(2) MMCC_ESTABLISH_REQ	ti	TI_MO_5
	estcs	ESTCS_MOB_ORIG_DATA
(3) MMCC_ESTABLISH_CNF	ti	TI_MO_5
(4) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_SETUP
	ti	TI_MO_5
	repeat	NOT_USED

bearer_cap	BC_BS24_T_2400
bearer_cap_2	NOT_USED
facility	NOT_USED
calling_subaddr	NOT_USED
ul_called_num	UL_CLED_NUM_654321
called_subaddr	NOT_USED
repeat_2	NOT_USED
low_layer_comp	NOT_USED
low_layer_comp_2	NOT_USED
repeat_3	NOT_USED
high_layer_comp	NOT_USED
high_layer_comp_2	NOT_USED
user_user	NOT_USED
ss_version	NOT_USED
clir_suppr	NOT_USED
clir_invoc	NOT_USED
call_ctrl_cap	CALL_CTRL_CAP_1
}	

History:  support	29-Jul-98	LE	Initial
	27-Jun-00	HM	establish cause not indicating HR
	10-Jul-01	JHU	Converted to TAP2

### 3.7.45 CC540: MOC, BS24, 3.1 kHz Audio, Non-Transparent, 2.4 kBit/s

**Description:** A mobile originated call is started for non-transparent asynchronous data with 2.4 kBit/s. This is bearer service 24. The data service is supported in PCS 1900 range by the PC version. The indicated flow control is inband flow control.

**Preamble:** CC000

	MMI		CC		MM
	COMMAND (PL CONFIG STD=3)				
(1)	MNCC_SETUP_REQ				
	*=====>*				
(2)			MMCC_ESTABLISH_REQ		
			*=====>*		
(3)			MMCC_ESTABLISH_CNF		
			*<=====*		
(4)			MMCC_DATA_REQ		
			(SETUP)		
			*=====>*		

#### Parametrization

Primitive	Parameter	Value
(1) MNCC_SETUP_REQ	ti	TI_MO_5
	prio	PRIO_NORM_CALL
	ri	NOT_PRESENT_8BIT
	bcpara	BC_PARA_BS24_NT_2400
	bcpara2	BC_PARA_NO_SERVICE
	called_party	CLED_PARTY_654321
	called_party_sub	CLED_PARTY_SUB_NONE
	clir_sup	NOT_PRESENT_8BIT
fac_inf	NOT_USED	
(2) MMCC_ESTABLISH_REQ	ti	TI_MO_5
	estcs	ESTCS_MOB_ORIG_DATA
(3) MMCC_ESTABLISH_CNF	ti	TI_MO_5
(4) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_SETUP
	ti	TI_MO_5
	repeat	NOT_USED

```

bearer_cap
BC_BS24_NT_2400_V26TER_OUTBAND
bearer_cap_2      NOT_USED
facility           NOT_USED
calling_subaddr   NOT_USED
ul_called_num     UL_CLED_NUM_654321
called_subaddr    NOT_USED
repeat_2          NOT_USED
low_layer_comp    NOT_USED
low_layer_comp_2  NOT_USED
repeat_3          NOT_USED
high_layer_comp   NOT_USED
high_layer_comp_2 NOT_USED
user_user         NOT_USED
ss_version        NOT_USED
clir_suppr        NOT_USED
clir_invoc        NOT_USED
call_ctrl_cap     CALL_CTRL_CAP_1
}

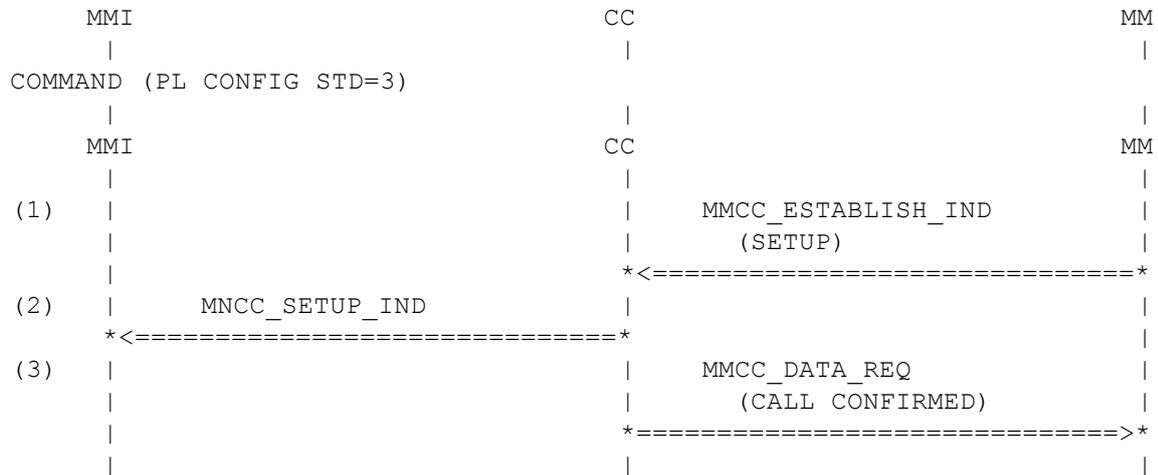
```

History:  support	29-Jul-98	LE	Initial
	27-Jun-00	HM	establish cause not indicating HR
	10-Jul-01	JHU	Converted to TAP2

### 3.7.46 CC541: MTC, BS24, 3.1 kHz Audio Transparent 2.4 kBit/s accepted

**Description:** A mobile terminated call is started for BS24 transparent (2400 bit/s) in the PCS 1900 range. The PC version supports this data service for PCS 1900. It is expected that the bearer capability is accepted without negotiation.

**Preamble:** CC001B



**Parametrization**

Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_BS24_T_2400
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
	repeat_2	NOT_USED
low_layer_comp	NOT_USED	
low_layer_comp_2	NOT_USED	
repeat_3	NOT_USED	

```

high_layer_comp    NOT_USED
high_layer_comp_2  NOT_USED
user_user          NOT_USED
}

```

## (2) MNCC\_SETUP\_IND

```

ti                TI_MT_1_RESP
ri                NOT_PRESENT_8BIT
bcpara            BC_PARA_BS24_T_2400
bcpara2           BC_PARA_NO_SERVICE
progress_desc     PROG_END_TO_END_PLMN
sig               SIGNAL_DIAL_ON
calling_party     CLNG_PARTY_654321
calling_party_sub NOT_USED
called_party      CLED_PARTY_654321
called_party_sub  NOT_USED
redirecting_party REDIR_PARTY_NONE
redirecting_party_sub REDIR_PARTY_SUB_NONE

```

## (3) MMCC\_DATA\_REQ

```

d1                NOT_USED
d2                NOT_USED
sdu
{
component         CC
direction         UPLINK
pd                U_CALL_CONF
ti                TI_MT_1_RESP
repeat            NOT_USED
bearer_cap        NOT_USED
bearer_cap_2      NOT_USED
cc_cause          NOT_USED
}

```

History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target

### 3.7.47 CC542: MTC, BS24, UDI Transparent 2.4 kBit/s accepted

**Description:** A mobile terminated call is started for BS24 transparent (2400 bit/s) in the PCS 1900 range. The PC version supports this data service for PCS 1900. It is expected that the bearer capability is accepted without negotiation.

**Preamble:** CC001A

```

MMI                                CC                                MM
|                                  |                                  |
COMMAND (PL CONFIG STD=3)         |                                  |
|                                  |                                  |
MMI                                CC                                MM
|                                  |                                  |
(1) |                               | MMCC_ESTABLISH_IND         |
    |                               | (SETUP)                     |
    |                               | *<=====                 *
(2) | MNCC_SETUP_IND              |                               |
    |                               | *<=====                 *
(3) |                               | MMCC_DATA_REQ             |
    |                               | (CALL CONFIRMED)          |
    |                               | *=====>                 *
|                                  |                                  |

```

#### Parametrization

Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_BS24_T_2400_UDI
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
	repeat_2	NOT_USED
low_layer_comp	NOT_USED	
low_layer_comp_2	NOT_USED	
repeat_3	NOT_USED	

```

high_layer_comp    NOT_USED
high_layer_comp_2  NOT_USED
user_user          NOT_USED
}

```

## (2) MNCC\_SETUP\_IND

```

ti                TI_MT_1_RESP
ri                NOT_PRESENT_8BIT
bcpara           BC_PARA_BS24_T_2400_UDI
bcpara2          BC_PARA_NO_SERVICE
progress_desc    PROG_END_TO_END_PLMN
sig              SIGNAL_DIAL_ON
calling_party     CLNG_PARTY_654321
calling_party_sub NOT_USED
called_party     CLED_PARTY_654321
called_party_sub NOT_USED
redirecting_party REDIR_PARTY_NONE
redirecting_party_sub REDIR_PARTY_SUB_NONE

```

## (3) MMCC\_DATA\_REQ

```

d1                NOT_USED
d2                NOT_USED
sdu
{
component        CC
direction        UPLINK
pd               U_CALL_CONF
ti               TI_MT_1_RESP
repeat           NOT_USED
bearer_cap       NOT_USED
bearer_cap_2     NOT_USED
cc_cause         NOT_USED
}

```

History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target



```

high_layer_comp    NOT_USED
high_layer_comp_2  NOT_USED
user_user          NOT_USED
}

```

## (2) MNCC\_SETUP\_IND

```

ti                TI_MT_1_RESP
ri                NOT_PRESENT_8BIT
bcpara            BC_PARA_BS24_NT_2400_V22BIS
bcpara2           BC_PARA_NO_SERVICE
progress_desc     PROG_END_TO_END_PLMN
sig               SIGNAL_DIAL_ON
calling_party     CLNG_PARTY_654321
calling_party_sub NOT_USED
called_party      CLED_PARTY_654321
called_party_sub  NOT_USED
redirecting_party REDIR_PARTY_NONE
redirecting_party_sub REDIR_PARTY_SUB_NONE

```

## (3) MMCC\_DATA\_REQ

```

d1                NOT_USED
d2                NOT_USED
sdu
{
component         CC
direction         UPLINK
pd                U_CALL_CONF
ti                TI_MT_1_RESP
repeat            NOT_USED
bearer_cap        NOT_USED
bearer_cap_2      NOT_USED
cc_cause          NOT_USED
}

```

History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target



```

high_layer_comp    NOT_USED
high_layer_comp_2  NOT_USED
user_user          NOT_USED
}

```

## (2) MNCC\_SETUP\_IND

```

ti                TI_MT_1_RESP
ri                NOT_PRESENT_8BIT
bcpara            BC_PARA_BS24_NT_2400_UDI
bcpara2           BC_PARA_NO_SERVICE
progress_desc     PROG_END_TO_END_PLMN
sig               SIGNAL_DIAL_ON
calling_party     CLNG_PARTY_654321
calling_party_sub NOT_USED
called_party      CLED_PARTY_654321
called_party_sub  NOT_USED
redirecting_party REDIR_PARTY_NONE
redirecting_party_sub REDIR_PARTY_SUB_NONE

```

## (3) MMCC\_DATA\_REQ

```

d1                NOT_USED
d2                NOT_USED
sdu
{
component         CC
direction         UPLINK
pd                U_CALL_CONF
ti                TI_MT_1_RESP
repeat            NOT_USED
bearer_cap        NOT_USED
bearer_cap_2      NOT_USED
cc_cause          NOT_USED
}

```

History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target

### 3.7.50 CC545: MOC, BS25, 3.1 kHz Audio, Transparent, 4.8 kBit/s

**Description:** A mobile originated call is started for transparent asynchronous data with 4.8 kBit/s. This is bearer service 25. The data service is supported in PCS 1900 range by the PC version.

**Preamble:** CC000

MMI	CC	MM
COMMAND (PL CONFIG STD=3)		
(1)   MNCC_SETUP_REQ		
*=====>*		
(2)	MMCC_ESTABLISH_REQ	
	*=====>*	
(3)	MMCC_ESTABLISH_CNF	
	*<=====*	
(4)	MMCC_DATA_REQ	
	(SETUP)	
	*=====>*	

#### Parametrization

Primitive	Parameter	Value
(1) MNCC_SETUP_REQ	ti	TI_MO_5
	prio	PRIO_NORM_CALL
	ri	NOT_PRESENT_8BIT
	bcpara	BC_PARA_BS25_T_4800
	bcpara2	BC_PARA_NO_SERVICE
	called_party	CLED_PARTY_654321
	called_party_sub	CLED_PARTY_SUB_NONE
	clir_sup	NOT_PRESENT_8BIT
fac_inf	NOT_USED	
(2) MMCC_ESTABLISH_REQ	ti	TI_MO_5
	estcs	ESTCS_MOB_ORIG_DATA
(3) MMCC_ESTABLISH_CNF	ti	TI_MO_5
(4) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_SETUP
	ti	TI_MO_5
	repeat	NOT_USED

bearer_cap	BC_BS25_T_4800
bearer_cap_2	NOT_USED
facility	NOT_USED
calling_subaddr	NOT_USED
ul_called_num	UL_CLED_NUM_654321
called_subaddr	NOT_USED
repeat_2	NOT_USED
low_layer_comp	NOT_USED
low_layer_comp_2	NOT_USED
repeat_3	NOT_USED
high_layer_comp	NOT_USED
high_layer_comp_2	NOT_USED
user_user	NOT_USED
ss_version	NOT_USED
clir_suppr	NOT_USED
clir_invoc	NOT_USED
call_ctrl_cap	CALL_CTRL_CAP_1
}	

History:	29-Jul-98	LE	Initial
	27-Jun-00	HM	establish cause not indicating HR
support			
	10-Jul-01	JHU	Converted to TAP2

### 3.7.51 CC546: MOC, BS25, 3.1 kHz Audio, Non-Transparent, 4.8 kBit/s

**Description:** A mobile originated call is started for non-transparent asynchronous data with 4.8 kBit/s. This is bearer service 25. The data service is supported in PCS 1900 range by the PC version. The indicated flow control is inband flow control.

**Preamble:** CC000

MMI	CC	MM
COMMAND (PL CONFIG STD=3)		
(1)   MNCC_SETUP_REQ		
*=====>*		
(2)	MMCC_ESTABLISH_REQ	
	*=====>*	
(3)	MMCC_ESTABLISH_CNF	
	*<=====*	
(4)	MMCC_DATA_REQ	
	(SETUP)	
	*=====>*	

#### Parametrization

Primitive	Parameter	Value
(1) MNCC_SETUP_REQ	ti	TI_MO_5
	prio	PRIO_NORM_CALL
	ri	NOT_PRESENT_8BIT
	bcpara	BC_PARA_BS25_NT_4800
	bcpara2	BC_PARA_NO_SERVICE
	called_party	CLED_PARTY_654321
	called_party_sub	CLED_PARTY_SUB_NONE
	clir_sup	NOT_PRESENT_8BIT
fac_inf	NOT_USED	
(2) MMCC_ESTABLISH_REQ	ti	TI_MO_5
	estcs	ESTCS_MOB_ORIG_DATA
(3) MMCC_ESTABLISH_CNF	ti	TI_MO_5
(4) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_SETUP
	ti	TI_MO_5
	repeat	NOT_USED

bearer_cap	BC_BS25_NT_4800_OUTBAND
bearer_cap_2	NOT_USED
facility	NOT_USED
calling_subaddr	NOT_USED
ul_called_num	UL_CLED_NUM_654321
called_subaddr	NOT_USED
repeat_2	NOT_USED
low_layer_comp	NOT_USED
low_layer_comp_2	NOT_USED
repeat_3	NOT_USED
high_layer_comp	NOT_USED
high_layer_comp_2	NOT_USED
user_user	NOT_USED
ss_version	NOT_USED
clir_suppr	NOT_USED
clir_invoc	NOT_USED
call_ctrl_cap	CALL_CTRL_CAP_1
}	

History:	29-Jul-98	LE	Initial
	27-Jun-00	HM	establish cause not indicating HR
support			
	10-Jul-01	JHU	Converted to TAP2



```

high_layer_comp    NOT_USED
high_layer_comp_2  NOT_USED
user_user          NOT_USED
}

```

## (2) MNCC\_SETUP\_IND

```

ti                TI_MT_1_RESP
ri                NOT_PRESENT_8BIT
bcpara           BC_PARA_BS25_T_4800
bcpara2          BC_PARA_NO_SERVICE
progress_desc    PROG_END_TO_END_PLMN
sig              SIGNAL_DIAL_ON
calling_party     CLNG_PARTY_654321
calling_party_sub NOT_USED
called_party     CLED_PARTY_654321
called_party_sub NOT_USED
redirecting_party REDIR_PARTY_NONE
redirecting_party_sub REDIR_PARTY_SUB_NONE

```

## (3) MMCC\_DATA\_REQ

```

d1                NOT_USED
d2                NOT_USED
sdu
{
component         CC
direction         UPLINK
pd                U_CALL_CONF
ti                TI_MT_1_RESP
repeat            NOT_USED
bearer_cap        NOT_USED
bearer_cap_2      NOT_USED
cc_cause          NOT_USED
}

```

History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target

### 3.7.53 CC548: MTC, BS25, UDI Transparent 4.8 kBit/s accepted

**Description:** A mobile terminated call is started for BS25 transparent (4800 bit/s) in the PCS 1900 range. The PC version supports this data service for PCS 1900. It is expected that the bearer capability is accepted without negotiation.

**Preamble:** CC001A

```

MMI                                CC                                MM
|                                  |                                |
COMMAND (PL CONFIG STD=3)         |                                |
|                                  |                                |
MMI                                CC                                MM
(1) |                               | MMCC_ESTABLISH_IND         |
    |                               | (SETUP)                   |
    |                               | *<=====                *
(2) | MNCC_SETUP_IND              |                               |
    |                               | *<=====                *
(3) |                               | MMCC_DATA_REQ             |
    |                               | (CALL CONFIRMED)          |
    |                               | *=====                *
    |                               |                               |

```

#### Parametrization

Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_BS25_T_4800_UDI
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
	repeat_2	NOT_USED
low_layer_comp	NOT_USED	
low_layer_comp_2	NOT_USED	
repeat_3	NOT_USED	

```

high_layer_comp    NOT_USED
high_layer_comp_2  NOT_USED
user_user          NOT_USED
}

```

## (2) MNCC\_SETUP\_IND

```

ti                TI_MT_1_RESP
ri                NOT_PRESENT_8BIT
bcpara           BC_PARA_BS25_T_4800_UDI
bcpara2          BC_PARA_NO_SERVICE
progress_desc    PROG_END_TO_END_PLMN
sig              SIGNAL_DIAL_ON
calling_party     CLNG_PARTY_654321
calling_party_sub NOT_USED
called_party     CLED_PARTY_654321
called_party_sub NOT_USED
redirecting_party REDIR_PARTY_NONE
redirecting_party_sub REDIR_PARTY_SUB_NONE

```

## (3) MMCC\_DATA\_REQ

```

d1                NOT_USED
d2                NOT_USED
sdu
{
component        CC
direction        UPLINK
pd               U_CALL_CONF
ti               TI_MT_1_RESP
repeat          NOT_USED
bearer_cap       NOT_USED
bearer_cap_2     NOT_USED
cc_cause        NOT_USED
}

```

History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target

### 3.7.54 CC549: MTC, BS25, 3.1 kHz Audio Non-Transparent 4.8 kBit/s accepted

**Description:** A mobile terminated call is started for BS25 non-transparent (4800 bit/s) in the PCS 1900 range. The PC version supports this data service for PCS 1900. It is expected that the bearer capability is accepted without negotiation.

**Preamble:** CC000

```

      MMI                      CC                      MM
      |                        |                        |
COMMAND (PL CONFIG STD=3)
      |                        |                        |
      MMI                      CC                      MM
(1)  |                        |      MMCC_ESTABLISH_IND  |
      |                        |      (SETUP)             |
      |                        | *<=====                *
(2)  |      MNCC_SETUP_IND    |                        |
      | *<=====                *                        |
(3)  |                        |      MMCC_DATA_REQ      |
      |                        |      (CALL CONFIRMED)   |
      |                        | *=====                *
      |                        |                        |

```

#### Parametrization

Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_BS25_NT_4800
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
repeat_2	NOT_USED	
low_layer_comp	NOT_USED	
low_layer_comp_2	NOT_USED	
repeat_3	NOT_USED	

```

high_layer_comp    NOT_USED
high_layer_comp_2  NOT_USED
user_user          NOT_USED
}

```

## (2) MNCC\_SETUP\_IND

```

ti                TI_MT_1_RESP
ri                NOT_PRESENT_8BIT
bcpara            BC_PARA_BS25_NT_4800
bcpara2           BC_PARA_NO_SERVICE
progress_desc     PROG_END_TO_END_PLMN
sig               SIGNAL_DIAL_ON
calling_party     CLNG_PARTY_654321
calling_party_sub NOT_USED
called_party      CLED_PARTY_654321
called_party_sub  NOT_USED
redirecting_party REDIR_PARTY_NONE
redirecting_party_sub REDIR_PARTY_SUB_NONE

```

## (3) MMCC\_DATA\_REQ

```

d1                NOT_USED
d2                NOT_USED
sdu
{
component         CC
direction         UPLINK
pd                U_CALL_CONF
ti                TI_MT_1_RESP
repeat            NOT_USED
bearer_cap        NOT_USED
bearer_cap_2      NOT_USED
cc_cause          NOT_USED
}

```

History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target



```

high_layer_comp    NOT_USED
high_layer_comp_2  NOT_USED
user_user          NOT_USED
}

```

## (2) MNCC\_SETUP\_IND

```

ti                TI_MT_1_RESP
ri                NOT_PRESENT_8BIT
bcpara            BC_PARA_BS25_NT_4800_UDI
bcpara2           BC_PARA_NO_SERVICE
progress_desc     PROG_END_TO_END_PLMN
sig               SIGNAL_DIAL_ON
calling_party     CLNG_PARTY_654321
calling_party_sub NOT_USED
called_party      CLED_PARTY_654321
called_party_sub  NOT_USED
redirecting_party REDIR_PARTY_NONE
redirecting_party_sub REDIR_PARTY_SUB_NONE

```

## (3) MMCC\_DATA\_REQ

```

d1                NOT_USED
d2                NOT_USED
sdu
{
component        CC
direction         UPLINK
pd                U_CALL_CONF
ti                TI_MT_1_RESP
repeat            NOT_USED
bearer_cap        NOT_USED
bearer_cap_2      NOT_USED
cc_cause          NOT_USED
}

```

History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target

### 3.7.56 CC551: MOC, BS26, 3.1 kHz Audio, Transparent, 9.6 kBit/s

**Description:** A mobile originated call is started for transparent asynchronous data with 9.6 kBit/s. This is bearer service 26. The data service is supported in PCS 1900 range by the PC version.

**Preamble:** CC000

MMI	CC	MM
COMMAND (PL CONFIG STD=3)		
(1)   MNCC_SETUP_REQ		
*=====>*		
(2)	MMCC_ESTABLISH_REQ	
	*=====>*	
(3)	MMCC_ESTABLISH_CNF	
	*<=====*	
(4)	MMCC_DATA_REQ	
	(SETUP)	
	*=====>*	

#### Parametrization

Primitive	Parameter	Value
(1) MNCC_SETUP_REQ	ti	TI_MO_5
	prio	PRIO_NORM_CALL
	ri	NOT_PRESENT_8BIT
	bcpara	BC_PARA_BS26_T_9600
	bcpara2	BC_PARA_NO_SERVICE
	called_party	CLED_PARTY_654321
	called_party_sub	CLED_PARTY_SUB_NONE
	clir_sup	NOT_PRESENT_8BIT
fac_inf	NOT_USED	
(2) MMCC_ESTABLISH_REQ	ti	TI_MO_5
	estcs	ESTCS_MOB_ORIG_DATA
(3) MMCC_ESTABLISH_CNF	ti	TI_MO_5
(4) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_SETUP
	ti	TI_MO_5
	repeat	NOT_USED

bearer_cap	BC_BS26_T_9600
bearer_cap_2	NOT_USED
facility	NOT_USED
calling_subaddr	NOT_USED
ul_called_num	UL_CLED_NUM_654321
called_subaddr	NOT_USED
repeat_2	NOT_USED
low_layer_comp	NOT_USED
low_layer_comp_2	NOT_USED
repeat_3	NOT_USED
high_layer_comp	NOT_USED
high_layer_comp_2	NOT_USED
user_user	NOT_USED
ss_version	NOT_USED
clir_suppr	NOT_USED
clir_invoc	NOT_USED
call_ctrl_cap	CALL_CTRL_CAP_1
}	

History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2

### 3.7.57 CC552: MOC, BS26, 3.1 kHz Audio, Non-Transparent, 9.6 kBit/s

**Description:** A mobile originated call is started for non-transparent asynchronous data with 9.6 kBit/s. This is bearer service 26. The data service is supported in PCS 1900 range by the PC version. The indicated flow control is inband flow control.

**Preamble:** CC000

	MMI		CC		MM
	COMMAND (PL CONFIG STD=3)				
(1)	MNCC_SETUP_REQ				
	*=====>*				
(2)			MMCC_ESTABLISH_REQ		
			*=====>*		
(3)			MMCC_ESTABLISH_CNF		
			*<=====*		
(4)			MMCC_DATA_REQ		
			(SETUP)		
			*=====>*		

#### Parametrization

Primitive	Parameter	Value
(1) MNCC_SETUP_REQ	ti	TI_MO_5
	prio	PRIO_NORM_CALL
	ri	NOT_PRESENT_8BIT
	bcpara	BC_PARA_BS26_NT_9600
	bcpara2	BC_PARA_NO_SERVICE
	called_party	CLED_PARTY_654321
	called_party_sub	CLED_PARTY_SUB_NONE
	clir_sup	NOT_PRESENT_8BIT
fac_inf	NOT_USED	
(2) MMCC_ESTABLISH_REQ	ti	TI_MO_5
	estcs	ESTCS_MOB_ORIG_DATA
(3) MMCC_ESTABLISH_CNF	ti	TI_MO_5
(4) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_SETUP
	ti	TI_MO_5
	repeat	NOT_USED

bearer_cap	BC_BS26_NT_9600_OUTBAND
bearer_cap_2	NOT_USED
facility	NOT_USED
calling_subaddr	NOT_USED
ul_called_num	UL_CLED_NUM_654321
called_subaddr	NOT_USED
repeat_2	NOT_USED
low_layer_comp	NOT_USED
low_layer_comp_2	NOT_USED
repeat_3	NOT_USED
high_layer_comp	NOT_USED
high_layer_comp_2	NOT_USED
user_user	NOT_USED
ss_version	NOT_USED
clir_suppr	NOT_USED
clir_invoc	NOT_USED
call_ctrl_cap	CALL_CTRL_CAP_1
}	

History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2

### 3.7.58 CC553: MTC, BS26, 3.1 kHz Audio Transparent 9.6 kBit/s accepted

**Description:** A mobile terminated call is started for BS26 transparent (9600 bit/s) in the PCS 1900 range. The PC version supports this data service for PCS 1900. It is expected that the bearer capability is accepted without negotiation.

**Preamble:** CC001B

```

      MMI                      CC                      MM
      |                        |                      |
COMMAND (PL CONFIG STD=3)
      |                        |                      |
      MMI                      CC                      MM
(1)  |                        |      MMCC_ESTABLISH_IND  |
      |                        |      (SETUP)             |
      |                        | *<=====                *
(2)  |      MNCC_SETUP_IND    |                        |
      | *<=====                *                        |
(3)  |                        |      MMCC_DATA_REQ      |
      |                        |      (CALL CONFIRMED)   |
      |                        | *=====                *
      |                        |                        |

```

#### Parametrization

Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_BS26_T_9600
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
	repeat_2	NOT_USED
low_layer_comp	NOT_USED	
low_layer_comp_2	NOT_USED	
repeat_3	NOT_USED	

```

high_layer_comp    NOT_USED
high_layer_comp_2  NOT_USED
user_user          NOT_USED
}

```

## (2) MNCC\_SETUP\_IND

```

ti                TI_MT_1_RESP
ri                NOT_PRESENT_8BIT
bcpara           BC_PARA_BS26_T_9600
bcpara2          BC_PARA_NO_SERVICE
progress_desc    PROG_END_TO_END_PLMN
sig              SIGNAL_DIAL_ON
calling_party     CLNG_PARTY_654321
calling_party_sub NOT_USED
called_party     CLED_PARTY_654321
called_party_sub NOT_USED
redirecting_party REDIR_PARTY_NONE
redirecting_party_sub REDIR_PARTY_SUB_NONE

```

## (3) MMCC\_DATA\_REQ

```

d1                NOT_USED
d2                NOT_USED
sdu
{
component        CC
direction        UPLINK
pd               U_CALL_CONF
ti               TI_MT_1_RESP
repeat          NOT_USED
bearer_cap       NOT_USED
bearer_cap_2     NOT_USED
cc_cause        NOT_USED
}

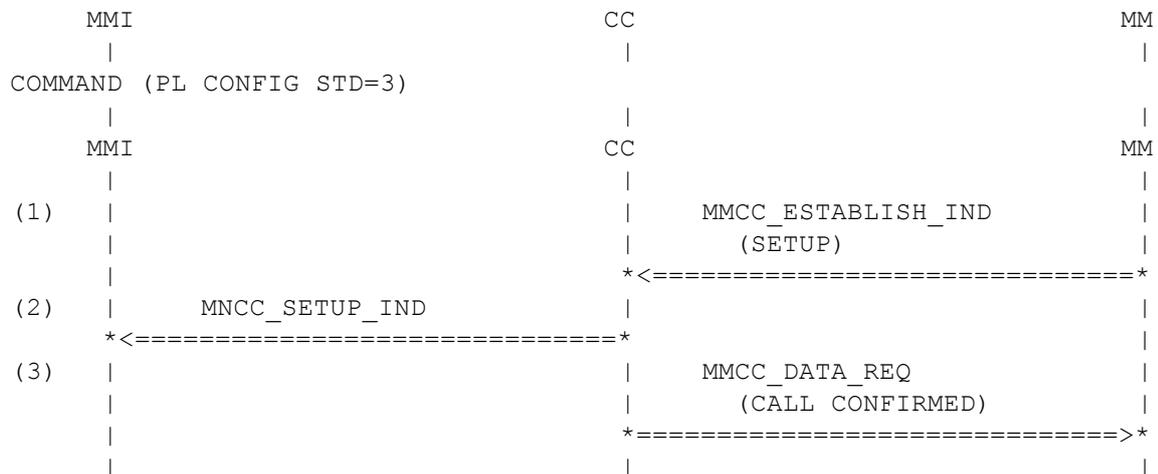
```

History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target

### 3.7.59 CC554: MTC, BS26, UDI Transparent 9.6 kBit/s accepted

**Description:** A mobile terminated call is started for BS26 transparent (9600 bit/s) in the PCS 1900 range. The PC version supports this data service for PCS 1900. It is expected that the bearer capability is accepted without negotiation.

**Preamble:** CC001A



**Parametrization**

Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_BS26_T_9600_UDI
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
	repeat_2	NOT_USED
low_layer_comp	NOT_USED	
low_layer_comp_2	NOT_USED	
repeat_3	NOT_USED	

```

high_layer_comp    NOT_USED
high_layer_comp_2  NOT_USED
user_user          NOT_USED
}

```

## (2) MNCC\_SETUP\_IND

```

ti                TI_MT_1_RESP
ri                NOT_PRESENT_8BIT
bcpara            BC_PARA_BS26_T_9600_UDI
bcpara2           BC_PARA_NO_SERVICE
progress_desc     PROG_END_TO_END_PLMN
sig               SIGNAL_DIAL_ON
calling_party     CLNG_PARTY_654321
calling_party_sub NOT_USED
called_party      CLED_PARTY_654321
called_party_sub  NOT_USED
redirecting_party REDIR_PARTY_NONE
redirecting_party_sub REDIR_PARTY_SUB_NONE

```

## (3) MMCC\_DATA\_REQ

```

d1                NOT_USED
d2                NOT_USED
sdu
{
component        CC
direction         UPLINK
pd                U_CALL_CONF
ti                TI_MT_1_RESP
repeat            NOT_USED
bearer_cap        NOT_USED
bearer_cap_2      NOT_USED
cc_cause          NOT_USED
}

```

History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target

### 3.7.60 CC555: MTC, BS26, 3.1 kHz Audio Non-Transparent 9.6 kBit/s accepted

**Description:** A mobile terminated call is started for BS26 non-transparent (9600 bit/s) in the PCS 1900 range. The PC version supports this data service for PCS 1900. It is expected that the bearer capability is accepted without negotiation.

**Preamble:** CC000

```

      MMI                      CC                      MM
      |                        |                        |
COMMAND (PL CONFIG STD=3)
      |                        |                        |
      MMI                      CC                      MM
(1)  |                        |      MMCC_ESTABLISH_IND  |
      |                        |      (SETUP)             |
      |                        | *<=====                *
(2)  |      MNCC_SETUP_IND    |                        |
      | *<=====                *                        |
(3)  |                        |      MMCC_DATA_REQ      |
      |                        |      (CALL CONFIRMED)   |
      |                        | *=====                *
      |                        |                        |

```

#### Parametrization

Primitive	Parameter	Value
(1) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_BS26_NT_9600
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
repeat_2	NOT_USED	
low_layer_comp	NOT_USED	
low_layer_comp_2	NOT_USED	
repeat_3	NOT_USED	

```

high_layer_comp    NOT_USED
high_layer_comp_2  NOT_USED
user_user          NOT_USED
}

```

## (2) MNCC\_SETUP\_IND

```

ti                TI_MT_1_RESP
ri                NOT_PRESENT_8BIT
bcpara            BC_PARA_BS26_NT_9600
bcpara2           BC_PARA_NO_SERVICE
progress_desc     PROG_END_TO_END_PLMN
sig               SIGNAL_DIAL_ON
calling_party     CLNG_PARTY_654321
calling_party_sub NOT_USED
called_party      CLED_PARTY_654321
called_party_sub  NOT_USED
redirecting_party REDIR_PARTY_NONE
redirecting_party_sub REDIR_PARTY_SUB_NONE

```

## (3) MMCC\_DATA\_REQ

```

d1                NOT_USED
d2                NOT_USED
sdu
{
component         CC
direction         UPLINK
pd                U_CALL_CONF
ti                TI_MT_1_RESP
repeat            NOT_USED
bearer_cap        NOT_USED
bearer_cap_2      NOT_USED
cc_cause          NOT_USED
}

```

History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target



```

high_layer_comp    NOT_USED
high_layer_comp_2  NOT_USED
user_user          NOT_USED
}

```

## (2) MNCC\_SETUP\_IND

```

ti                TI_MT_1_RESP
ri                NOT_PRESENT_8BIT
bcpara            BC_PARA_BS26_NT_9600_UDI
bcpara2           BC_PARA_NO_SERVICE
progress_desc     PROG_END_TO_END_PLMN
sig               SIGNAL_DIAL_ON
calling_party     CLNG_PARTY_654321
calling_party_sub NOT_USED
called_party      CLED_PARTY_654321
called_party_sub  NOT_USED
redirecting_party REDIR_PARTY_NONE
redirecting_party_sub REDIR_PARTY_SUB_NONE

```

## (3) MMCC\_DATA\_REQ

```

d1                NOT_USED
d2                NOT_USED
sdu
{
component        CC
direction         UPLINK
pd                U_CALL_CONF
ti                TI_MT_1_RESP
repeat            NOT_USED
bearer_cap        NOT_USED
bearer_cap_2     NOT_USED
cc_cause          NOT_USED
}

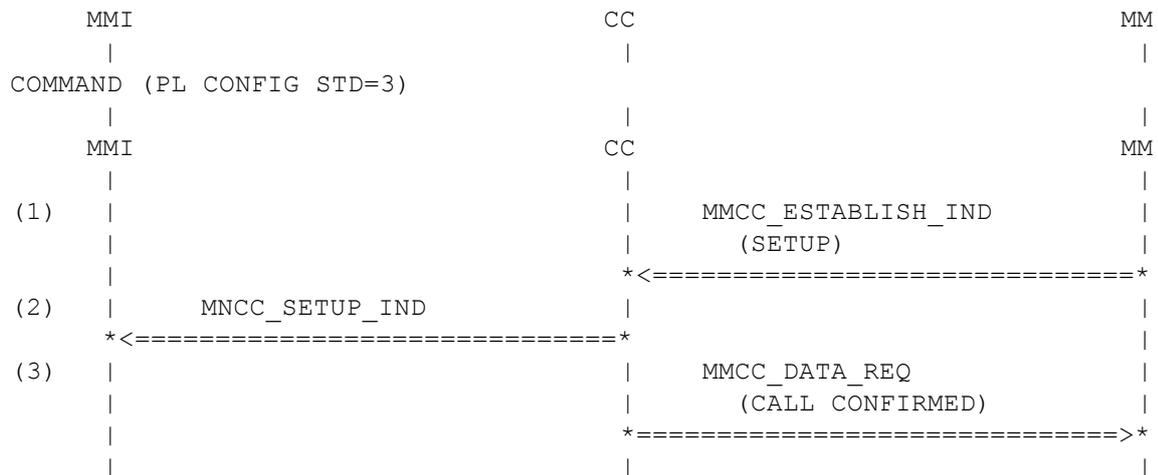
```

History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target

### 3.7.62 CC571: MTC, BS26, 3.1 kHz Audio Non-Transparent 9.6 kBit/s negotiated

**Description:** A mobile terminated call is started for BS26 (9600 bit/s) in the PCS 1900 range. The PC version supports this data service for PCS 1900. It is expected that the bearer capability is accepted with negotiation. The incoming bearer capability indicates as connection element Both, non-transparent preferred. So it is expected, that the mobile selects non-transparent.

**Preamble:** CC000



#### Parametrization

Primitive	Parameter	Value
(4) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_BS26_9600_BNTP
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
repeat_2	NOT_USED	
low_layer_comp	NOT_USED	

		low_layer_comp_2	NOT_USED
		repeat_3	NOT_USED
		high_layer_comp	NOT_USED
		high_layer_comp_2	NOT_USED
		user_user	NOT_USED
		}	
(5)	MNCC_SETUP_IND		
		ti	TI_MT_1_RESP
		ri	NOT_PRESENT_8BIT
		bcpara	BC_PARA_BS26_NT_9600_1
		bcpara2	BC_PARA_NO_SERVICE
		progress_desc	PROG_END_TO_END_PLMN
		sig	SIGNAL_DIAL_ON
		calling_party	CLNG_PARTY_654321
		calling_party_sub	NOT_USED
		called_party	CLED_PARTY_654321
		called_party_sub	NOT_USED
		redirecting_party	REDIR_PARTY_NONE
		redirecting_party_sub	REDIR_PARTY_SUB_NONE
(6)	MMCC_DATA_REQ		
		d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	U_CALL_CONF
		ti	TI_MT_1_RESP
		repeat	NOT_USED
		bearer_cap	BC_BS26_NT_9600_1
		bearer_cap_2	NOT_USED
		cc_cause	NOT_USED
		}	
History:	28-Jan-99	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target

### 3.7.63 CC557: MOC, BS23, 3.1 kHz Audio, Transparent, 1200 / 75 Bit/s

**Description:** A mobile originated call is started for transparent asynchronous data with 1200 / 75 Bit/s. This is bearer service 23. The data service is supported in PCS 1900 range by the PC version.

**Preamble:** CC000

MMI	CC	MM
COMMAND (PL CONFIG STD=3)		
(1)   MNCC_SETUP_REQ		
*=====>*		
(2)	MMCC_ESTABLISH_REQ	
	*=====>*	
(3)	MMCC_ESTABLISH_CNF	
	*<=====*	
(4)	MMCC_DATA_REQ	
	(SETUP)	
	*=====>*	

#### Parametrization

Primitive	Parameter	Value
(1) MNCC_SETUP_REQ	ti	TI_MO_5
	prio	PRIO_NORM_CALL
	ri	NOT_PRESENT_8BIT
	bcpara	BC_PARA_BS23_T
	bcpara2	BC_PARA_NO_SERVICE
	called_party	CLED_PARTY_654321
	called_party_sub	CLED_PARTY_SUB_NONE
	clir_sup	NOT_PRESENT_8BIT
	fac_inf	NOT_USED
(2) MMCC_ESTABLISH_REQ	ti	TI_MO_5
	estcs	ESTCS_MOB_ORIG_DATA
(3) MMCC_ESTABLISH_CNF	ti	TI_MO_5
(4) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_SETUP
	ti	TI_MO_5
	repeat	NOT_USED

bearer_cap	BC_BS23_T
bearer_cap_2	NOT_USED
facility	NOT_USED
calling_subaddr	NOT_USED
ul_called_num	UL_CLED_NUM_654321
called_subaddr	NOT_USED
repeat_2	NOT_USED
low_layer_comp	NOT_USED
low_layer_comp_2	NOT_USED
repeat_3	NOT_USED
high_layer_comp	NOT_USED
high_layer_comp_2	NOT_USED
user_user	NOT_USED
ss_version	NOT_USED
clir_suppr	NOT_USED
clir_invoc	NOT_USED
call_ctrl_cap	CALL_CTRL_CAP_1
}	

History:  support	29-Jul-98	LE	Initial
	27-Jun-00	HM	establish cause not indicating HR
	10-Jul-01	JHU	Converted to TAP2

### 3.7.64 CC558: MOC, BS23, 3.1 kHz Audio, Non-Transparent, 1200 / 75 Bit/s

**Description:** A mobile originated call is started for non-transparent asynchronous data with 1200 / 75 Bit/s. This is bearer service 23. The data service is supported in PCS 1900 range by the PC version. The indicated flow control is inband flow control.

**Preamble:** CC000

MMI	CC	MM
COMMAND (PL CONFIG STD=3)		
(1)   MNCC_SETUP_REQ		
*=====>*		
(2)	MMCC_ESTABLISH_REQ	
	*=====>*	
(3)	MMCC_ESTABLISH_CNF	
	*<=====*	
(4)	MMCC_DATA_REQ	
	(SETUP)	
	*=====>*	

#### Parametrization

Primitive	Parameter	Value
(1) MNCC_SETUP_REQ	ti	TI_MO_5
	prio	PRIO_NORM_CALL
	ri	NOT_PRESENT_8BIT
	bcpara	BC_PARA_BS23_NT
	bcpara2	BC_PARA_NO_SERVICE
	called_party	CLED_PARTY_654321
	called_party_sub	CLED_PARTY_SUB_NONE
	clir_sup	NOT_PRESENT_8BIT
fac_inf	NOT_USED	
(2) MMCC_ESTABLISH_REQ	ti	TI_MO_5
	estcs	ESTCS_MOB_ORIG_DATA
(3) MMCC_ESTABLISH_CNF	ti	TI_MO_5
(4) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_SETUP
	ti	TI_MO_5
	repeat	NOT_USED

bearer_cap	BC_BS23_NT_OUTBAND
bearer_cap_2	NOT_USED
facility	NOT_USED
calling_subaddr	NOT_USED
ul_called_num	UL_CLED_NUM_654321
called_subaddr	NOT_USED
repeat_2	NOT_USED
low_layer_comp	NOT_USED
low_layer_comp_2	NOT_USED
repeat_3	NOT_USED
high_layer_comp	NOT_USED
high_layer_comp_2	NOT_USED
user_user	NOT_USED
ss_version	NOT_USED
clir_suppr	NOT_USED
clir_invoc	NOT_USED
call_ctrl_cap	CALL_CTRL_CAP_1
}	

History:  support	29-Jul-98	LE	Initial
	27-Jun-00	HM	establish cause not indicating HR
	10-Jul-01	JHU	Converted to TAP2

### 3.7.65 CC559: MOC, BS61, Alternate Speech / Transparent Async

**Description:** A mobile originated call is started for alternate speech and transparent asynchronous data service. This is bearer service 61. The data service is supported in PCS 1900 range by the PC version.

A: 300 bit / s  
 B: 1200 bit / s  
 C: 2400 bit / s  
 D: 4800 bit / s  
 E: 9600 bit / s  
 F: 1200 / 75 bit/s

**Preamble:** CC000

**Variants:** <A> ... <F>

MMI	CC	MM
COMMAND (PL CONFIG STD=3)		
(1)   MNCC_SETUP_REQ		
(2)	MMCC_ESTABLISH_REQ	
(3)	MMCC_ESTABLISH_CNF	
(4)	MMCC_DATA_REQ	
	(SETUP)	

#### Parametrization

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) MNCC_SETUP_REQ	ti	TI_MO_5
	prio	PRIO_NORM_CALL
	ri	REPEAT_CIRCULAR
	bcpara	BC_PARA_SPEECH
<A>	bcpara2	BC_PARA_BS21_T_300
<B>	bcpara2	BC_PARA_BS22_T_1200
<C>	bcpara2	BC_PARA_BS24_T_2400
<D>	bcpara2	BC_PARA_BS25_T_4800
<E>	bcpara2	BC_PARA_BS26_T_9600
<F>	bcpara2	BC_PARA_BS23_T
	called_party	CLED_PARTY_654321
	called_party_sub	CLED_PARTY_SUB_NONE
	clir_sup	NOT_PRESENT_8BIT
	fac_inf	NOT_USED
(2) MMCC_ESTABLISH_REQ	ti	TI_MO_5
	estcs	ESTCS_MOB_ORIG_SPCH

(3) MMCC\_ESTABLISH\_CNF

ti TI\_MO\_5

(4) MMCC\_DATA\_REQ

	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_SETUP
	ti	TI_MO_5
	repeat	REPEAT_CIRCULAR
	bearer_cap	BC_SPEECH_FR_HR_EFR
<A>	bearer_cap_2	BC_BS21_T_300
<B>	bearer_cap_2	BC_BS22_T_1200
<C>	bearer_cap_2	BC_BS24_T_2400
<D>	bearer_cap_2	BC_BS25_T_4800
<E>	bearer_cap_2	BC_BS26_T_9600
<F>	bearer_cap_2	BC_BS23_T
	facility	NOT_USED
	calling_subaddr	NOT_USED
	ul_called_num	UL_CLED_NUM_654321
	called_subaddr	NOT_USED
	repeat_2	NOT_USED
	low_layer_comp	NOT_USED
	low_layer_comp_2	NOT_USED
	repeat_3	NOT_USED
	high_layer_comp	NOT_USED
	high_layer_comp_2	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	clir_suppr	NOT_USED
	clir_invoc	NOT_USED
	call_ctrl_cap	CALL_CTRL_CAP_1
	}	

History: 29-Jul-98  
10-Jul-01

LE  
JHU

Initial  
Converted to TAP2

### 3.7.66 CC560: MOC, BS61, Alternate Speech / Non-Transparent Async

**Description:** A mobile originated call is started for alternate speech and non-transparent asynchronous data service. This is bearer service 61. The data service is supported in PCS 1900 range by the PC version.

A: 300 bit / s  
 B: 1200 bit / s  
 C: 2400 bit / s  
 D: 4800 bit / s  
 E: 9600 bit / s  
 F: 1200 / 75 bit/s

**Preamble:** CC000

**Variants:** <A> ... <F>

MMI	CC	MM
COMMAND (PL CONFIG STD=3)		
(1)   MNCC_SETUP_REQ		
(2)	MMCC_ESTABLISH_REQ	
(3)	MMCC_ESTABLISH_CNF	
(4)	MMCC_DATA_REQ	
	(SETUP)	

#### Parametrization

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) MNCC_SETUP_REQ	ti	TI_MO_5
	prio	PRIO_NORM_CALL
	ri	REPEAT_CIRCULAR
	bcpara	BC_PARA_SPEECH
<A>	bcpara2	BC_PARA_BS21_NT_300_1
<B>	bcpara2	BC_PARA_BS22_NT_1200
<C>	bcpara2	BC_PARA_BS24_NT_2400
<D>	bcpara2	BC_PARA_BS25_NT_4800
<E>	bcpara2	BC_PARA_BS26_NT_9600
<F>	bcpara2	BC_PARA_BS23_NT
	called_party	CLED_PARTY_654321
	called_party_sub	CLED_PARTY_SUB_NONE
	clir_sup	NOT_PRESENT_8BIT
	fac_inf	NOT_USED
(2) MMCC_ESTABLISH_REQ	ti	TI_MO_5
	estcs	ESTCS_MOB_ORIG_SPCH

(3) MMCC\_ESTABLISH\_CNF

ti TI\_MO\_5

(4) MMCC\_DATA\_REQ

	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_SETUP
	ti	TI_MO_5
	repeat	REPEAT_CIRCULAR
	bearer_cap	BC_SPEECH_FR_HR_EFR
<A>	bearer_cap_2	BC_BS21_NT_300_1_OUTBAND
<B>	bearer_cap_2	BC_BS22_NT_1200_OUTBAND
<C>	bearer_cap_2	BC_BS24_NT_2400_V26TER_OUTBAND
<D>	bearer_cap_2	BC_BS25_NT_4800_OUTBAND
<E>	bearer_cap_2	BC_BS26_NT_9600_OUTBAND
<F>	bearer_cap_2	BC_BS23_NT_OUTBAND
	facility	NOT_USED
	calling_subaddr	NOT_USED
	ul_called_num	UL_CLED_NUM_654321
	called_subaddr	NOT_USED
	repeat_2	NOT_USED
	low_layer_comp	NOT_USED
	low_layer_comp_2	NOT_USED
	repeat_3	NOT_USED
	high_layer_comp	NOT_USED
	high_layer_comp_2	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	clir_suppr	NOT_USED
	clir_invoc	NOT_USED
	call_ctrl_cap	CALL_CTRL_CAP_1
	}	

History: 29-Jul-98  
10-Jul-01

LE  
JHU

Initial  
Converted to TAP2

### 3.7.67 CC561: MOC, BS81, Sequential Speech / Transparent Async

**Description:** A mobile originated call is started for speech followed by transparent asynchronous data service. This is bearer service 81. The data service is supported in PCS 1900 range by the PC version.

A: 300 bit / s  
 B: 1200 bit / s  
 C: 2400 bit / s  
 D: 4800 bit / s  
 E: 9600 bit / s  
 F: 1200 / 75 bit/s

**Preamble:** CC000

**Variants:** <A> ... <F>

MMI	CC	MM
COMMAND (PL CONFIG STD=3)		
(1)   MNCC_SETUP_REQ		
(2)	MMCC_ESTABLISH_REQ	
(3)	MMCC_ESTABLISH_CNF	
(4)	MMCC_DATA_REQ	
	(SETUP)	

#### Parametrization

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) MNCC_SETUP_REQ	ti	TI_MO_5
	prio	PRIO_NORM_CALL
	ri	REPEAT_SEQUENTIAL
	bcpara	BC_PARA_SPEECH
<A>	bcpara2	BC_PARA_BS21_T_300
<B>	bcpara2	BC_PARA_BS22_T_1200
<C>	bcpara2	BC_PARA_BS24_T_2400
<D>	bcpara2	BC_PARA_BS25_T_4800
<E>	bcpara2	BC_PARA_BS26_T_9600
<F>	bcpara2	BC_PARA_BS23_T
	called_party	CLED_PARTY_654321
	called_party_sub	CLED_PARTY_SUB_NONE
	clir_sup	NOT_PRESENT_8BIT
	fac_inf	NOT_USED
(2) MMCC_ESTABLISH_REQ	ti	TI_MO_5
	estcs	ESTCS_MOB_ORIG_SPCH

(3) MMCC\_ESTABLISH\_CNF

ti TI\_MO\_5

(4) MMCC\_DATA\_REQ

	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_SETUP
	ti	TI_MO_5
	repeat	REPEAT_SEQUENTIAL
	bearer_cap	BC_SPEECH_FR_HR_EFR
<A>	bearer_cap_2	BC_BS21_T_300
<B>	bearer_cap_2	BC_BS22_T_1200
<C>	bearer_cap_2	BC_BS24_T_2400
<D>	bearer_cap_2	BC_BS25_T_4800
<E>	bearer_cap_2	BC_BS26_T_9600
<F>	bearer_cap_2	BC_BS23_T
	facility	NOT_USED
	calling_subaddr	NOT_USED
	ul_called_num	UL_CLED_NUM_654321
	called_subaddr	NOT_USED
	repeat_2	NOT_USED
	low_layer_comp	NOT_USED
	low_layer_comp_2	NOT_USED
	repeat_3	NOT_USED
	high_layer_comp	NOT_USED
	high_layer_comp_2	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	clir_suppr	NOT_USED
	clir_invoc	NOT_USED
	call_ctrl_cap	CALL_CTRL_CAP_1
	}	

History: 29-Jul-98  
10-Jul-01

LE  
JHU

Initial  
Converted to TAP2

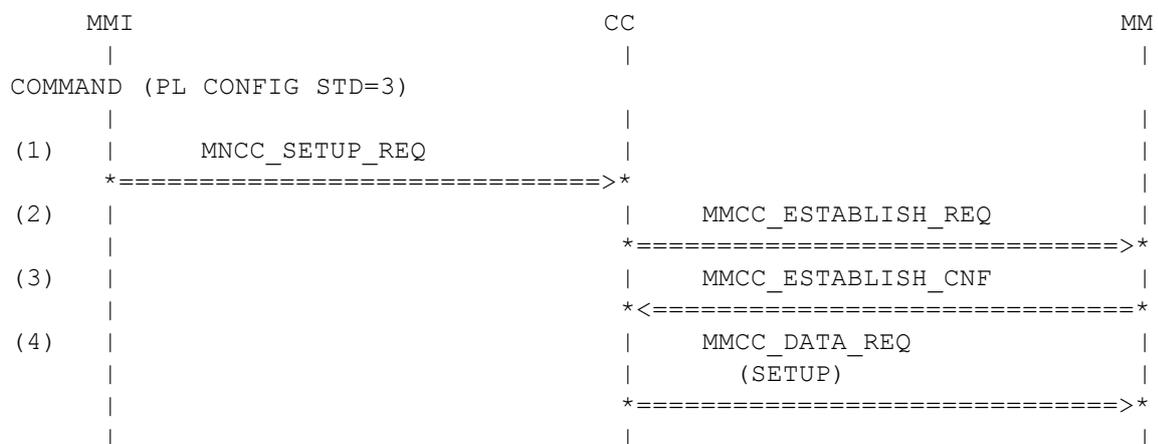
### 3.7.68 CC562: MOC, BS81, Sequential Speech / Non-Transparent Async

**Description:** A mobile originated call is started for speech followed by non-transparent asynchronous data service. This is bearer service 81. The data service is supported in PCS 1900 range by the PC version.

- A: 300 bit / s
- B: 1200 bit / s
- C: 2400 bit / s
- D: 4800 bit / s
- E: 9600 bit / s
- F: 1200 / 75 bit/s

**Preamble:** CC000

**Variants:** <A> ... <F>



**Parametrization**

Primitive	Parameter	Value
(1) MNCC_SETUP_REQ	ti	TI_MO_5
	prio	PRIO_NORM_CALL
	ri	REPEAT_SEQUENTIAL
	bcpara	BC_PARA_SPEECH
<A>	bcpara2	BC_PARA_BS21_NT_300_1
<B>	bcpara2	BC_PARA_BS22_NT_1200
<C>	bcpara2	BC_PARA_BS24_NT_2400
<D>	bcpara2	BC_PARA_BS25_NT_4800
<E>	bcpara2	BC_PARA_BS26_NT_9600
<F>	bcpara2	BC_PARA_BS23_NT
	called_party	CLED_PARTY_654321
	called_party_sub	CLED_PARTY_SUB_NONE
	clir_sup	NOT_PRESENT_8BIT
	fac_inf	NOT_USED
(2) MMCC_ESTABLISH_REQ	ti	TI_MO_5
	estcs	ESTCS_MOB_ORIG_SPCH

(3) MMCC\_ESTABLISH\_CNF

ti TI\_MO\_5

(4) MMCC\_DATA\_REQ

	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_SETUP
	ti	TI_MO_5
	repeat	REPEAT_SEQUENTIAL
	bearer_cap	BC_SPEECH_FR_HR_EFR
<A>	bearer_cap_2	BC_BS21_NT_300_1_OUTBAND
<B>	bearer_cap_2	BC_BS22_NT_1200_OUTBAND
<C>	bearer_cap_2	BC_BS24_NT_2400_V26TER_OUTBAND
<D>	bearer_cap_2	BC_BS25_NT_4800_OUTBAND
<E>	bearer_cap_2	BC_BS26_NT_9600_OUTBAND
<F>	bearer_cap_2	BC_BS23_NT_OUTBAND
	facility	NOT_USED
	calling_subaddr	NOT_USED
	ul_called_num	UL_CLED_NUM_654321
	called_subaddr	NOT_USED
	repeat_2	NOT_USED
	low_layer_comp	NOT_USED
	low_layer_comp_2	NOT_USED
	repeat_3	NOT_USED
	high_layer_comp	NOT_USED
	high_layer_comp_2	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	clir_suppr	NOT_USED
	clir_invoc	NOT_USED
	call_ctrl_cap	CALL_CTRL_CAP_1
	}	

History: 29-Jul-98  
10-Jul-01

LE  
JHU

Initial  
Converted to TAP2

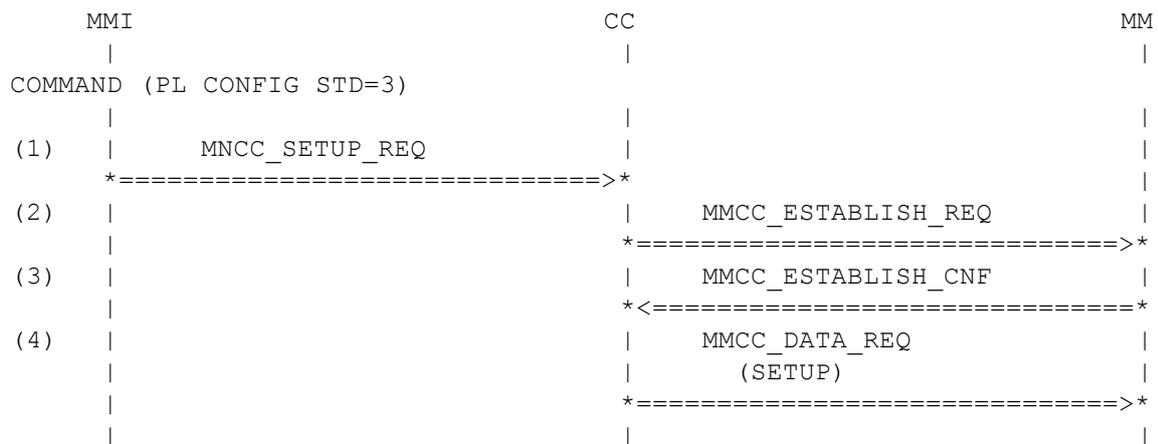
### 3.7.69 CC563: MOC, TS61, Alternate Speech / Transparent Fax

**Description:** A mobile originated call is started for alternate speech and transparent fax. This is tele service 61. The data service is supported in PCS 1900 range by the PC version.

- A: 2400 bit / s
- B: 4800 bit / s
- C: 9600 bit / s

**Preamble:** CC000

**Variants:** <A>..<C>



**Parametrization**

Primitive	Parameter	Value	
(1) MNCC_SETUP_REQ	ti	TI_MO_5	
	prio	PRIO_NORM_CALL	
	ri	REPEAT_CIRCULAR	
	bcpara	BC_PARA_SPEECH	
	<A>	bcpara2	BC_PARA_FAX_T_2400
	<B>	bcpara2	BC_PARA_FAX_T_4800
	<C>	bcpara2	BC_PARA_FAX_T_9600
		called_party	CLED_PARTY_654321
		called_party_sub	CLED_PARTY_SUB_NONE
		clir_sup	NOT_PRESENT_8BIT
	fac_inf	NOT_USED	
(2) MMCC_ESTABLISH_REQ	ti	TI_MO_5	
	estcs	ESTCS_MOB_ORIG_SPCH	
(3) MMCC_ESTABLISH_CNF	ti	TI_MO_5	
(4) MMCC_DATA_REQ	d1	NOT_USED	
	d2	NOT_USED	

	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_SETUP
	ti	TI_MO_5
	repeat	REPEAT_CIRCULAR
<A>	bearer_cap	BC_SPEECH_FR_HR_EFR
<B>	bearer_cap_2	BC_FAX_T_2400
<C>	bearer_cap_2	BC_FAX_T_4800
	bearer_cap_2	BC_FAX_T_9600
	facility	NOT_USED
	calling_subaddr	NOT_USED
	ul_called_num	UL_CLED_NUM_654321
	called_subaddr	NOT_USED
	repeat_2	NOT_USED
	low_layer_comp	NOT_USED
	low_layer_comp_2	NOT_USED
	repeat_3	NOT_USED
	high_layer_comp	NOT_USED
	high_layer_comp_2	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	clir_suppr	NOT_USED
	clir_invoc	NOT_USED
	call_ctrl_cap	CALL_CTRL_CAP_1
	}	

History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2

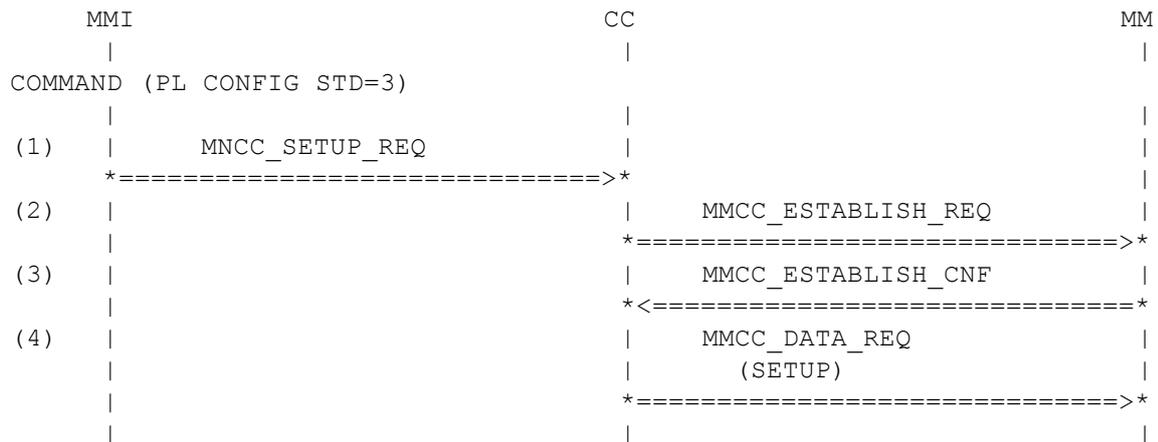
### 3.7.70 CC564: MOC, TS62, Automatic Fax

**Description:** A mobile originated call is started for automatic fax. This is tele service 62. The data service is supported in PCS 1900 range by the PC version.

- A: 2400 bit / s
- B: 4800 bit / s
- C: 9600 bit / s

**Preamble:** CC000

**Variants:** <A> ... <C>



**Parametrization**

Primitive	Parameter	Value	
(1) MNCC_SETUP_REQ	ti	TI_MO_5	
	prio	PRIO_NORM_CALL	
	ri	NOT_PRESENT_8BIT	
	<A>	bcpara	BC_PARA_FAX_T_2400
	<B>	bcpara	BC_PARA_FAX_T_4800
	<C>	bcpara	BC_PARA_FAX_T_9600
		bcpara2	BC_PARA_NO_SERVICE
		called_party	CLED_PARTY_654321
		called_party_sub	CLED_PARTY_SUB_NONE
		clir_sup	NOT_PRESENT_8BIT
	fac_inf	NOT_USED	
(2) MMCC_ESTABLISH_REQ	ti	TI_MO_5	
	estcs	ESTCS_MOB_ORIG_DATA	
(3) MMCC_ESTABLISH_CNF	ti	TI_MO_5	
(4) MMCC_DATA_REQ	d1	NOT_USED	
	d2	NOT_USED	
	sdu		

	{		
	component	CC	
	direction	UPLINK	
	pd	U_SETUP	
	ti	TI_MO_5	
	repeat	NOT_USED	
<A>	bearer_cap	BC_FAX_T_2400	
<B>	bearer_cap	BC_FAX_T_4800	
<C>	bearer_cap	BC_FAX_T_9600	
	bearer_cap_2	NOT_USED	
	facility	NOT_USED	
	calling_subaddr	NOT_USED	
	ul_called_num	UL_CLED_NUM_654321	
	called_subaddr	NOT_USED	
	repeat_2	NOT_USED	
	low_layer_comp	NOT_USED	
	low_layer_comp_2	NOT_USED	
	repeat_3	NOT_USED	
	high_layer_comp	NOT_USED	
	high_layer_comp_2	NOT_USED	
	user_user	NOT_USED	
	ss_version	NOT_USED	
	clir_suppr	NOT_USED	
	clir_invoc	NOT_USED	
	call_ctrl_cap	CALL_CTRL_CAP_1	
	}		

History:	29-Jul-98	LE	Initial
	27-Jun-00	HM	establish cause not indicating HR
support	10-Jul-01	JHU	Converted to TAP2

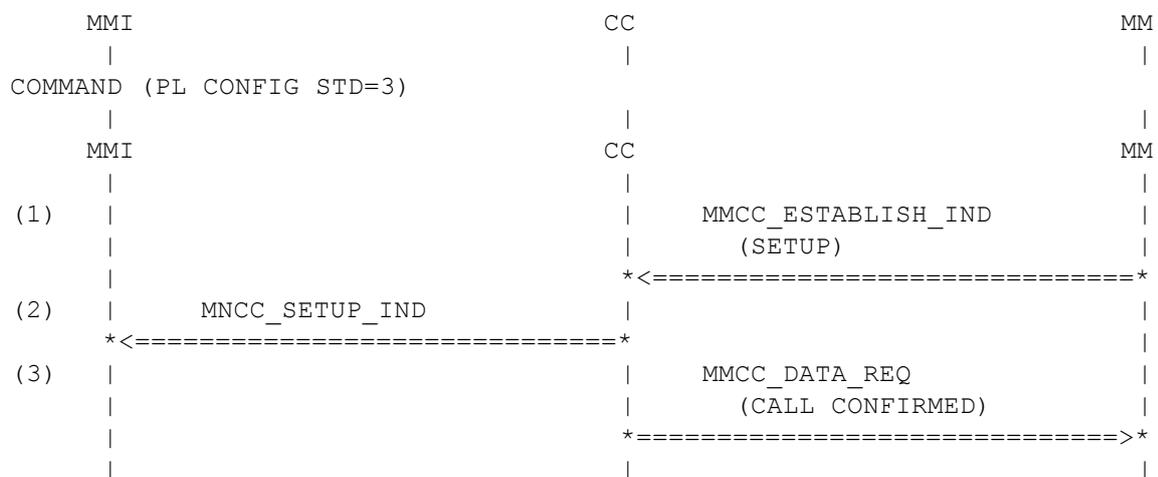
### 3.7.71 CC565: MTC, BS61, Alternate Speech / Transparent Asynchronous

**Description:** A mobile terminated call is started for alternate speech and transparent asynchronous data service. This is bearer service 61. The data service is supported in PCS 1900 range by the PC version.

- A: 300 bit / s
- B: 1200 bit / s
- C: 2400 bit / s
- D: 4800 bit / s
- E: 9600 bit / s

**Preamble:** CC001B

**Variants:** <A> ... <E>



**Parametrization**

Primitive	Parameter	Value	
(1) MMCC_ESTABLISH_IND	d1	NOT_USED	
	d2	NOT_USED	
	sdu	{	
	component	CC	
	direction	DOWNLINK	
	pd	D_SETUP	
	ti	TI_MT_1	
	repeat	REPEAT_CIRCULAR	
	bearer_cap	BC_SPEECH_FR	
	<A>	bearer_cap_2	BC_BS21_T_300
	<B>	bearer_cap_2	BC_BS22_T_1200
	<C>	bearer_cap_2	BC_BS24_T_2400
	<D>	bearer_cap_2	BC_BS25_T_4800
	<E>	bearer_cap_2	BC_BS26_T_9600
	facility	NOT_USED	
	progress	PROG_1	
	signal	SIGNAL_DIAL_ON	

calling_num	CLNG_NUM_654321
calling_subaddr	NOT_USED
dl_called_num	DL_CLED_NUM_654321
called_subaddr	NOT_USED
redirecting_num	NOT_USED
redirecting_subaddr	NOT_USED
repeat_2	NOT_USED
low_layer_comp	NOT_USED
low_layer_comp_2	NOT_USED
repeat_3	NOT_USED
high_layer_comp	NOT_USED
high_layer_comp_2	NOT_USED
user_user	NOT_USED
}	

## (2) MNCC\_SETUP\_IND

	ti	TI_MT_1_RESP
	ri	REPEAT_CIRCULAR
	bcpara	BC_PARA_SPEECH
<A>	bcpara2	BC_PARA_BS21_T_300
<B>	bcpara2	BC_PARA_BS22_T_1200
<C>	bcpara2	BC_PARA_BS24_T_2400
<D>	bcpara2	BC_PARA_BS25_T_4800
<E>	bcpara2	BC_PARA_BS26_T_9600
	progress_desc	PROG_END_TO_END_PLMN
	sig	SIGNAL_DIAL_ON
	calling_party	CLNG_PARTY_654321
	calling_party_sub	NOT_USED
	called_party	CLED_PARTY_654321
	called_party_sub	NOT_USED
	redirecting_party	REDIR_PARTY_NONE
	redirecting_party_sub	REDIR_PARTY_SUB_NONE

## (3) MMCC\_DATA\_REQ

d1	NOT_USED
d2	NOT_USED
sdu	
{	
component	CC
direction	UPLINK
pd	U_CALL_CONF
ti	TI_MT_1_RESP
repeat	NOT_USED
bearer_cap	NOT_USED
bearer_cap_2	NOT_USED
cc_cause	NOT_USED
}	

History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target



progress	PROG_1
signal	SIGNAL_DIAL_ON
calling_num	CLNG_NUM_654321
calling_subaddr	NOT_USED
dl_called_num	DL_CLED_NUM_654321
called_subaddr	NOT_USED
redirecting_num	NOT_USED
redirecting_subaddr	NOT_USED
repeat_2	NOT_USED
low_layer_comp	NOT_USED
low_layer_comp_2	NOT_USED
repeat_3	NOT_USED
high_layer_comp	NOT_USED
high_layer_comp_2	NOT_USED
user_user	NOT_USED

## (2) MNCC\_SETUP\_IND

	ti	TI_MT_1_RESP
	ri	REPEAT_CIRCULAR
	bcpara	BC_PARA_SPEECH
<A>	bcpara2	BC_PARA_BS21_NT_300_1
<B>	bcpara2	BC_PARA_BS22_NT_1200
<C>	bcpara2	BC_PARA_BS24_NT_2400
<D>	bcpara2	BC_PARA_BS25_NT_4800
<E>	bcpara2	BC_PARA_BS26_NT_9600
	progress_desc	PROG_END_TO_END_PLMN
	sig	SIGNAL_DIAL_ON
	calling_party	CLNG_PARTY_654321
	calling_party_sub	NOT_USED
	called_party	CLED_PARTY_654321
	called_party_sub	NOT_USED
	redirecting_party	REDIR_PARTY_NONE
	redirecting_party_sub	REDIR_PARTY_SUB_NONE

## (3) MMCC\_DATA\_REQ

	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_CALL_CONF
	ti	TI_MT_1_RESP
	repeat	NOT_USED
	bearer_cap	NOT_USED
	bearer_cap_2	NOT_USED
	cc_cause	NOT_USED
	}	

History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target



calling_num	CLNG_NUM_654321
calling_subaddr	NOT_USED
dl_called_num	DL_CLED_NUM_654321
called_subaddr	NOT_USED
redirecting_num	NOT_USED
redirecting_subaddr	NOT_USED
repeat_2	NOT_USED
low_layer_comp	NOT_USED
low_layer_comp_2	NOT_USED
repeat_3	NOT_USED
high_layer_comp	NOT_USED
high_layer_comp_2	NOT_USED
user_user	NOT_USED
}	

## (2) MNCC\_SETUP\_IND

	ti	TI_MT_1_RESP
	ri	REPEAT_SEQUENTIAL
	bcpara	BC_PARA_SPEECH
<A>	bcpara2	BC_PARA_BS21_T_300
<B>	bcpara2	BC_PARA_BS22_T_1200
<C>	bcpara2	BC_PARA_BS24_T_2400
<D>	bcpara2	BC_PARA_BS25_T_4800
<E>	bcpara2	BC_PARA_BS26_T_9600
	progress_desc	PROG_END_TO_END_PLMN
	sig	SIGNAL_DIAL_ON
	calling_party	CLNG_PARTY_654321
	calling_party_sub	NOT_USED
	called_party	CLED_PARTY_654321
	called_party_sub	NOT_USED
	redirecting_party	REDIR_PARTY_NONE
	redirecting_party_sub	REDIR_PARTY_SUB_NONE

## (3) MMCC\_DATA\_REQ

d1	NOT_USED
d2	NOT_USED
sdu	
{	
component	CC
direction	UPLINK
pd	U_CALL_CONF
ti	TI_MT_1_RESP
repeat	NOT_USED
bearer_cap	NOT_USED
bearer_cap_2	NOT_USED
cc_cause	NOT_USED
}	

History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target



calling_num	CLNG_NUM_654321
calling_subaddr	NOT_USED
dl_called_num	DL_CLED_NUM_654321
called_subaddr	NOT_USED
redirecting_num	NOT_USED
redirecting_subaddr	NOT_USED
repeat_2	NOT_USED
low_layer_comp	NOT_USED
low_layer_comp_2	NOT_USED
repeat_3	NOT_USED
high_layer_comp	NOT_USED
high_layer_comp_2	NOT_USED
user_user	NOT_USED
}	

## (2) MNCC\_SETUP\_IND

	ti	TI_MT_1_RESP
	ri	REPEAT_SEQUENTIAL
	bcpara	BC_PARA_SPEECH
<A>	bcpara2	BC_PARA_BS21_NT_300_1
<B>	bcpara2	BC_PARA_BS22_NT_1200
<C>	bcpara2	BC_PARA_BS24_NT_2400
<D>	bcpara2	BC_PARA_BS25_NT_4800
<E>	bcpara2	BC_PARA_BS26_NT_9600
	progress_desc	PROG_END_TO_END_PLMN
	sig	SIGNAL_DIAL_ON
	calling_party	CLNG_PARTY_654321
	calling_party_sub	NOT_USED
	called_party	CLED_PARTY_654321
	called_party_sub	NOT_USED
	redirecting_party	REDIR_PARTY_NONE
	redirecting_party_sub	REDIR_PARTY_SUB_NONE

## (3) MMCC\_DATA\_REQ

d1	NOT_USED
d2	NOT_USED
sdu	
{	
component	CC
direction	UPLINK
pd	U_CALL_CONF
ti	TI_MT_1_RESP
repeat	NOT_USED
bearer_cap	NOT_USED
bearer_cap_2	NOT_USED
cc_cause	NOT_USED
}	

History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target

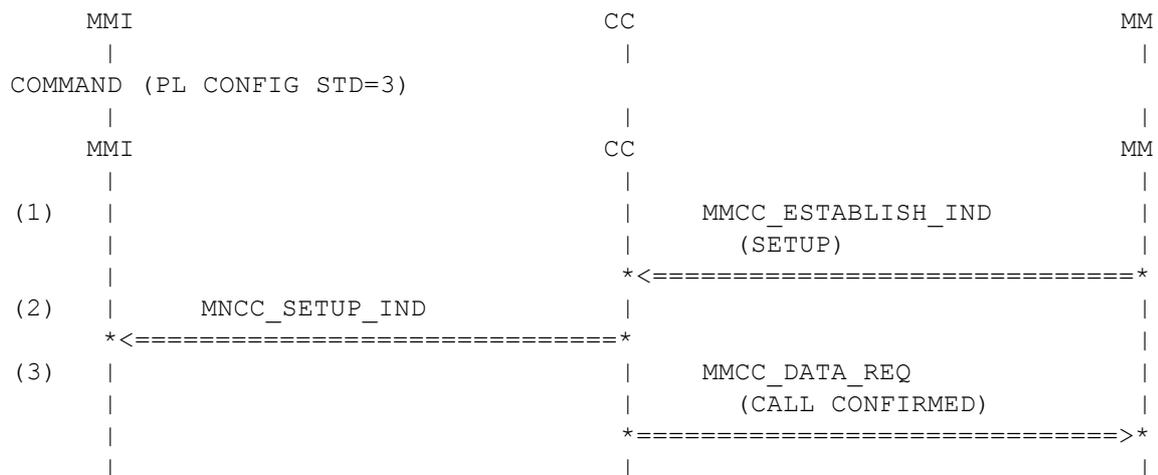
### 3.7.75 CC569: MTC, TS61, Alternate Speech / transparent Fax

**Description:** A mobile terminated call is started for sequential speech and transparent fax service. This is tele service 61. The data service is supported in PCS 1900 range by the PC version.

- A: 2400 bit / s
- B: 4800 bit / s
- C: 9600 bit / s

**Preamble:** CC000

**Variants:** <A> ... <C>



**Parametrization**

Primitive	Parameter	Value	
(1) MMCC_ESTABLISH_IND	d1	NOT_USED	
	d2	NOT_USED	
	sdu		
	{		
	component	CC	
	direction	DOWNLINK	
	pd	D_SETUP	
	ti	TI_MT_1	
	repeat	REPEAT_CIRCULAR	
	bearer_cap	BC_SPEECH_FR	
	<A>	bearer_cap_2	BC_FAX_T_2400
	<B>	bearer_cap_2	BC_FAX_T_4800
	<C>	bearer_cap_2	BC_FAX_T_9600
		facility	NOT_USED
		progress	PROG_1
		signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321	
	calling_subaddr	NOT_USED	
	dI_called_num	DL_CLED_NUM_654321	
	called_subaddr	NOT_USED	

		redirecting_num	NOT_USED
		redirecting_subaddr	NOT_USED
		repeat_2	NOT_USED
		low_layer_comp	NOT_USED
		low_layer_comp_2	NOT_USED
		repeat_3	NOT_USED
		high_layer_comp	NOT_USED
		high_layer_comp_2	NOT_USED
		user_user	NOT_USED
		}	
(2)	MNCC_SETUP_IND		
		ti	TI_MT_1_RESP
		ri	REPEAT_CIRCULAR
		bcpara	BC_PARA_SPEECH
<A>		bcpara2	BC_PARA_FAX_T_2400
<B>		bcpara2	BC_PARA_FAX_T_4800
<C>		bcpara2	BC_PARA_FAX_T_9600
		progress_desc	PROG_END_TO_END_PLMN
		sig	SIGNAL_DIAL_ON
		calling_party	CLNG_PARTY_654321
		calling_party_sub	NOT_USED
		called_party	CLED_PARTY_654321
		called_party_sub	NOT_USED
		redirecting_party	REDIR_PARTY_NONE
		redirecting_party_sub	REDIR_PARTY_SUB_NONE
(3)	MMCC_DATA_REQ		
		d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	U_CALL_CONF
		ti	TI_MT_1_RESP
		repeat	NOT_USED
		bearer_cap	NOT_USED
		bearer_cap_2	NOT_USED
		cc_cause	NOT_USED
		}	
History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target

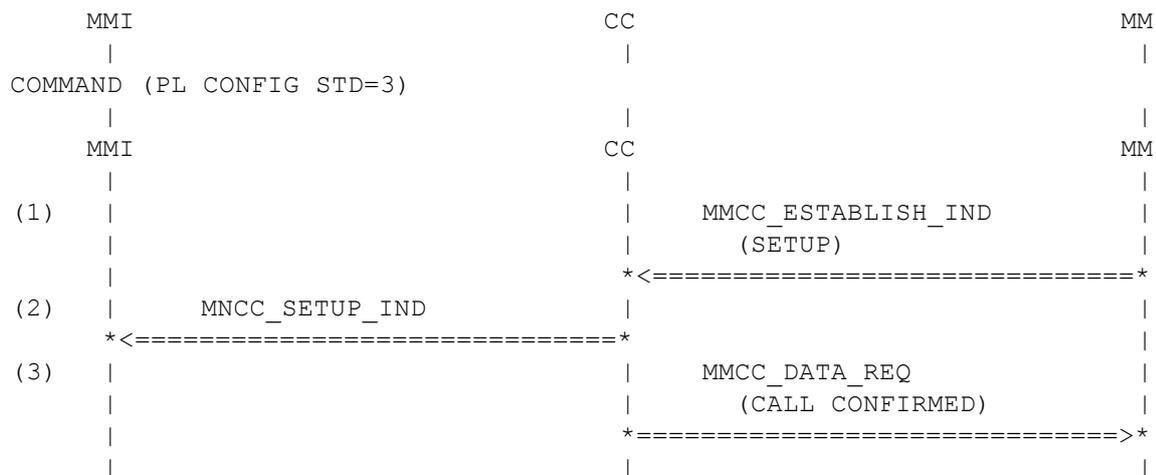
### 3.7.76 CC570: MTC, TS62, Automatic transparent Fax

**Description:** A mobile terminated call is started for automatic transparent fax service. This is tele service 62. The data service is supported in PCS 1900 range by the PC version.

- A: 2400 bit / s
- B: 4800 bit / s
- C: 9600 bit / s

**Preamble:** CC000

**Variants:** <A> ... <C>



**Parametrization**

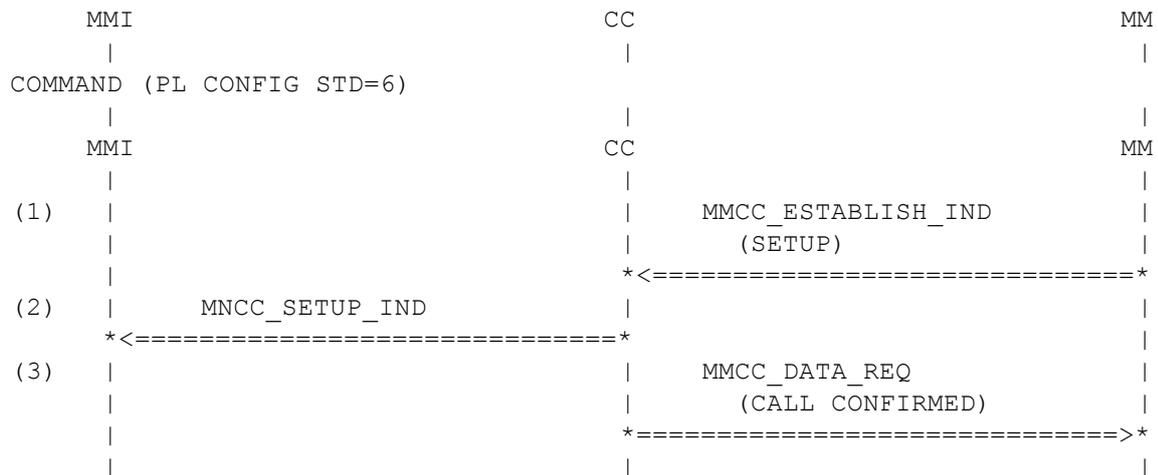
Primitive	Parameter	Value	
(1) MMCC_ESTABLISH_IND	d1	NOT_USED	
	d2	NOT_USED	
	sdu		
	{		
	component	CC	
	direction	DOWNLINK	
	pd	D_SETUP	
	ti	TI_MT_1	
	repeat	NOT_USED	
	<A>	bearer_cap	BC_FAX_T_2400
	<B>	bearer_cap	BC_FAX_T_4800
	<C>	bearer_cap	BC_FAX_T_9600
		bearer_cap_2	NOT_USED
		facility	NOT_USED
	progress	PROG_1	
	signal	SIGNAL_DIAL_ON	
	calling_num	CLNG_NUM_654321	
	calling_subaddr	NOT_USED	
	dI_called_num	DL_CLED_NUM_654321	
	called_subaddr	NOT_USED	

		redirecting_num	NOT_USED
		redirecting_subaddr	NOT_USED
		repeat_2	NOT_USED
		low_layer_comp	NOT_USED
		low_layer_comp_2	NOT_USED
		repeat_3	NOT_USED
		high_layer_comp	NOT_USED
		high_layer_comp_2	NOT_USED
		user_user	NOT_USED
		}	
(2)	MNCC_SETUP_IND		
		ti	TI_MT_1_RESP
		ri	NOT_USED
<A>		bcpara	BC_PARA_FAX_T_2400
<B>		bcpara	BC_PARA_FAX_T_4800
<C>		bcpara	BC_PARA_FAX_T_9600
		bcpara2	BC_PARA_NO_SERVICE
		progress_desc	PROG_END_TO_END_PLMN
		sig	SIGNAL_DIAL_ON
		calling_party	CLNG_PARTY_654321
		calling_party_sub	NOT_USED
		called_party	CLED_PARTY_654321
		called_party_sub	NOT_USED
		redirecting_party	REDIR_PARTY_NONE
		redirecting_party_sub	REDIR_PARTY_SUB_NONE
(3)	MMCC_DATA_REQ		
		d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	U_CALL_CONF
		ti	TI_MT_1_RESP
		repeat	NOT_USED
		bearer_cap	NOT_USED
		bearer_cap_2	NOT_USED
		cc_cause	NOT_USED
		}	
History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target

### 3.7.77 CC572: MTC, Non-Transparent 14.4 kBit/s accepted

**Description:** A mobile terminated call is started for non-transparent (14400 bit/s) in the Dualband Extended range. The PC version supports this in this frequency range. It is expected that the bearer capability is accepted without negotiation. As no explicit configuration of CC via MNCC\_CONFIGURE\_REQ takes place in this case, the default setting to non-transparent leads to a passing compatibility check.

**Preamble:** CC000



#### Parametrization

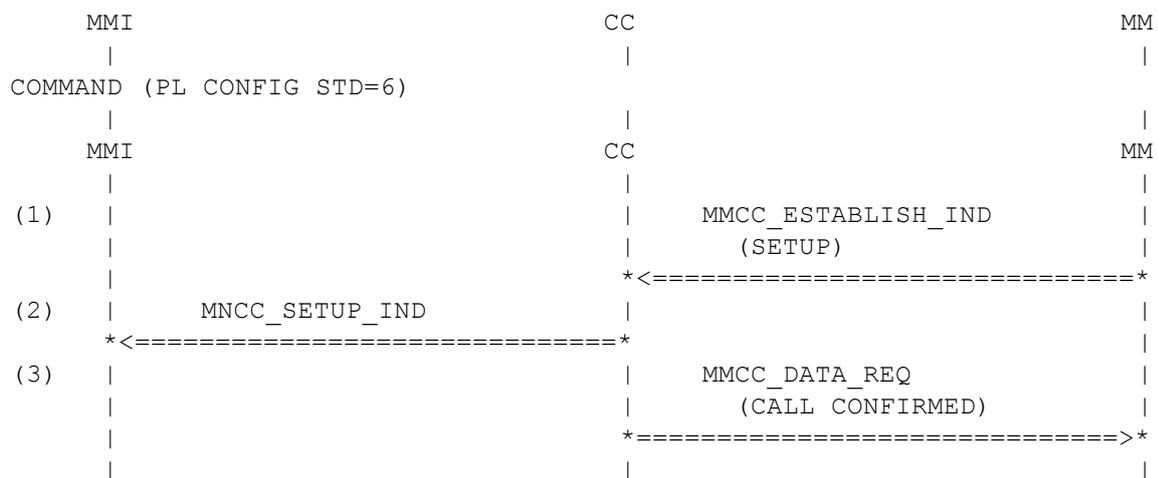
Primitive	Parameter	Value
(4) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_BS20_NT_14400_1
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	d1_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
repeat_2	NOT_USED	
low_layer_comp	NOT_USED	

		low_layer_comp_2	NOT_USED
		repeat_3	NOT_USED
		high_layer_comp	NOT_USED
		high_layer_comp_2	NOT_USED
		user_user	NOT_USED
		}	
( 5 )	MNCC_SETUP_IND		
		ti	TI_MT_1_RESP
		ri	NOT_PRESENT_8BIT
		bcpara	BC_PARA_BS20_NT_14400_1
		bcpara2	BC_PARA_NO_SERVICE
		progress_desc	PROG_END_TO_END_PLMN
		sig	SIGNAL_DIAL_ON
		calling_party	CLNG_PARTY_654321
		calling_party_sub	NOT_USED
		called_party	CLED_PARTY_654321
		called_party_sub	NOT_USED
		redirecting_party	REDIR_PARTY_NONE
		redirecting_party_sub	REDIR_PARTY_SUB_NONE
( 6 )	MMCC_DATA_REQ		
		d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	U_CALL_CONF
		ti	TI_MT_1_RESP
		repeat	NOT_USED
		bearer_cap	NOT_USED
		bearer_cap_2	NOT_USED
		cc_cause	NOT_USED
		}	
History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target

### 3.7.78 CC573: MTC, Non-Transparent 14.4 kBit/s negotiated (I)

**Description:** A mobile terminated call is started for 14400 bit/s in the Dualband Extended range. The PC version supports this in this frequency range. It is expected that the bearer capability is accepted with negotiation. The incoming bearer capability indicates as connection element Both, non-transparent preferred. So it is expected, that the mobile selects non-transparent.

**Preamble:** CC000



#### Parametrization

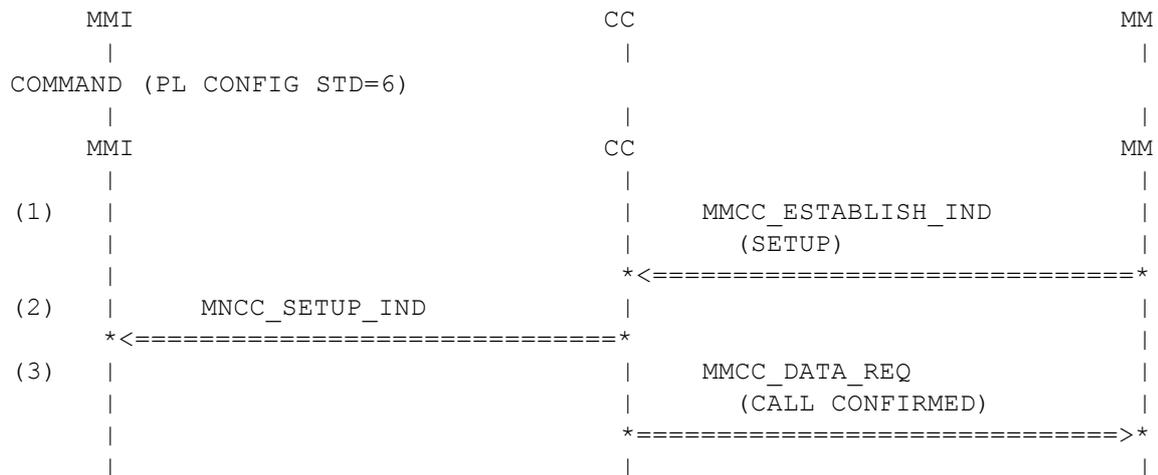
Primitive	Parameter	Value
(4) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_BS20_14400_BNTP
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
repeat_2	NOT_USED	
low_layer_comp	NOT_USED	

	low_layer_comp_2	NOT_USED	
	repeat_3	NOT_USED	
	high_layer_comp	NOT_USED	
	high_layer_comp_2	NOT_USED	
	user_user	NOT_USED	
	}		
( 5 )	MNCC_SETUP_IND		
	ti	TI_MT_1_RESP	
	ri	NOT_PRESENT_8BIT	
	bcpara	BC_PARA_BS20_NT_14400_4	
	bcpara2	BC_PARA_NO_SERVICE	
	progress_desc	PROG_END_TO_END_PLMN	
	sig	SIGNAL_DIAL_ON	
	calling_party	CLNG_PARTY_654321	
	calling_party_sub	NOT_USED	
	called_party	CLED_PARTY_654321	
	called_party_sub	NOT_USED	
	redirecting_party	REDIR_PARTY_NONE	
	redirecting_party_sub	REDIR_PARTY_SUB_NONE	
( 6 )	MMCC_DATA_REQ		
	d1	NOT_USED	
	d2	NOT_USED	
	sdu		
	{		
	component	CC	
	direction	UPLINK	
	pd	U_CALL_CONF	
	ti	TI_MT_1_RESP	
	repeat	NOT_USED	
	bearer_cap	BC_BS20_NT_14400_4	
	bearer_cap_2	NOT_USED	
	cc_cause	NOT_USED	
	}		
History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target

### 3.7.79 CC574: MTC Transparent 14.4 kBit/s negotiated (II)

**Description:** A mobile terminated call is started for 14400 bit/s in the Dualband Extended range. The PC version supports this in this frequency range. It is expected that the bearer capability is accepted with negotiation. The incoming bearer capability indicates as connection element both, transparent preferred. The mobile has been set to transparent, so it is expected, that it selects transparent.

**Preamble:** CC001B



#### Parametrization

Primitive	Parameter	Value
(4) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_BS20_14400_BTP
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
repeat_2	NOT_USED	
low_layer_comp	NOT_USED	

	low_layer_comp_2	NOT_USED	
	repeat_3	NOT_USED	
	high_layer_comp	NOT_USED	
	high_layer_comp_2	NOT_USED	
	user_user	NOT_USED	
	}		
( 5 )	MNCC_SETUP_IND		
	ti	TI_MT_1_RESP	
	ri	NOT_PRESENT_8BIT	
	bcpara	BC_PARA_BS20_T_14400	
	bcpara2	BC_PARA_NO_SERVICE	
	progress_desc	PROG_END_TO_END_PLMN	
	sig	SIGNAL_DIAL_ON	
	calling_party	CLNG_PARTY_654321	
	calling_party_sub	NOT_USED	
	called_party	CLED_PARTY_654321	
	called_party_sub	NOT_USED	
	redirecting_party	REDIR_PARTY_NONE	
	redirecting_party_sub	REDIR_PARTY_SUB_NONE	
( 6 )	MMCC_DATA_REQ		
	d1	NOT_USED	
	d2	NOT_USED	
	sdu		
	{		
	component	CC	
	direction	UPLINK	
	pd	U_CALL_CONF	
	ti	TI_MT_1_RESP	
	repeat	NOT_USED	
	bearer_cap	BC_BS20_T_14400	
	bearer_cap_2	NOT_USED	
	cc_cause	NOT_USED	
	}		
History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target

### 3.7.80 CC575: MTC, Non-Transparent 14.4 kBit/s rejected

**Description:** A mobile terminated call is started for 14.400 bit/s in the GSM 900 range. The PC version doesn't support 14.400 for GSM 900. It is expected that the call attempt is rejected.

**Preamble:** CC000

```

MMI                                CC                                MM
|                                  |                                  |
COMMAND (PL CONFIG STD=1)         |                                  |
|                                  |                                  |
MMI                                CC                                MM
|                                  |                                  |
(1) |                               | MMCC_ESTABLISH_IND         |
    |                               | (SETUP)                   |
    |                               | *<=====                *
(2) |                               | MMCC_DATA_REQ           |
    |                               | (RELEASE COMPLETE)      |
    |                               | *=====>                *
(3) |                               | MMCC_RELEASE_REQ        |
    |                               | *=====>                *
    |                               |
    |                               |

```

#### Parametrization

Primitive	Parameter	Value
(4) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	BC_BS20_NT_14400_5
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
repeat_2	NOT_USED	
low_layer_comp	NOT_USED	
low_layer_comp_2	NOT_USED	
repeat_3	NOT_USED	

		high_layer_comp	NOT_USED
		high_layer_comp_2	NOT_USED
		user_user	NOT_USED
		}	
( 5 )	MMCC_DATA_REQ		
		d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	U_RELEASE_COMP
		ti	TI_MT_1_RESP
		cc_cause	CC_CAUSE_INCOMPAT
		facility	NOT_USED
		user_user	NOT_USED
		ss_version	NOT_USED
		}	
( 6 )	MMCC_RELEASE_REQ		
		ti	TI_MT_1_RESP
History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2

### 3.7.81 CC576: MOC, Transparent, 14.4 kBit/s

**Description:** A mobile originated call is started for transparent asynchronous data with 14.4 kBit/s. The data service is supported in Dualband Extended range by the PC version. No UIMI or WAIUR parameter are to be sent to IWF in case of transparent mode .

**Preamble:** CC000

MMI	CC	MM
COMMAND (PL CONFIG STD=6)		
(1)   MNCC_SETUP_REQ		
*=====>*		
(2)	MMCC_ESTABLISH_REQ	
	*=====>*	
(3)	MMCC_ESTABLISH_CNF	
	*<=====*	
(4)	MMCC_DATA_REQ	
	(SETUP)	
	*=====>*	

#### Parametrization

Primitive	Parameter	Value
(1) MNCC_SETUP_REQ	ti	TI_MO_5
	prio	PRIO_NORM_CALL
	ri	NOT_PRESENT_8BIT
	bcpara	BC_PARA_BS20_T_14400
	bcpara2	BC_PARA_NO_SERVICE
	called_party	CLED_PARTY_654321
	called_party_sub	CLED_PARTY_SUB_NONE
	fac_inf	NOT_USED
(2) MMCC_ESTABLISH_REQ	ti	TI_MO_5
	estcs	ESTCS_MOB_ORIG_DATA
(3) MMCC_ESTABLISH_CNF	ti	TI_MO_5
(4) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_SETUP
	ti	TI_MO_5

repeat	NOT_USED
bearer_cap	<a href="#">BC BS20 T 14400 1</a>
bearer_cap_2	NOT_USED
facility	NOT_USED
calling_subaddr	NOT_USED
ul_called_num	UL_CLED_NUM_654321
called_subaddr	NOT_USED
repeat_2	NOT_USED
low_layer_comp	NOT_USED
low_layer_comp_2	NOT_USED
repeat_3	NOT_USED
high_layer_comp	NOT_USED
high_layer_comp_2	NOT_USED
user_user	NOT_USED
ss_version	NOT_USED
clir_suppr	NOT_USED
clir_invoc	NOT_USED
call_ctrl_cap	CALL_CTRL_CAP_1
}	

History:	23-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	04-Nov-02	SBK	Editorial improvements

### 3.7.82 CC577: MOC, Transparent, 14.4 kBit/s, rejected

**Description:** A mobile originated call is started for transparent asynchronous data with 14.4 kBit/s. The data service is not supported in GSM 900 range by the PC version. A release is indicated to the upper layer.

**Preamble:** CC000

	MMI		CC		MM
	COMMAND (PL CONFIG STD=1)				
(1)	MNCC_SETUP_REQ				
	*=====>*				
(2)	MNCC_RELEASE_IND				
	*<=====*				

**Parametrization**

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(3) MNCC_SETUP_REQ	ti	TI_MO_5
	prio	PRIO_NORM_CALL
	ri	NOT_PRESENT_8BIT
	bcpara	BC_PARA_BS20_T_14400
	bcpara2	BC_PARA_NO_SERVICE
	called_party	CLED_PARTY_654321
	called_party_sub	CLED_PARTY_SUB_NONE
	clir_sup	NOT_PRESENT_8BIT
	fac_inf	NOT_USED
(4) MNCC_RELEASE_IND	ti	TI_MO_5
	cause	
	MNCC_CAUSE_MS_BEARER_NOT_IMPLM	

History:                    23-Jul-98                    LE                    Initial

### 3.7.83 CC578: MOC, Non-Transparent, 14.4 kBit/s

**Description:** A mobile originated call is started for non-transparent asynchronous data with 14.4 kBit/s. The data service is supported in Dualband Extended frequency range by the PC version. The indicated flow control is inband flow control.

**Preamble:** CC000

	MMI		CC		MM
	COMMAND (PL CONFIG STD=6)				
(1)	MNCC_SETUP_REQ				
	*=====>*				
(2)			MMCC_ESTABLISH_REQ		
			*=====>*		
(3)			MMCC_ESTABLISH_CNF		
			*<=====*		
(4)			MMCC_DATA_REQ		
			(SETUP)		
			*=====>*		

#### Parametrization

Primitive	Parameter	Value
(5) MNCC_SETUP_REQ	ti	TI_MO_5
	prio	PRIO_NORM_CALL
	ri	NOT_PRESENT_8BIT
	bcpara	BC_PARA_BS20_NT_14400_1
	bcpara2	BC_PARA_NO_SERVICE
	called_party	CLED_PARTY_654321
	called_party_sub	CLED_PARTY_SUB_NONE
	clir_sup	NOT_PRESENT_8BIT
	fac_inf	NOT_USED
(6) MMCC_ESTABLISH_REQ	ti	TI_MO_5
	estcs	ESTCS_MOB_ORIG_DATA
(7) MMCC_ESTABLISH_CNF	ti	TI_MO_5
(8) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_SETUP
	ti	TI_MO_5
	repeat	NOT_USED

bearer_cap	BC_BS20_NT_14400_2
bearer_cap_2	NOT_USED
facility	NOT_USED
calling_subaddr	NOT_USED
ul_called_num	UL_CLED_NUM_654321
called_subaddr	NOT_USED
repeat_2	NOT_USED
low_layer_comp	NOT_USED
low_layer_comp_2	NOT_USED
repeat_3	NOT_USED
high_layer_comp	NOT_USED
high_layer_comp_2	NOT_USED
user_user	NOT_USED
ss_version	NOT_USED
clir_suppr	NOT_USED
clir_invoc	NOT_USED
call_ctrl_cap	CALL_CTRL_CAP_1
}	

History:	23-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2



calling_num	CLNG_NUM_654321
calling_subaddr	NOT_USED
dl_called_num	DL_CLED_NUM_654321
called_subaddr	NOT_USED
redirecting_num	NOT_USED
redirecting_subaddr	NOT_USED
repeat_2	NOT_USED
low_layer_comp	NOT_USED
low_layer_comp_2	NOT_USED
repeat_3	NOT_USED
high_layer_comp	NOT_USED
high_layer_comp_2	NOT_USED
user_user	NOT_USED
}	

## (2) MNCC\_SETUP\_IND

ti	TI_MT_1_RESP
ri	NOT_PRESENT_8BIT
bcpara	BC_PARA_BS25_NT_4800
bcpara2	BC_PARA_NO_SERVICE
progress_desc	PROG_END_TO_END_PLMN
sig	SIGNAL_DIAL_ON
calling_party	CLNG_PARTY_654321
calling_party_sub	NOT_USED
called_party	CLED_PARTY_654321
called_party_sub	NOT_USED
redirecting_party	REDIR_PARTY_NONE
redirecting_party_sub	REDIR_PARTY_SUB_NONE

## (3) MMCC\_DATA\_REQ

	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_CALL_CONF
	ti	TI_MT_1_RESP
	repeat	NOT_USED
<A>	bearer_cap	NOT_USED
<B>	bearer_cap	BC_BS25_NT_4800_A2
<C>	bearer_cap	NOT_USED
<D>	bearer_cap	BC_BS25_NT_4800_C
	bearer_cap_2	NOT_USED
	cc_cause	NOT_USED
	}	

History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target

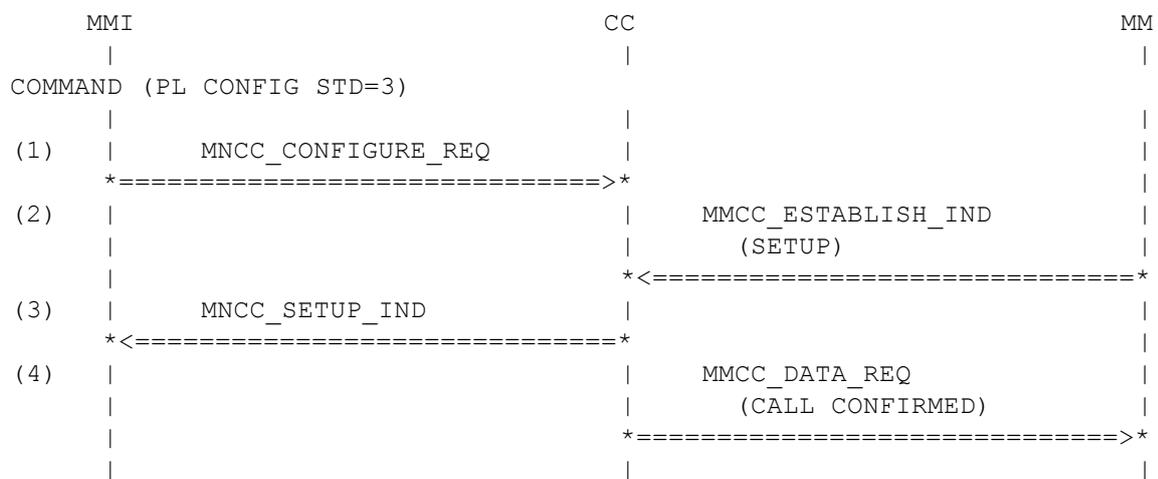
### 3.7.85 CC580: MTC, TS61, Alternate Speech / transparent Fax, SNS=5, with BC

**Description:** A mobile terminated call is started for sequential speech and transparent fax service. This is tele service 61. The data service is supported in PCS 1900 range by the PC version. The Single numbering scheme is configured for mode 5, that means alternating voice / fax, fax first. It is expected that CC swaps the two bearer capabilities.

- A: 2400 bit / s
- B: 4800 bit / s
- C: 9600 bit / s

**Preamble:** CC000

**Variants:** <A> ... <C>



**Parametrization**

Primitive	Parameter	Value
(1) MNCC_CONFIGURE_REQ	called_party_sub	NOT_USED
<A>	bcpara	BC_PARA_FAX_T_2400
<B>	bcpara	BC_PARA_FAX_T_4800
<C>	bcpara	BC_PARA_FAX_T_9600
	sns_mode	SNS_MODE_VAF_FAX
	ctm_ena	CTM_DISABLED
(2) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	{
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	REPEAT_CIRCULAR
	bearer_cap	BC_SPEECH_FR

<A>	bearer_cap_2	BC_FAX_T_2400
<B>	bearer_cap_2	BC_FAX_T_4800
<C>	bearer_cap_2	BC_FAX_T_9600
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
	repeat_2	NOT_USED
	low_layer_comp	NOT_USED
	low_layer_comp_2	NOT_USED
	repeat_3	NOT_USED
	high_layer_comp	NOT_USED
	high_layer_comp_2	NOT_USED
	user_user	NOT_USED
	}	

## (3) MNCC\_SETUP\_IND

		ti	TI_MT_1_RESP
		ri	REPEAT_CIRCULAR
<A>	bcpara		BC_PARA_FAX_T_2400
<B>	bcpara		BC_PARA_FAX_T_4800
<C>	bcpara		BC_PARA_FAX_T_9600
	bcpara2		BC_PARA_SPEECH
	progress_desc		PROG_END_TO_END_PLMN
	sig		SIGNAL_DIAL_ON
	calling_party		CLNG_PARTY_654321
	calling_party_sub		NOT_USED
	called_party		CLED_PARTY_654321
	called_party_sub		NOT_USED
	redirecting_party		REDIR_PARTY_NONE
	redirecting_party_sub		REDIR_PARTY_SUB_NONE

## (4) MMCC\_DATA\_REQ

	d1		NOT_USED
	d2		NOT_USED
	sdu		
	{		
	component		CC
	direction		UPLINK
	pd		U_CALL_CONF
	ti		TI_MT_1_RESP
	repeat		REPEAT_CIRCULAR
<A>	bearer_cap		BC_FAX_T_2400
<B>	bearer_cap		BC_FAX_T_4800
<C>	bearer_cap		BC_FAX_T_9600

		bearer_cap_2	BC_SPEECH_FR_HR_EFR
		cc_cause	NOT_USED
		}	
History:	29-Jul-98	LE	Initial
	25-Jan-00	HM	BC_SPEECH_FR_HR_EFR
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target
	02-Dec-2002	FK	Parameter 'ctm_ena' added

### 3.7.86 CC581: MTC, TS61, Alternate Speech / transparent Fax, SNS=5, no BC

**Description:** A mobile terminated call is started without bearer capabilities. The Single numbering scheme is configured for mode 5, that means alternating voice / fax, fax first. It is expected that CC indicates alternating speech / fax, fax first.

A: 2400 bit / s

B: 4800 bit / s

C: 9600 bit / s

**Preamble:** CC000

**Variants:** <A> ... <C>

MMI	CC	MM
COMMAND (PL CONFIG STD=3)		
(1)   MNCC_CONFIGURE_REQ		
*=====>*		
(2)	MMCC_ESTABLISH_IND	
	(SETUP)	
	*<=====*	
(3)   MNCC_SETUP_IND		
*<=====*		
(4)	MMCC_DATA_REQ	
	(CALL CONFIRMED)	
	*=====>*	

#### Parametrization

Primitive	Parameter	Value
(1) MNCC_CONFIGURE_REQ	called_party_sub	NOT_USED
	<A> bcpara	BC_PARA_FAX_T_2400
	<B> bcpara	BC_PARA_FAX_T_4800
	<C> bcpara	BC_PARA_FAX_T_9600
	sns_mode	SNS_MODE_VAF_FAX
	ctm_ena	CTM_DISABLED
(2) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	NOT_USED
	bearer_cap_2	NOT_USED
	facility	NOT_USED

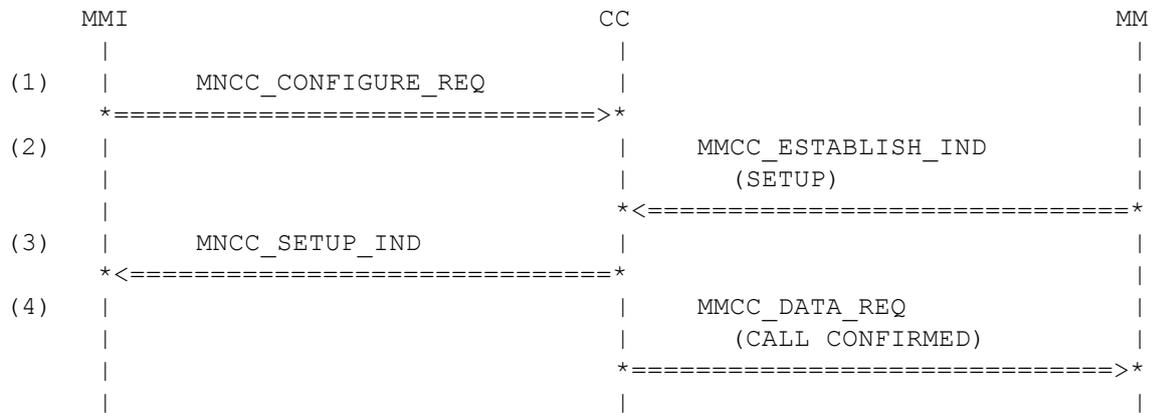
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
	repeat_2	NOT_USED
	low_layer_comp	NOT_USED
	low_layer_comp_2	NOT_USED
	repeat_3	NOT_USED
	high_layer_comp	NOT_USED
	high_layer_comp_2	NOT_USED
	user_user	NOT_USED
	}	
(3)	MNCC_SETUP_IND	
	ti	TI_MT_1_RESP
	ri	REPEAT_CIRCULAR
<A>	bcpara	BC_PARA_FAX_T_2400
<B>	bcpara	BC_PARA_FAX_T_4800
<C>	bcpara	BC_PARA_FAX_T_9600
	bcpara2	BC_PARA_SPEECH
	progress_desc	PROG_END_TO_END_PLMN
	sig	SIGNAL_DIAL_ON
	calling_party	CLNG_PARTY_654321
	calling_party_sub	NOT_USED
	called_party	CLED_PARTY_654321
	called_party_sub	NOT_USED
	redirecting_party	REDIR_PARTY_NONE
	redirecting_party_sub	REDIR_PARTY_SUB_NONE
(4)	MMCC_DATA_REQ	
	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_CALL_CONF
	ti	TI_MT_1_RESP
	repeat	REPEAT_CIRCULAR
<A>	bearer_cap	BC_FAX_T_2400
<B>	bearer_cap	BC_FAX_T_4800
<C>	bearer_cap	BC_FAX_T_9600
	bearer_cap_2	BC_SPEECH_FR_HR_EFR
	cc_cause	NOT_USED
	}	

History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target
	02-Dec-2002	FK	Parameter 'ctm_ena' added

### 3.7.87 CC582: MTC, no Bearer Capabilities, accepted, SNS=0

**Description:** The single numbering scheme mode 0 is configured. A setup message receives without bearer capabilities. It is expected that call control accepts the call and responds with a voice bearer capability in the call proceeding message.

**Preamble:** CC000



#### Parametrization

Primitive	Parameter	Value
(1) MNCC_CONFIGURE_REQ	called_party_sub	NOT_USED
	bcpara	BC_PARA_SPEECH
	sns_mode	SNS_MODE_VOICE
	ctm_ena	CTM_DISABLED
(2) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	NOT_USED
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	d1_called_num	DL_CLED_NUM_654321
called_subaddr	NOT_USED	
redirecting_num	NOT_USED	
redirecting_subaddr	NOT_USED	

		repeat_2	NOT_USED
		low_layer_comp	NOT_USED
		low_layer_comp_2	NOT_USED
		repeat_3	NOT_USED
		high_layer_comp	NOT_USED
		high_layer_comp_2	NOT_USED
		user_user	NOT_USED
		}	
( 3 )	MNCC_SETUP_IND		
		ti	TI_MT_1_RESP
		ri	NOT_PRESENT_8BIT
		bcpara	BC_PARA_SPEECH
		bcpara2	BC_PARA_NO_SERVICE
		progress_desc	PROG_END_TO_END_PLMN
		sig	SIGNAL_DIAL_ON
		calling_party	CLNG_PARTY_654321
		calling_party_sub	NOT_USED
		called_party	CLED_PARTY_654321
		called_party_sub	NOT_USED
		redirecting_party	REDIR_PARTY_NONE
		redirecting_party_sub	REDIR_PARTY_SUB_NONE
( 4 )	MMCC_DATA_REQ		
		d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	U_CALL_CONF
		ti	TI_MT_1_RESP
		repeat	NOT_USED
		bearer_cap	BC_SPEECH_FR
		bearer_cap_2	NOT_USED
		cc_cause	NOT_USED
		}	
History:	24-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target
	02-Dec-2002	FK	Parameter 'ctm_ena' added

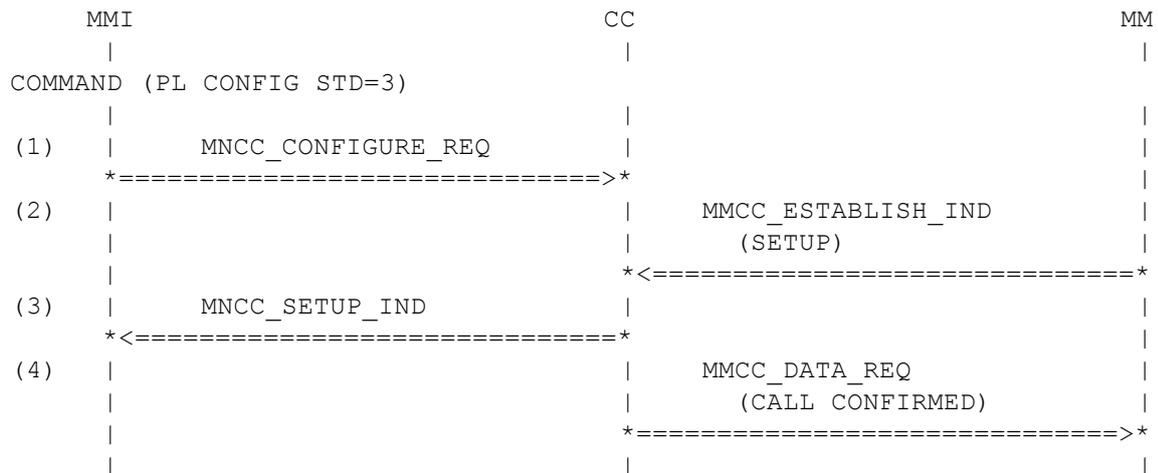
### 3.7.88 CC583: MTC, TS61, Alternate Speech / transparent Fax, SNS=1, no BC

**Description:** A mobile terminated call is started without bearer caps. The pre-defined single numbering scheme is alternating speech and transparent fax service, voice first.

- A: 2400 bit / s
- B: 4800 bit / s
- C: 9600 bit / s

**Preamble:** CC000

**Variants:** <A> ... <C>



**Parametrization**

	Primitive	Parameter	Value
(1)	MNCC_CONFIGURE_REQ		
		called_party_sub	NOT_USED
<A>		bcpara	BC_PARA_FAX_T_2400
<B>		bcpara	BC_PARA_FAX_T_4800
<C>		bcpara	BC_PARA_FAX_T_9600
		sns_mode	SNS_MODE_VAF_VOICE
		ctm_ena	CTM_DISABLED
(2)	MMCC_ESTABLISH_IND		
		d1	NOT_USED
		d2	NOT_USED
		sdu	{
		component	CC
		direction	DOWNLINK
		pd	D_SETUP
		ti	TI_MT_1
		repeat	NOT_USED
		bearer_cap	NOT_USED
		bearer_cap_2	NOT_USED
		facility	NOT_USED
		progress	PROG_1

	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
	repeat_2	NOT_USED
	low_layer_comp	NOT_USED
	low_layer_comp_2	NOT_USED
	repeat_3	NOT_USED
	high_layer_comp	NOT_USED
	high_layer_comp_2	NOT_USED
	user_user	NOT_USED
	}	
(3)	MNCC_SETUP_IND	
	ti	TI_MT_1_RESP
	ri	REPEAT_CIRCULAR
	bcpara	BC_PARA_SPEECH
<A>	bcpara2	BC_PARA_FAX_T_2400
<B>	bcpara2	BC_PARA_FAX_T_4800
<C>	bcpara2	BC_PARA_FAX_T_9600
	progress_desc	PROG_END_TO_END_PLMN
	sig	SIGNAL_DIAL_ON
	calling_party	CLNG_PARTY_654321
	calling_party_sub	NOT_USED
	called_party	CLED_PARTY_654321
	called_party_sub	NOT_USED
	redirecting_party	REDIR_PARTY_NONE
	redirecting_party_sub	REDIR_PARTY_SUB_NONE
(4)	MMCC_DATA_REQ	
	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_CALL_CONF
	ti	TI_MT_1_RESP
	repeat	REPEAT_CIRCULAR
	bearer_cap	BC_SPEECH_FR_HR_EFR
<A>	bearer_cap_2	BC_FAX_T_2400
<B>	bearer_cap_2	BC_FAX_T_4800
<C>	bearer_cap_2	BC_FAX_T_9600
	cc_cause	NOT_USED
	}	

History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target
	02-Dec-2002	FK	Parameter 'ctm_ena' added

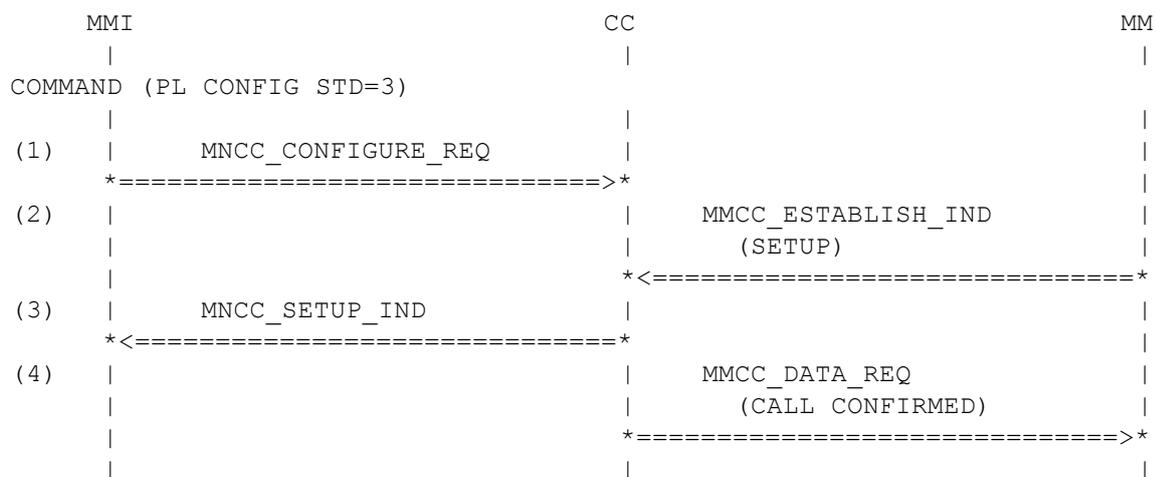
### 3.7.89 CC584: MTC, TS61, Alternate Speech / transparent Fax, SNS=1, with BC

**Description:** A mobile terminated call is started with alternating speech / transparent fax, fax first. The pre-defined single numbering scheme is alternating speech and transparent fax service, voice first. It is expected that call control swaps the bearer capabilities.

- A: 2400 bit / s
- B: 4800 bit / s
- C: 9600 bit / s

**Preamble:** CC000

**Variants:** <A> ... <C>



#### Parametrization

Primitive	Parameter	Value
(1) MNCC_CONFIGURE_REQ	called_party_sub	NOT_USED
	<A> bcpara	BC_PARA_FAX_T_2400
	<B> bcpara	BC_PARA_FAX_T_4800
	<C> bcpara	BC_PARA_FAX_T_9600
	sns_mode	SNS_MODE_VAF_VOICE
	ctm_ena	CTM_DISABLED
(2) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	{
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	REPEAT_CIRCULAR
	<A> bearer_cap	BC_FAX_T_2400
	<B> bearer_cap	BC_FAX_T_4800

<C>	bearer_cap	BC_FAX_T_9600
	bearer_cap_2	BC_SPEECH_FR
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
	repeat_2	NOT_USED
	low_layer_comp	NOT_USED
	low_layer_comp_2	NOT_USED
	repeat_3	NOT_USED
	high_layer_comp	NOT_USED
	high_layer_comp_2	NOT_USED
	user_user	NOT_USED
	}	
(3) MNCC_SETUP_IND		
	ti	TI_MT_1_RESP
	ri	REPEAT_CIRCULAR
	bcpara	BC_PARA_SPEECH
<A>	bcpara2	BC_PARA_FAX_T_2400
<B>	bcpara2	BC_PARA_FAX_T_4800
<C>	bcpara2	BC_PARA_FAX_T_9600
	progress_desc	PROG_END_TO_END_PLMN
	sig	SIGNAL_DIAL_ON
	calling_party	CLNG_PARTY_654321
	calling_party_sub	NOT_USED
	called_party	CLED_PARTY_654321
	called_party_sub	NOT_USED
	redirecting_party	REDIR_PARTY_NONE
	redirecting_party_sub	REDIR_PARTY_SUB_NONE
(4) MMCC_DATA_REQ		
	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_CALL_CONF
	ti	TI_MT_1_RESP
	repeat	REPEAT_CIRCULAR
	bearer_cap	BC_SPEECH_FR_HR_EFR
<A>	bearer_cap_2	BC_FAX_T_2400
<B>	bearer_cap_2	BC_FAX_T_4800
<C>	bearer_cap_2	BC_FAX_T_9600

		cc_cause }	NOT_USED
History:	29-Jul-98	LE	Initial
	16-Mar-00	HM	CALL CONF with all capabilities
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target
	02-Dec-2002	FK	Parameter 'ctm_ena' added

### 3.7.90 CC585: MTC, TS62, Automatic transparent Fax, SNS=2, no BCs

**Description:** A mobile terminated call is started for automatic transparent fax service. This is tele service 62. The data service is supported in PCS 1900 range by the PC version.

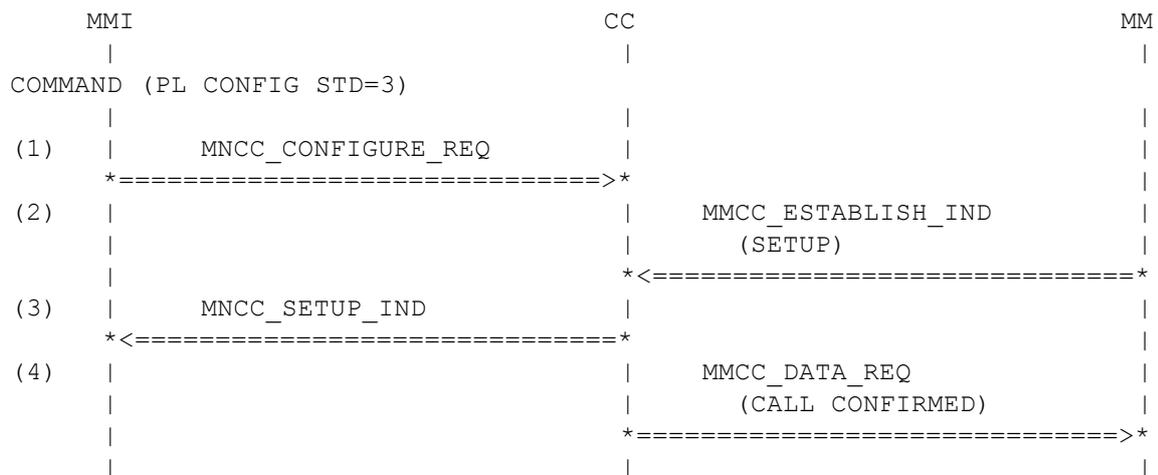
A: 2400 bit / s

B: 4800 bit / s

C: 9600 bit / s

**Preamble:** CC000

**Variants:** <A> ... <C>



#### Parametrization

Primitive	Parameter	Value
(1) MNCC_CONFIGURE_REQ	called_party_sub	NOT_USED
	<A> bcpara	BC_PARA_FAX_T_2400
	<B> bcpara	BC_PARA_FAX_T_4800
	<C> bcpara	BC_PARA_FAX_T_9600
	sns_mode	SNS_MODE_FAX
	ctm_ena	CTM_DISABLED
(2) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	NOT_USED
	bearer_cap_2	NOT_USED
	facility	NOT_USED

	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
	repeat_2	NOT_USED
	low_layer_comp	NOT_USED
	low_layer_comp_2	NOT_USED
	repeat_3	NOT_USED
	high_layer_comp	NOT_USED
	high_layer_comp_2	NOT_USED
	user_user	NOT_USED
	}	
( 3 )	MNCC_SETUP_IND	
	ti	TI_MT_1_RESP
	ri	NOT_USED
<A>	bcpara	BC_PARA_FAX_T_2400
<B>	bcpara	BC_PARA_FAX_T_4800
<C>	bcpara	BC_PARA_FAX_T_9600
	bcpara2	BC_PARA_NO_SERVICE
	progress_desc	PROG_END_TO_END_PLMN
	sig	SIGNAL_DIAL_ON
	calling_party	CLNG_PARTY_654321
	calling_party_sub	NOT_USED
	called_party	CLED_PARTY_654321
	called_party_sub	NOT_USED
	redirecting_party	REDIR_PARTY_NONE
	redirecting_party_sub	REDIR_PARTY_SUB_NONE
( 4 )	MMCC_DATA_REQ	
	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_CALL_CONF
	ti	TI_MT_1_RESP
	repeat	NOT_USED
<A>	bearer_cap	BC_FAX_T_2400
<B>	bearer_cap	BC_FAX_T_4800
<C>	bearer_cap	BC_FAX_T_9600
	bearer_cap_2	NOT_USED
	cc_cause	NOT_USED
	}	

History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target
	02-Dec-2002	FK	Parameter 'ctm_ena' added

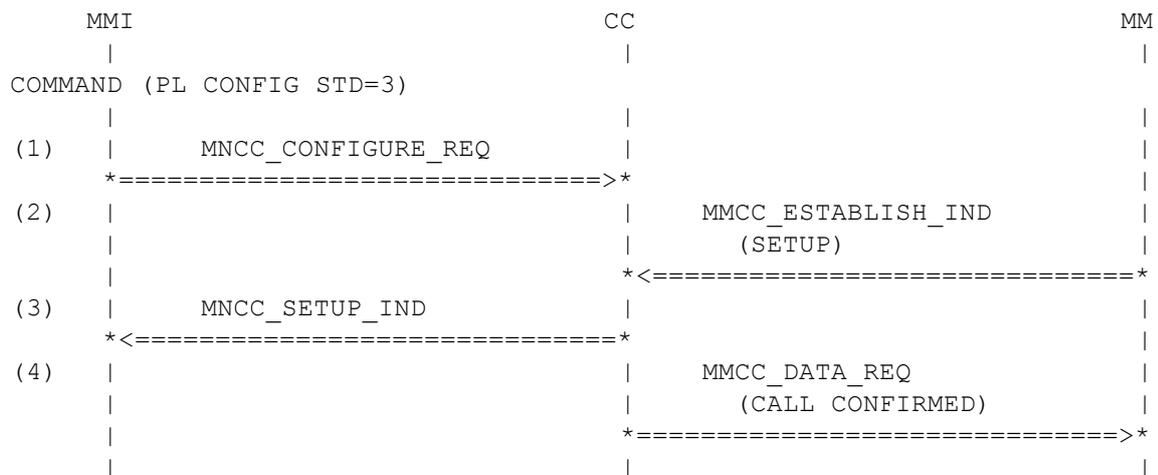
### 3.7.91 CC586: MTC, BS61, Alternate Speech / Transparent Asynchronous, SNS=3, no BC

**Description:** The predefined single numbering is alternating voice / data, voice first. A mobile terminated call is started without bearer capabilities.

- A: 300 bit / s
- B: 1200 bit / s
- C: 2400 bit / s
- D: 4800 bit / s
- E: 9600 bit / s

**Preamble:** CC000

**Variants:** <A> ... <E>



**Parametrization**

Primitive	Parameter	Value
(1) MNCC_CONFIGURE_REQ	called_party_sub	NOT_USED
	<A> bcpara	BC_PARA_BS21_T_300
	<B> bcpara	BC_PARA_BS22_T_1200
	<C> bcpara	BC_PARA_BS24_T_2400
	<D> bcpara	BC_PARA_BS25_T_4800
	<E> bcpara	BC_PARA_BS26_T_9600
	sns_mode	SNS_MODE_VAD_VOICE
	ctm_ena	CTM_DISABLED
(2) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
repeat	NOT_USED	

	bearer_cap	NOT_USED
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
	repeat_2	NOT_USED
	low_layer_comp	NOT_USED
	low_layer_comp_2	NOT_USED
	repeat_3	NOT_USED
	high_layer_comp	NOT_USED
	high_layer_comp_2	NOT_USED
	user_user	NOT_USED
	}	
(3)	MNCC_SETUP_IND	
	ti	TI_MT_1_RESP
	ri	REPEAT_CIRCULAR
	bcpara	BC_PARA_SPEECH
<A>	bcpara2	BC_PARA_BS21_T_300
<B>	bcpara2	BC_PARA_BS22_T_1200
<C>	bcpara2	BC_PARA_BS24_T_2400
<D>	bcpara2	BC_PARA_BS25_T_4800
<E>	bcpara2	BC_PARA_BS26_T_9600
	progress_desc	PROG_END_TO_END_PLMN
	sig	SIGNAL_DIAL_ON
	calling_party	CLNG_PARTY_654321
	calling_party_sub	NOT_USED
	called_party	CLED_PARTY_654321
	called_party_sub	NOT_USED
	redirecting_party	REDIR_PARTY_NONE
	redirecting_party_sub	REDIR_PARTY_SUB_NONE
(4)	MMCC_DATA_REQ	
	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_CALL_CONF
	ti	TI_MT_1_RESP
	repeat	REPEAT_CIRCULAR
	bearer_cap	BC_SPEECH_FR_HR_EFR
<A>	bearer_cap_2	BC_BS21_T_300

<B>	bearer_cap_2	BC_BS22_T_1200
<C>	bearer_cap_2	BC_BS24_T_2400
<D>	bearer_cap_2	BC_BS25_T_4800
<E>	bearer_cap_2	BC_BS26_T_9600
	cc_cause	NOT_USED
	}	

History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target
	02-Dec-2002	FK	Parameter 'ctm_ena' added

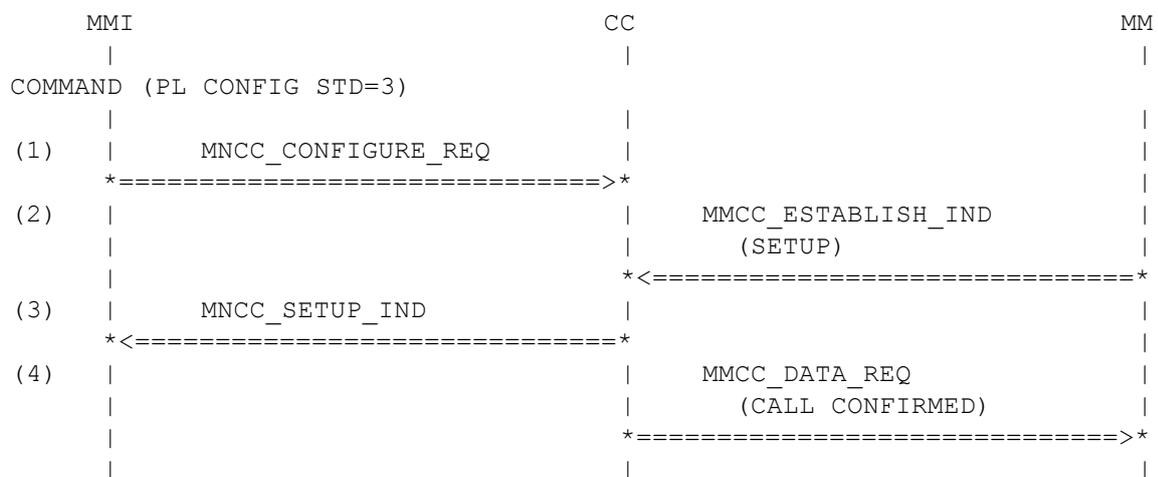
### 3.7.92 CC587: MTC, BS61, Alternate Speech / Transparent Asynch, SNS=3, with BC

**Description:** The predefined single numbering is alternating voice / data, voice first. A mobile terminated call is started with bearer capabilities. It is expected that call control swaps the incoming bearer capabilities.

- A: 300 bit / s
- B: 1200 bit / s
- C: 2400 bit / s
- D: 4800 bit / s
- E: 9600 bit / s

**Preamble:** CC000

**Variants:** <A> ... <E>



**Parametrization**

Primitive	Parameter	Value
(1) MNCC_CONFIGURE_REQ	called_party_sub	NOT_USED
<A>	bcpara	BC_PARA_BS21_T_300
<B>	bcpara	BC_PARA_BS22_T_1200
<C>	bcpara	BC_PARA_BS24_T_2400
<D>	bcpara	BC_PARA_BS25_T_4800
<E>	bcpara	BC_PARA_BS26_T_9600
	sns_mode	SNS_MODE_VAD_VOICE
	ctm_ena	CTM_DISABLED
(2) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1

	repeat	REPEAT_CIRCULAR
<A>	bearer_cap	BC_BS21_T_300
<B>	bearer_cap	BC_BS22_T_1200
<C>	bearer_cap	BC_BS24_T_2400
<D>	bearer_cap	BC_BS25_T_4800
<E>	bearer_cap	BC_BS26_T_9600
	bearer_cap_2	BC_SPEECH_FR
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
	repeat_2	NOT_USED
	low_layer_comp	NOT_USED
	low_layer_comp_2	NOT_USED
	repeat_3	NOT_USED
	high_layer_comp	NOT_USED
	high_layer_comp_2	NOT_USED
	user_user	NOT_USED
	}	
(3) MNCC_SETUP_IND		
	ti	TI_MT_1_RESP
	ri	REPEAT_CIRCULAR
	bcpara	BC_PARA_SPEECH
<A>	bcpara2	BC_PARA_BS21_T_300
<B>	bcpara2	BC_PARA_BS22_T_1200
<C>	bcpara2	BC_PARA_BS24_T_2400
<D>	bcpara2	BC_PARA_BS25_T_4800
<E>	bcpara2	BC_PARA_BS26_T_9600
	progress_desc	PROG_END_TO_END_PLMN
	sig	SIGNAL_DIAL_ON
	calling_party	CLNG_PARTY_654321
	calling_party_sub	NOT_USED
	called_party	CLED_PARTY_654321
	called_party_sub	NOT_USED
	redirecting_party	REDIR_PARTY_NONE
	redirecting_party_sub	REDIR_PARTY_SUB_NONE
(4) MMCC_DATA_REQ		
	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK

	pd	U_CALL_CONF
	ti	TI_MT_1_RESP
	repeat	REPEAT_CIRCULAR
	bearer_cap	BC_SPEECH_FR_HR_EFR
<A>	bearer_cap_2	BC_BS21_T_300
<B>	bearer_cap_2	BC_BS22_T_1200
<C>	bearer_cap_2	BC_BS24_T_2400
<D>	bearer_cap_2	BC_BS25_T_4800
<E>	bearer_cap_2	BC_BS26_T_9600
	cc_cause	NOT_USED
	}	

History:	29-Jul-98	LE	Initial
	16-Oct-00	HM	Changed BC in CALL CONFIRMED
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target
	02-Dec-2002	FK	Parameter 'ctm_ena' added

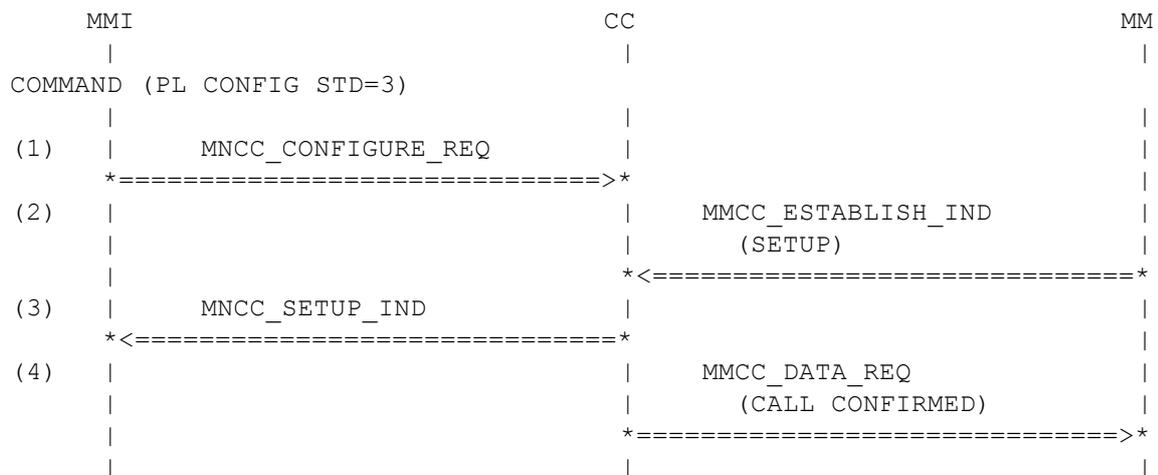
### 3.7.93 CC588: MTC, BS61, Alternate Speech / Non-Transparent Asynch, SNS=3, no BCs

**Description:** The predefined single numbering is alternating voice / data, voice first. A mobile terminated call is started without bearer capabilities.

- A: 300 bit / s
- B: 1200 bit / s
- C: 2400 bit / s
- D: 4800 bit / s
- E: 9600 bit / s

**Preamble:** CC000

**Variants:** <A> ... <E>



**Parametrization**

Primitive	Parameter	Value
(1) MNCC_CONFIGURE_REQ	called_party_sub	NOT_USED
	<A> bcpara	BC_PARA_BS21_NT_300_1
	<B> bcpara	BC_PARA_BS22_NT_1200
	<C> bcpara	BC_PARA_BS24_NT_2400
	<D> bcpara	BC_PARA_BS25_NT_4800
	<E> bcpara	BC_PARA_BS26_NT_9600
	sns_mode	SNS_MODE_VAD_VOICE
	ctm_ena	CTM_DISABLED
(2) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED

	bearer_cap	NOT_USED
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
	repeat_2	NOT_USED
	low_layer_comp	NOT_USED
	low_layer_comp_2	NOT_USED
	repeat_3	NOT_USED
	high_layer_comp	NOT_USED
	high_layer_comp_2	NOT_USED
	user_user	NOT_USED
	}	
(3)	MNCC_SETUP_IND	
	ti	TI_MT_1_RESP
	ri	REPEAT_CIRCULAR
	bcpara	BC_PARA_SPEECH
<A>	bcpara2	BC_PARA_BS21_NT_300_1
<B>	bcpara2	BC_PARA_BS22_NT_1200
<C>	bcpara2	BC_PARA_BS24_NT_2400_V22BIS
<D>	bcpara2	BC_PARA_BS25_NT_4800
<E>	bcpara2	BC_PARA_BS26_NT_9600
	progress_desc	PROG_END_TO_END_PLMN
	sig	SIGNAL_DIAL_ON
	calling_party	CLNG_PARTY_654321
	calling_party_sub	NOT_USED
	called_party	CLED_PARTY_654321
	called_party_sub	NOT_USED
	redirecting_party	REDIR_PARTY_NONE
	redirecting_party_sub	REDIR_PARTY_SUB_NONE
(4)	MMCC_DATA_REQ	
	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_CALL_CONF
	ti	TI_MT_1_RESP
	repeat	REPEAT_CIRCULAR
	bearer_cap	BC_SPEECH_FR_HR_EFR
<A>	bearer_cap_2	BC_BS21_NT_300_1_RSP

<B>		bearer_cap_2	BC_BS22_NT_1200_RSP
<C>		bearer_cap_2	BC_BS24_NT_2400_RSP
<D>		bearer_cap_2	BC_BS25_NT_4800_RSP
<E>		bearer_cap_2	BC_BS26_NT_9600_OUTBAND
		cc_cause	NOT_USED
		}	
History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target
	02-Dec-2002	FK	Parameter 'ctm_ena' added

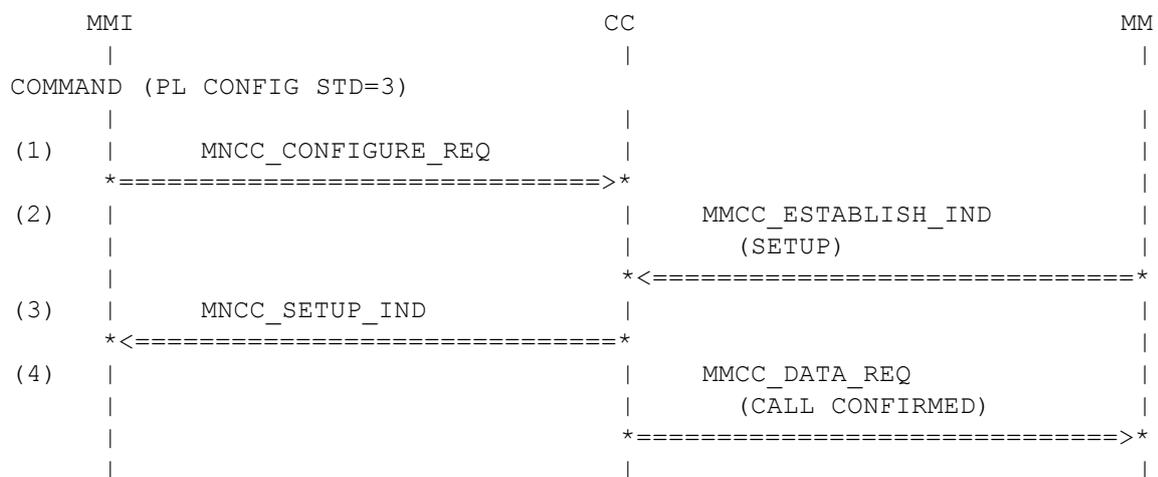
### 3.7.94 CC589: MTC, BS61, Alternate Speech / Non-Transp Asynch, SNS=3, with BCs

**Description:** The predefined single numbering is alternating voice / data, voice first. A mobile terminated call is started with bearer capabilities. It is expected that call control swaps the incoming bearer capabilities.

- A: 300 bit / s
- B: 1200 bit / s
- C: 2400 bit / s
- D: 4800 bit / s
- E: 9600 bit / s

**Preamble:** CC000

**Variants:** <A> ... <E>



**Parametrization**

Primitive	Parameter	Value
(1) MNCC_CONFIGURE_REQ	called_party_sub	NOT_USED
	<A> bcpara	BC_PARA_BS21_NT_300_1
	<B> bcpara	BC_PARA_BS22_NT_1200
	<C> bcpara	BC_PARA_BS24_NT_2400
	<D> bcpara	BC_PARA_BS25_NT_4800
	<E> bcpara	BC_PARA_BS26_NT_9600
	sns_mode	SNS_MODE_VAD_VOICE
	ctm_ena	CTM_DISABLED
(2) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1

	repeat	REPEAT_CIRCULAR
<A> bearer_cap	BC_BS21_NT_300_1	
<B> bearer_cap	BC_BS22_NT_1200	
<C> bearer_cap	BC_BS24_NT_2400_V26TER	
<D> bearer_cap	BC_BS25_NT_4800	
<E> bearer_cap	BC_BS26_NT_9600	
	bearer_cap_2	BC_SPEECH_FR
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
	repeat_2	NOT_USED
	low_layer_comp	NOT_USED
	low_layer_comp_2	NOT_USED
	repeat_3	NOT_USED
	high_layer_comp	NOT_USED
	high_layer_comp_2	NOT_USED
	user_user	NOT_USED
	}	
(3) MNCC_SETUP_IND		
	ti	TI_MT_1_RESP
	ri	REPEAT_CIRCULAR
	bcpara	BC_PARA_SPEECH
<A>	bcpara2	BC_PARA_BS21_NT_300_1
<B>	bcpara2	BC_PARA_BS22_NT_1200
<C>	bcpara2	BC_PARA_BS24_NT_2400
<D>	bcpara2	BC_PARA_BS25_NT_4800
<E>	bcpara2	BC_PARA_BS26_NT_9600
	progress_desc	PROG_END_TO_END_PLMN
	sig	SIGNAL_DIAL_ON
	calling_party	CLNG_PARTY_654321
	calling_party_sub	NOT_USED
	called_party	CLED_PARTY_654321
	called_party_sub	NOT_USED
	redirecting_party	REDIR_PARTY_NONE
	redirecting_party_sub	REDIR_PARTY_SUB_NONE
(4) MMCC_DATA_REQ		
	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK

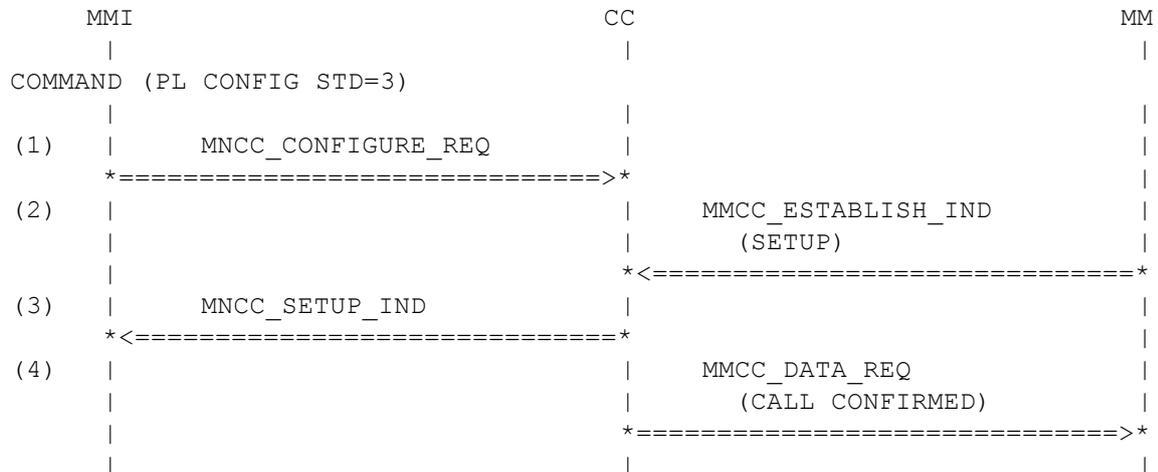
	pd	U_CALL_CONF
	ti	TI_MT_1_RESP
	repeat	REPEAT_CIRCULAR
	bearer_cap	BC_SPEECH_FR_HR
<A>	bearer_cap_2	BC_BS21_NT_300_1
<B>	bearer_cap_2	BC_BS22_NT_1200
<C>	bearer_cap_2	BC_BS24_NT_2400_V26TER
<D>	bearer_cap_2	BC_BS25_NT_4800
<E>	bearer_cap_2	BC_BS26_NT_9600
	cc_cause	NOT_USED
	}	

History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target
	02-Dec-2002	FK	Parameter 'ctm_ena' added

### 3.7.95 CC590: MTC, BS24, 3.1 kHz Audio Transparent 2.4 kBit/s, SNS=4, no BCs

**Description:** The predefined single numbering is data. A mobile terminated call is started without bearer capabilities.

**Preamble:** CC000



**Parametrization**

Primitive	Parameter	Value
(1) MNCC_CONFIGURE_REQ	called_party_sub	NOT_USED
	bcpara	BC_PARA_BS24_T_2400
	sns_mode	SNS_MODE_DATA
	ctm_ena	CTM_DISABLED
(2) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
	repeat	NOT_USED
	bearer_cap	NOT_USED
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
called_subaddr	NOT_USED	
redirecting_num	NOT_USED	
redirecting_subaddr	NOT_USED	

		repeat_2	NOT_USED
		low_layer_comp	NOT_USED
		low_layer_comp_2	NOT_USED
		repeat_3	NOT_USED
		high_layer_comp	NOT_USED
		high_layer_comp_2	NOT_USED
		user_user	NOT_USED
		}	
( 3 )	MNCC_SETUP_IND		
		ti	TI_MT_1_RESP
		ri	NOT_PRESENT_8BIT
		bcpara	BC_PARA_BS24_T_2400
		bcpara2	BC_PARA_NO_SERVICE
		progress_desc	PROG_END_TO_END_PLMN
		sig	SIGNAL_DIAL_ON
		calling_party	CLNG_PARTY_654321
		calling_party_sub	NOT_USED
		called_party	CLED_PARTY_654321
		called_party_sub	NOT_USED
		redirecting_party	REDIR_PARTY_NONE
		redirecting_party_sub	REDIR_PARTY_SUB_NONE
( 4 )	MMCC_DATA_REQ		
		d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	U_CALL_CONF
		ti	TI_MT_1_RESP
		repeat	NOT_USED
		bearer_cap	BC_BS24_T_2400
		bearer_cap_2	NOT_USED
		cc_cause	NOT_USED
		}	
History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target
	02-Dec-2002	FK	Parameter 'ctm_ena' added

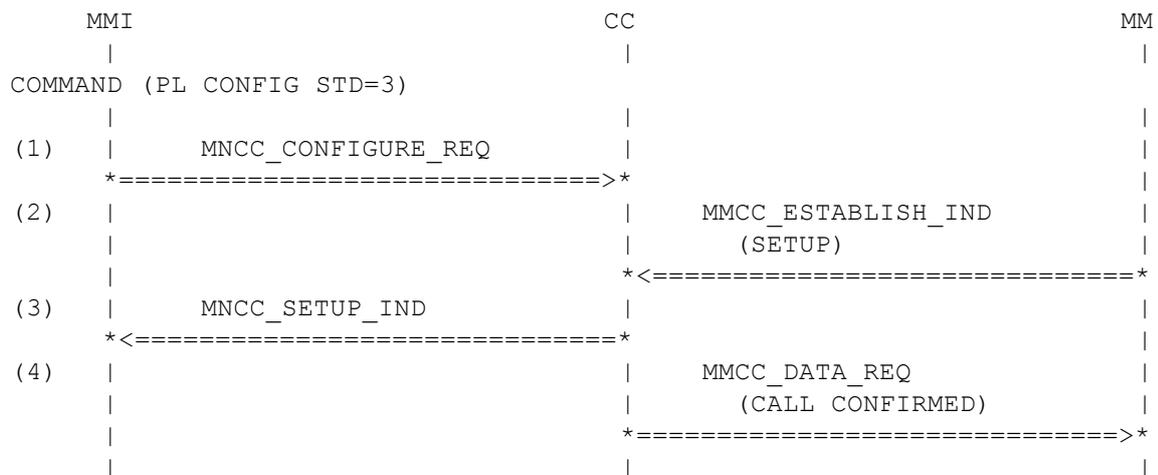
### 3.7.96 CC591: MTC, BS61, Alternate Speech / Transparent Asynchronous, SNS=6, no BC

**Description:** The predefined single numbering is alternating voice / data, data first. A mobile terminated call is started without bearer capabilities.

- A: 300 bit / s
- B: 1200 bit / s
- C: 2400 bit / s
- D: 4800 bit / s
- E: 9600 bit / s

**Preamble:** CC000

**Variants:** <A> ... <E>



#### Parametrization

Primitive	Parameter	Value
(1) MNCC_CONFIGURE_REQ	called_party_sub	NOT_USED
	<A> bcpara	BC_PARA_BS21_T_300
	<B> bcpara	BC_PARA_BS22_T_1200
	<C> bcpara	BC_PARA_BS24_T_2400
	<D> bcpara	BC_PARA_BS25_T_4800
	<E> bcpara	BC_PARA_BS26_T_9600
	sns_mode	SNS_MODE_VAD_DATA
	ctm_ena	CTM_DISABLED
(2) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
repeat	NOT_USED	

	bearer_cap	NOT_USED
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
	repeat_2	NOT_USED
	low_layer_comp	NOT_USED
	low_layer_comp_2	NOT_USED
	repeat_3	NOT_USED
	high_layer_comp	NOT_USED
	high_layer_comp_2	NOT_USED
	user_user	NOT_USED
	}	
(3)	MNCC_SETUP_IND	
	ti	TI_MT_1_RESP
	ri	REPEAT_CIRCULAR
<A>	bcpara	BC_PARA_BS21_T_300
<B>	bcpara	BC_PARA_BS22_T_1200
<C>	bcpara	BC_PARA_BS24_T_2400
<D>	bcpara	BC_PARA_BS25_T_4800
<E>	bcpara	BC_PARA_BS26_T_9600
	bcpara2	BC_PARA_SPEECH
	progress_desc	PROG_END_TO_END_PLMN
	sig	SIGNAL_DIAL_ON
	calling_party	CLNG_PARTY_654321
	calling_party_sub	NOT_USED
	called_party	CLED_PARTY_654321
	called_party_sub	NOT_USED
	redirecting_party	REDIR_PARTY_NONE
	redirecting_party_sub	REDIR_PARTY_SUB_NONE
(4)	MMCC_DATA_REQ	
	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_CALL_CONF
	ti	TI_MT_1_RESP
	repeat	REPEAT_CIRCULAR
<A>	bearer_cap	BC_BS21_T_300
<B>	bearer_cap	BC_BS22_T_1200

<C>		bearer_cap	BC_BS24_T_2400
<D>		bearer_cap	BC_BS25_T_4800
<E>		bearer_cap	BC_BS26_T_9600
		bearer_cap_2	BC_SPEECH_FR_HR_EFR
		cc_cause	NOT_USED
		}	
History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target
	02-Dec-2002	FK	Parameter 'ctm_ena' added

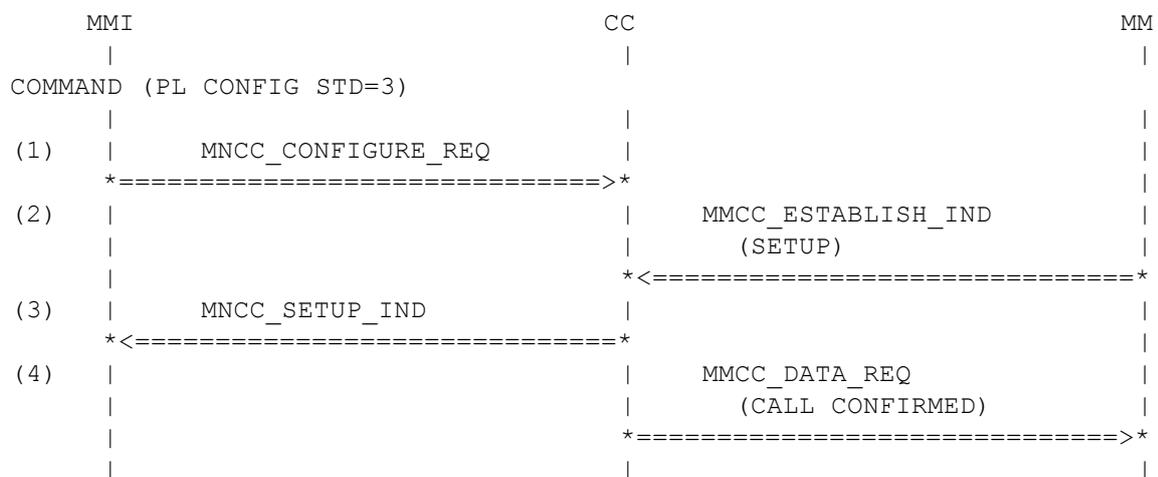
### 3.7.97 CC592: MTC, BS61, Alternate Speech / Transparent Asynch, SNS=6, with BC

**Description:** The predefined single numbering is alternating voice / data, data first. A mobile terminated call is started with bearer capabilities. It is expected that call control swaps the incoming bearer capabilities.

- A: 300 bit / s
- B: 1200 bit / s
- C: 2400 bit / s
- D: 4800 bit / s
- E: 9600 bit / s

**Preamble:** CC000

**Variants:** <A> ... <E>



**Parametrization**

Primitive	Parameter	Value
(1) MNCC_CONFIGURE_REQ	called_party_sub	NOT_USED
<A>	bcpara	BC_PARA_BS21_T_300
<B>	bcpara	BC_PARA_BS22_T_1200
<C>	bcpara	BC_PARA_BS24_T_2400
<D>	bcpara	BC_PARA_BS25_T_4800
<E>	bcpara	BC_PARA_BS26_T_9600
	sns_mode	SNS_MODE_VAD_DATA
	ctm_ena	CTM_DISABLED
(2) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1

	repeat	REPEAT_CIRCULAR
	bearer_cap	BC_SPEECH_FR
<A>	bearer_cap_2	BC_BS21_T_300
<B>	bearer_cap_2	BC_BS22_T_1200
<C>	bearer_cap_2	BC_BS24_T_2400
<D>	bearer_cap_2	BC_BS25_T_4800
<E>	bearer_cap_2	BC_BS26_T_9600
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
	repeat_2	NOT_USED
	low_layer_comp	NOT_USED
	low_layer_comp_2	NOT_USED
	repeat_3	NOT_USED
	high_layer_comp	NOT_USED
	high_layer_comp_2	NOT_USED
	user_user	NOT_USED
	}	
(3)	MNCC_SETUP_IND	
	ti	TI_MT_1_RESP
	ri	REPEAT_CIRCULAR
<A>	bcpara	BC_PARA_BS21_T_300
<B>	bcpara	BC_PARA_BS22_T_1200
<C>	bcpara	BC_PARA_BS24_T_2400
<D>	bcpara	BC_PARA_BS25_T_4800
<E>	bcpara	BC_PARA_BS26_T_9600
	bcpara2	BC_PARA_SPEECH
	progress_desc	PROG_END_TO_END_PLMN
	sig	SIGNAL_DIAL_ON
	calling_party	CLNG_PARTY_654321
	calling_party_sub	NOT_USED
	called_party	CLED_PARTY_654321
	called_party_sub	NOT_USED
	redirecting_party	REDIR_PARTY_NONE
	redirecting_party_sub	REDIR_PARTY_SUB_NONE
(4)	MMCC_DATA_REQ	
	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK

	pd	U_CALL_CONF
	ti	TI_MT_1_RESP
	repeat	REPEAT_CIRCULAR
<A>	bearer_cap	BC_BS21_T_300
<B>	bearer_cap	BC_BS22_T_1200
<C>	bearer_cap	BC_BS24_T_2400
<D>	bearer_cap	BC_BS25_T_4800
<E>	bearer_cap	BC_BS26_T_9600
	bearer_cap_2	BC_SPEECH_FR_HR_EFR
	cc_cause	NOT_USED
	}	

History:	29-Jul-98	LE	Initial
	25-Jan-00	HM	BC_SPEECH_FR_HR_EFR
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target
	02-Dec-2002	FK	Parameter 'ctm_ena' added

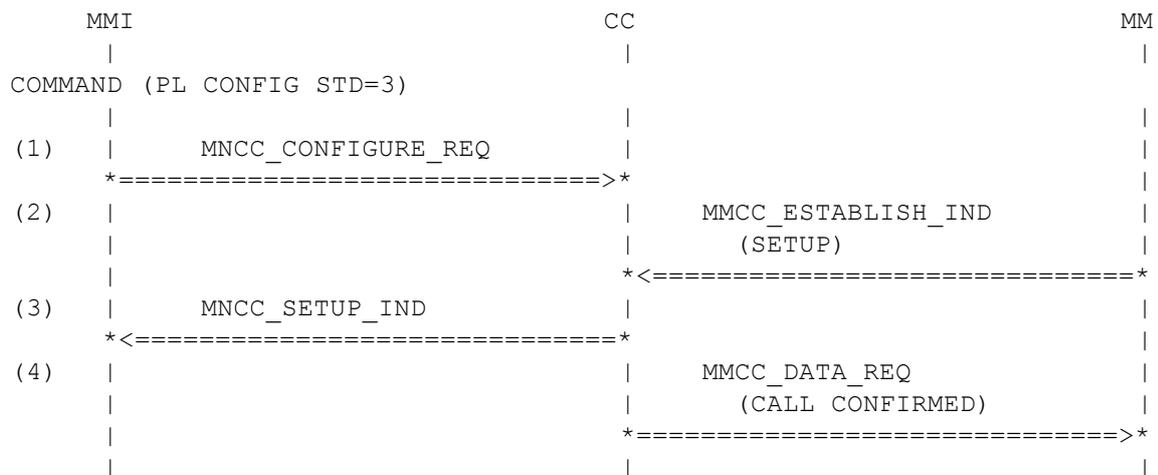
### 3.7.98 CC593: MTC, BS61, Alternate Speech / Non-Transparent Asynch, SNS=6, no BCs

**Description:** The predefined single numbering is alternating voice / data, data first. A mobile terminated call is started without bearer capabilities.

- A: 300 bit / s
- B: 1200 bit / s
- C: 2400 bit / s
- D: 4800 bit / s
- E: 9600 bit / s

**Preamble:** CC000

**Variants:** <A> ... <E>



#### Parametrization

Primitive	Parameter	Value
(1) MNCC_CONFIGURE_REQ	called_party_sub	NOT_USED
	<A> bcpara	BC_PARA_BS21_NT_300_1
	<B> bcpara	BC_PARA_BS22_NT_1200
	<C> bcpara	BC_PARA_BS24_NT_2400
	<D> bcpara	BC_PARA_BS25_NT_4800
	<E> bcpara	BC_PARA_BS26_NT_9600
	sns_mode	SNS_MODE_VAD_DATA
	ctm_ena	CTM_DISABLED
(2) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
repeat	NOT_USED	

	bearer_cap	NOT_USED
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
	repeat_2	NOT_USED
	low_layer_comp	NOT_USED
	low_layer_comp_2	NOT_USED
	repeat_3	NOT_USED
	high_layer_comp	NOT_USED
	high_layer_comp_2	NOT_USED
	user_user	NOT_USED
	}	
(3)	MNCC_SETUP_IND	
	ti	TI_MT_1_RESP
	ri	REPEAT_CIRCULAR
<A>	bcpara	BC_PARA_BS21_NT_300_1
<B>	bcpara	BC_PARA_BS22_NT_1200
<C>	bcpara	BC_PARA_BS24_NT_2400_V22BIS
<D>	bcpara	BC_PARA_BS25_NT_4800
<E>	bcpara	BC_PARA_BS26_NT_9600
	bcpara2	BC_PARA_SPEECH
	progress_desc	PROG_END_TO_END_PLMN
	sig	SIGNAL_DIAL_ON
	calling_party	CLNG_PARTY_654321
	calling_party_sub	NOT_USED
	called_party	CLED_PARTY_654321
	called_party_sub	NOT_USED
	redirecting_party	REDIR_PARTY_NONE
	redirecting_party_sub	REDIR_PARTY_SUB_NONE
(4)	MMCC_DATA_REQ	
	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_CALL_CONF
	ti	TI_MT_1_RESP
	repeat	REPEAT_CIRCULAR
<A>	bearer_cap	BC_BS21_NT_300_1_RSP
<B>	bearer_cap	BC_BS22_NT_1200_RSP

<C>	bearer_cap	BC_BS24_NT_2400_RSP
<D>	bearer_cap	BC_BS25_NT_4800_RSP
<E>	bearer_cap	BC_BS26_NT_9600_OUTBAND
	bearer_cap_2	BC_SPEECH_FR_HR_EFR
	cc_cause	NOT_USED
	}	

History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target
	02-Dec-2002	FK	Parameter 'ctm_ena' added

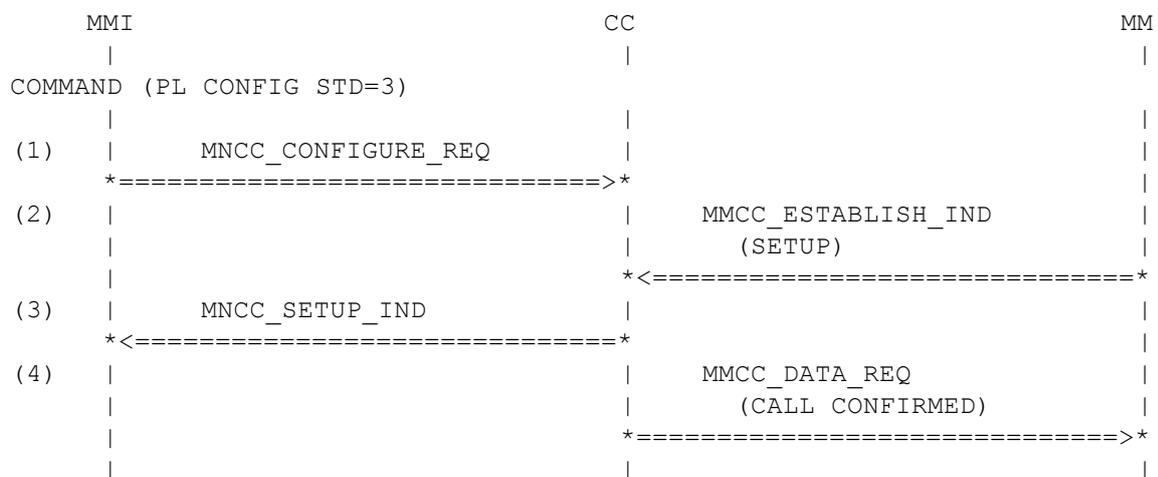
### 3.7.99 CC594: MTC, BS61, Alternate Speech / Non-Transp Asynch, SNS=6, with BCs

**Description:** The predefined single numbering is alternating voice / data, data first. A mobile terminated call is started with bearer capabilities. It is expected that call control swaps the incoming bearer capabilities.

- A: 300 bit / s
- B: 1200 bit / s
- C: 2400 bit / s
- D: 4800 bit / s
- E: 9600 bit / s

**Preamble:** CC000

**Variants:** <A> ... <E>



**Parametrization**

Primitive	Parameter	Value
(1) MNCC_CONFIGURE_REQ	called_party_sub	NOT_USED
<A>	bcpara	BC_PARA_BS21_NT_300_1
<B>	bcpara	BC_PARA_BS22_NT_1200
<C>	bcpara	BC_PARA_BS24_NT_2400
<D>	bcpara	BC_PARA_BS25_NT_4800
<E>	bcpara	BC_PARA_BS26_NT_9600
	sns_mode	SNS_MODE_VAD_DATA
	ctm_ena	CTM_DISABLED
(2) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1

	repeat	REPEAT_CIRCULAR
	bearer_cap	BC_SPEECH_FR
<A>	bearer_cap_2	BC_BS21_NT_300_1
<B>	bearer_cap_2	BC_BS22_NT_1200
<C>	bearer_cap_2	BC_BS24_NT_2400_V26TER
<D>	bearer_cap_2	BC_BS25_NT_4800
<E>	bearer_cap_2	BC_BS26_NT_9600
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
	repeat_2	NOT_USED
	low_layer_comp	NOT_USED
	low_layer_comp_2	NOT_USED
	repeat_3	NOT_USED
	high_layer_comp	NOT_USED
	high_layer_comp_2	NOT_USED
	user_user	NOT_USED
	}	
(3)	MNCC_SETUP_IND	
	ti	TI_MT_1_RESP
	ri	REPEAT_CIRCULAR
<A>	bcpara	BC_PARA_BS21_NT_300_1
<B>	bcpara	BC_PARA_BS22_NT_1200
<C>	bcpara	BC_PARA_BS24_NT_2400
<D>	bcpara	BC_PARA_BS25_NT_4800
<E>	bcpara	BC_PARA_BS26_NT_9600
	bcpara2	BC_PARA_SPEECH
	progress_desc	PROG_END_TO_END_PLMN
	sig	SIGNAL_DIAL_ON
	calling_party	CLNG_PARTY_654321
	calling_party_sub	NOT_USED
	called_party	CLED_PARTY_654321
	called_party_sub	NOT_USED
	redirecting_party	REDIR_PARTY_NONE
	redirecting_party_sub	REDIR_PARTY_SUB_NONE
(4)	MMCC_DATA_REQ	
	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK

	pd	U_CALL_CONF
	ti	TI_MT_1_RESP
	repeat	REPEAT_CIRCULAR
<A>	bearer_cap	BC_BS21_NT_300_1
<B>	bearer_cap	BC_BS22_NT_1200
<C>	bearer_cap	BC_BS24_NT_2400_V26TER
<D>	bearer_cap	BC_BS25_NT_4800
<E>	bearer_cap	BC_BS26_NT_9600
	bearer_cap_2	BC_SPEECH_FR_HR_EFR
	cc_cause	NOT_USED
	}	

History:	29-Jul-98	LE	Initial
	25-Jan-00	HM	BC_SPEECH_FR_HR_EFR
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target
	02-Dec-2002	FK	Parameter 'ctm_ena' added

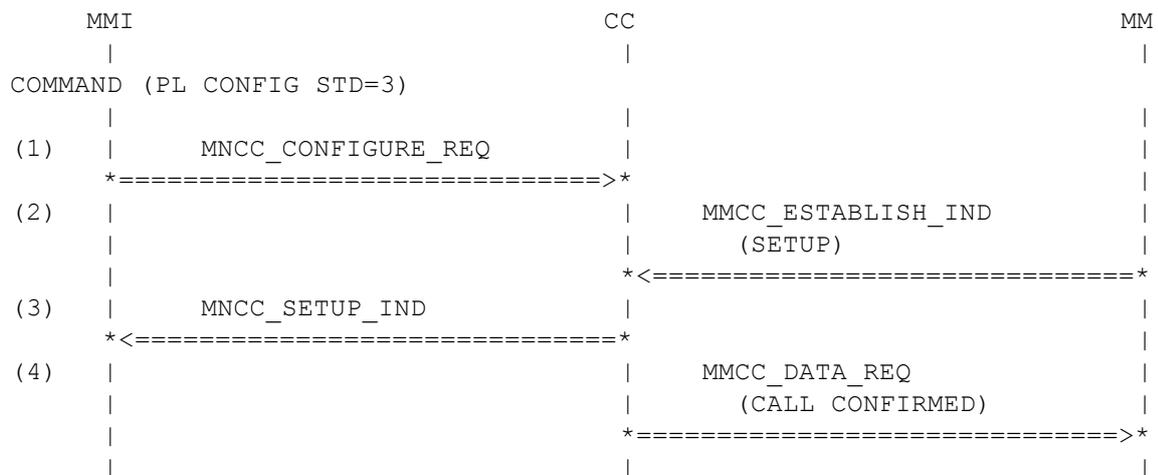
### 3.7.100 CC595: Sequential Speech / Transparent Asynchronous, SNS=7, no BC

**Description:** The predefined single numbering is sequential voice / data. A mobile terminated call is started without bearer capabilities.

- A: 300 bit / s
- B: 1200 bit / s
- C: 2400 bit / s
- D: 4800 bit / s
- E: 9600 bit / s

**Preamble:** CC000

**Variants:** <A> ... <E>



#### Parametrization

Primitive	Parameter	Value
(1) MNCC_CONFIGURE_REQ	called_party_sub	NOT_USED
	<A> bcpara	BC_PARA_BS21_T_300
	<B> bcpara	BC_PARA_BS22_T_1200
	<C> bcpara	BC_PARA_BS24_T_2400
	<D> bcpara	BC_PARA_BS25_T_4800
	<E> bcpara	BC_PARA_BS26_T_9600
	sns_mode	SNS_MODE_VFD
	ctm_ena	CTM_DISABLED
(2) MMCC_ESTABLISH_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_SETUP
	ti	TI_MT_1
repeat	NOT_USED	

	bearer_cap	NOT_USED
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	signal	SIGNAL_DIAL_ON
	calling_num	CLNG_NUM_654321
	calling_subaddr	NOT_USED
	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
	repeat_2	NOT_USED
	low_layer_comp	NOT_USED
	low_layer_comp_2	NOT_USED
	repeat_3	NOT_USED
	high_layer_comp	NOT_USED
	high_layer_comp_2	NOT_USED
	user_user	NOT_USED
	}	
(3)	MNCC_SETUP_IND	
	ti	TI_MT_1_RESP
	ri	REPEAT_SEQUENTIAL
	bcpara	BC_PARA_SPEECH
<A>	bcpara2	BC_PARA_BS21_T_300
<B>	bcpara2	BC_PARA_BS22_T_1200
<C>	bcpara2	BC_PARA_BS24_T_2400
<D>	bcpara2	BC_PARA_BS25_T_4800
<E>	bcpara2	BC_PARA_BS26_T_9600
	progress_desc	PROG_END_TO_END_PLMN
	sig	SIGNAL_DIAL_ON
	calling_party	CLNG_PARTY_654321
	calling_party_sub	NOT_USED
	called_party	CLED_PARTY_654321
	called_party_sub	NOT_USED
	redirecting_party	REDIR_PARTY_NONE
	redirecting_party_sub	REDIR_PARTY_SUB_NONE
(4)	MMCC_DATA_REQ	
	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_CALL_CONF
	ti	TI_MT_1_RESP
	repeat	REPEAT_SEQUENTIAL
	bearer_cap	BC_SPEECH_FR_HR_EFR
<A>	bearer_cap_2	BC_BS21_T_300

<B>	bearer_cap_2	BC_BS22_T_1200
<C>	bearer_cap_2	BC_BS24_T_2400
<D>	bearer_cap_2	BC_BS25_T_4800
<E>	bearer_cap_2	BC_BS26_T_9600
	cc_cause	NOT_USED
	}	

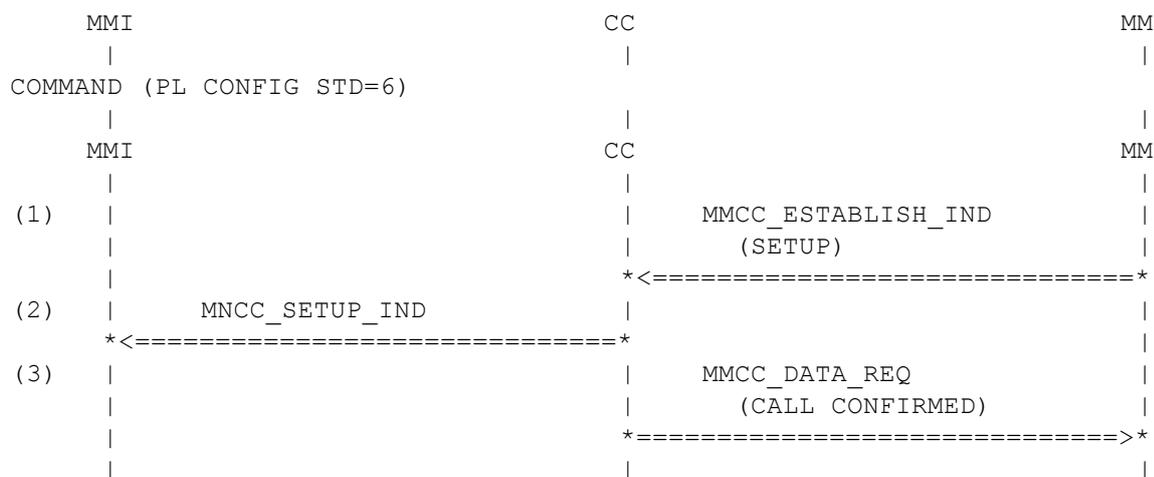
History:	29-Jul-98	LE	Initial
	10-Jul-01	JHU	Converted to TAP2
	05-Apr-02	HM	call_ctrl_cap removed as in target
	02-Dec-2002	FK	Parameter 'ctm_ena' added

### 3.7.101 CC596: MTC Transparent 14.4 kBit/s negotiated (III)

**Description:** A mobile terminated call is started for 14400 bit/s in the Dualband Extended range. The PC version supports this in this frequency range. It is expected that the bearer capability is accepted with negotiation. The incoming bearer capability indicates as connection element both, transparent preferred. The mobile has been set to transparent, so it is expected, that it selects transparent. Three cases are created where either 'other\_modem\_type\_2' or 'fnur' or both parameters are lacking in BC received from MM. Hence CC includes no 6d, 6e, 6f octets in the BCs sent in the CALL CORFIRMED message to MM in return.

**Preamble:** [CC001B](#)

**Variants:** <A> ... <C>



#### Parametrization

Primitive	Parameter	Value	
(1) MMCC_ESTABLISH_IND	d1	NOT_USED	
	d2	NOT_USED	
	sdu	{	
	component	CC	
	direction	DOWNLINK	
	pd	D_SETUP	
	ti	TI_MT_1	
	repeat	NOT_USED	
	<A>	bearer_cap	<a href="#">BC BS20 14400 BTP 1</a>
	<B>	bearer_cap	<a href="#">BC BS20 14400 BTP 2</a>
	<C>	bearer_cap	<a href="#">BC BS20 14400 BTP 3</a>
		bearer_cap_2	NOT_USED
		facility	NOT_USED
		progress	PROG_1
	signal	SIGNAL_DIAL_ON	
	calling_num	CLNG_NUM_654321	
	calling_subaddr	NOT_USED	

	dl_called_num	DL_CLED_NUM_654321
	called_subaddr	NOT_USED
	redirecting_num	NOT_USED
	redirecting_subaddr	NOT_USED
	repeat_2	NOT_USED
	low_layer_comp	NOT_USED
	low_layer_comp_2	NOT_USED
	repeat_3	NOT_USED
	high_layer_comp	NOT_USED
	high_layer_comp_2	NOT_USED
	user_user	NOT_USED
	}	
(2) MNCC_SETUP_IND		
	ti	TI_MT_1_RESP
	ri	NOT_PRESENT_8BIT
	bcpara	<a href="#">BC PARA BS26 T 9600D</a>
	bcpara2	BC_PARA_NO_SERVICE
	progress_desc	PROG_END_TO_END_PLMN
	sig	SIGNAL_DIAL_ON
	calling_party	CLNG_PARTY_654321
	calling_party_sub	NOT_USED
	called_party	CLED_PARTY_654321
	called_party_sub	NOT_USED
	redirecting_party	REDIR_PARTY_NONE
	redirecting_party_sub	REDIR_PARTY_SUB_NONE
(3) MMCC_DATA_REQ		
	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_CALL_CONF
	ti	TI_MT_1_RESP
	repeat	NOT_USED
	bearer_cap	<a href="#">BC BS20 T 14400 3</a>
	bearer_cap_2	NOT_USED
	cc_cause	NOT_USED
	call_ctrl_cap	NOT_USED
	}	

History: 13-July-02 JK Initial

### 3.7.102 CC600: Bearer capability coding

**Description:** The ACI requests coding of bearer capabilities. This may be done in any state. The mobile station is configured for HR, FR and EFR support.

- A: One valid bearer capability
- B: Two valid bearer capabilities
- C: Second bearer capability invalid

**Preamble:** CC000

**Variants:** <A> ... <C>

	MMI	CC	MM
COMMAND	(PL CONFIG STD=3)		
(1)	MNCC_BEARER_CAP_REQ		
	*=====>*		
(2)	MNCC_BEARER_CAP_CNF		
	*<=====*		

**Parametrization**

Primitive	Parameter	Value
 (8) MNCC_BEARER_CAP_REQ		
	req_id	REQ_ID_5
	bc_mod	BC_MOD_CODE
<A>	bcconf	NOT_USED
<A>	bcpara	BC_PARA_SPEECH
<A>	bcconf2	BC_CONF_NO_SERVICE
<A>	bcpara2	BC_PARA_NO_SERVICE
<B>	bcconf	NOT_USED
<B>	bcpara	BC_PARA_SPEECH
<B>	bcconf2	NOT_USED
<B>	bcpara2	BC_PARA_BS21_T_300
<C>	bcconf	NOT_USED
<C>	bcpara	BC_PARA_SPEECH
<C>	bcconf2	NOT_USED
<C>	bcpara2	BC_PARA_UNSUPP
 (9) MNCC_BEARER_CAP_CNF		
	req_id	REQ_ID_5
	bc_mod	BC_MOD_CODE
<A>	bcconf	BC_CONF_SPEECH_FR_HR_EFR
<A>	bcpara	BC_PARA_SPEECH
<A>	bcconf2	BC_CONF_NO_SERVICE
<A>	bcpara2	BC_PARA_NO_SERVICE
<A>	cause	MNCC_CAUSE_SUCCESS
<B>	bcconf	BC_CONF_SPEECH_FR_HR_EFR
<B>	bcpara	BC_PARA_SPEECH
<B>	bcconf2	BC_CONF_BS21_T_300
<B>	bcpara2	BC_PARA_BS21_T_300
<B>	cause	MNCC_CAUSE_SUCCESS
<C>	bcconf	BC_CONF_SPEECH_FR_HR_EFR
<C>	bcpara	BC_PARA_SPEECH

<C>	bcconf2	BC_CONF_NO_SERVICE
<C>	bcpara2	BC_PARA_UNSUPP
<C>	cause	
MNCC_CAUSE_MS_INCOMPAT_DEST		
History:	14-Mar-00	HM Initial
	10-Jul-01	JHU Converted to TAP2

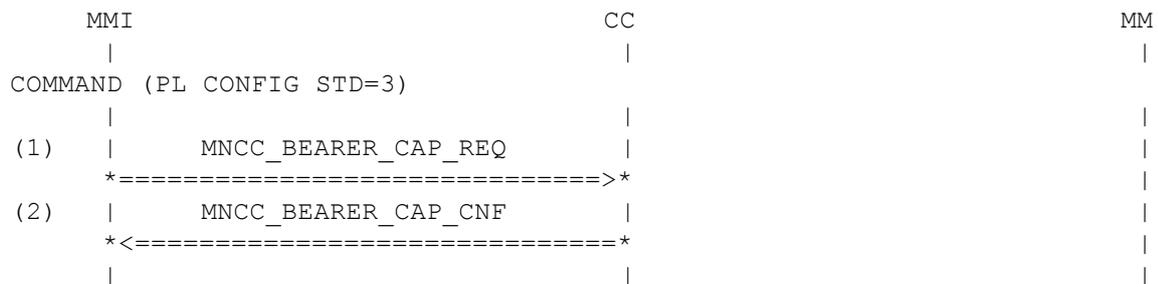
### 3.7.103 CC601: Bearer capability decoding

**Description:** The ACI requests decoding of bearer capabilities. This may be done in any state. The mobile station is configured for HR, FR and EFR support.

- A: One valid bearer capability parameter
- B: Two valid bearer capability parameters
- C: Second bearer capability invalid (not supported yet)

**Preamble:** CC001B

**Variants:** <A> ... <C>



#### Parametrization

Primitive	Parameter	Value
(1) MNCC_BEARER_CAP_REQ	req_id	REQ_ID_5
	bc_mod	BC_MOD_DECODE
<A>	bcconf	BC_CONF_SPEECH_FR_HR_EFR
<A>	bcpara	NOT_USED
<A>	bcconf2	BC_CONF_NO_SERVICE
<A>	bcpara2	NOT_USED
<B>	bcconf	BC_CONF_SPEECH_FR_HR_EFR
<B>	bcpara	NOT_USED
<B>	bcconf2	BC_CONF_BS21_T_300
<B>	bcpara2	NOT_USED
<C>	bcconf	BC_CONF_SPEECH_FR_HR_EFR
<C>	bcpara	NOT_USED
<C>	bcconf2	BC_CONF_PACKET_UNSUPP
<C>	bcpara2	NOT_USED
(10) MNCC_BEARER_CAP_CNF	req_id	REQ_ID_5

	bc_mod	BC_MOD_DECODE
<A>	bcconf	BC_CONF_SPEECH_FR_HR_EFR
<A>	bcpara	BC_PARA_SPEECH
<A>	bcconf2	BC_CONF_NO_SERVICE
<A>	bcpara2	BC_PARA_NO_SERVICE
<A>	cause	MNCC_CAUSE_SUCCESS
<B>	bcconf	BC_CONF_SPEECH_FR_HR_EFR
<B>	bcpara	BC_PARA_SPEECH
<B>	bcconf2	BC_CONF_BS21_T_300
<B>	bcpara2	BC_PARA_BS21_T_300
<B>	cause	MNCC_CAUSE_SUCCESS
<C>	bcconf	BC_CONF_SPEECH_FR_HR_EFR
<C>	bcpara	BC_PARA_SPEECH
<C>	bcconf2	BC_CONF_PACKET_UNSUPP
<C>	bcpara2	BC_PARA_NO_SERVICE
<C>	cause	

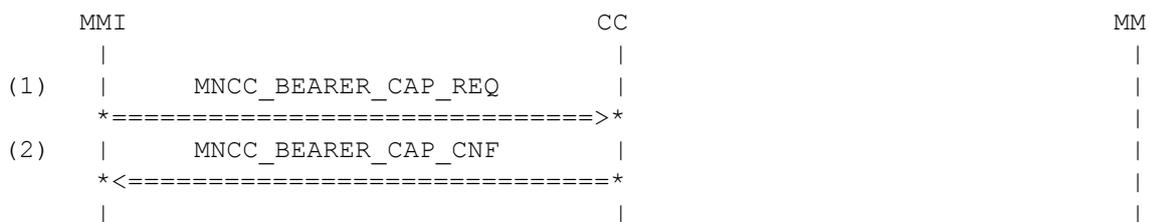
MNCC\_CAUSE\_MS\_INCOMPAT\_DEST

History:            14-Mar-00            HM            Initial  
                     10-Jul-01            JHU            Converted to TAP2

### 3.7.104 CC602: Bearer capability decoding, successful

**Description:**    The ACI requests decoding of bearer capabilities. This may be done in any state. The bearer capabilities are indicating HR, FR and EFR. The mobile station is configured for FR support only. Successful conversion is expected, the call will be downgraded.

**Preamble:**        CC000



#### Parametrization

Primitive	Parameter	Value
(2) MNCC_BEARER_CAP_REQ	req_id	REQ_ID_5
	bc_mod	BC_MOD_DECODE
	bcconf	BC_CONF_SPEECH_FR_HR_EFR
	bcpara	NOT_USED
	bcconf2	BC_CONF_NO_SERVICE
	bcpara2	NOT_USED

(3) MNCC\_BEARER\_CAP\_CNF

req_id	REQ_ID_5
bc_mod	BC_MOD_DECODE
bcconf	BC_CONF_SPEECH_FR_HR_EFR
bcpara	BC_PARA_SPEECH
bcconf2	BC_CONF_NO_SERVICE
bcpara2	BC_PARA_NO_SERVICE
cause	MNCC_CAUSE_SUCCESS

History:	14-Mar-00	HM	Initial
	10-Jul-01	JHU	Converted to TAP2

### 3.8 DTMF Handling

#### 3.8.1 CC610: Customer reported problem with DTMF with manual DTMF start/stop

**Description:** The ACI requests sending of DTMF tones in a very fast manner. The buffer in CC has a buffer overflow. This caused drop of a STOP DTMF request and thus sending of two START DTMF requests in sequence. This is incorrectly and caused some networks not to place the call on hold. The code was changed in a way that it is ensured that no START DTMF is written to the buffer if it cannot be ensured that a STOP DTMF can be written. Also it is ensured that no two STOP DTMF requests can be written in sequence. To test this, DTMF\_BUF\_SIZE has to be decreased to 3, which means there will be room for 2 elements in the buffer. Otherwise the test will fail and this is perfectly ok. All dropped primitives are marked by a "\*" in the paramter.

**Preamble:** CC032

MMI	CC	MM
(1)	MNCC_START_DTMF_REQ (DTMF_MODE_MAN_START)	
	*=====>*	
(2)		MMCC_DATA_REQ (START DTMF)
		*=====>*
(3)	MNCC_START_DTMF_REQ (DTMF_MODE_MAN_STOP)	
	*=====>*	
(4)	MNCC_START_DTMF_REQ (DTMF_MODE_MAN_START *)	
	*=====>*	
(5)	MNCC_START_DTMF_CNF (cause: DTMF_BUFFER_FULL)	
	*<=====*	
(6)	MNCC_START_DTMF_REQ (DTMF_MODE_MAN_STOP *)	
	*=====>*	
(7)		MMCC_DATA_IND (START DTMF ACK)
		*<=====*
(8)	MNCC_START_DTMF_CNF	
	*<=====*	
(9)		MMCC_DATA_REQ (STOP DTMF)
		*=====>*
(10)	MNCC_START_DTMF_REQ (DTMF_MODE_MAN_START)	
	*=====>*	
(11)	MNCC_START_DTMF_REQ (DTMF_MODE_MAN_STOP)	
	*=====>*	
(12)	MNCC_START_DTMF_REQ (DTMF_MODE_MAN_STOP *)	
	*=====>*	
(13)		MMCC_DATA_IND (STOP DTMF ACK)

```

(14) | | *<=====
      | | MMCC_DATA_REQ |
      | | (START DTMF) |
      | | *=====>*
(15) | | MMCC_DATA_IND |
      | | (START DTMF ACK) |
      | | *<=====
(16) | MNCC_START_DTMF_CNF |
      *<=====
(17) | | MMCC_DATA_REQ |
      | | (STOP DTMF) |
      | | *=====>*
(18) | | MMCC_DATA_IND |
      | | (STOP DTMF ACK) |
      | | *<=====
MUTE (3000)
(19) | MNCC_START_DTMF_REQ |
      | (DTMF_MODE_MAN_START) |
      *=====>*
(20) | | MMCC_DATA_REQ |
      | | (START DTMF) |
      | | *=====>*
(21) | | MMCC_DATA_IND |
      | | (START DTMF ACK) |
      | | *<=====
(22) | MNCC_START_DTMF_CNF |
      *<=====
MUTE (3000)
(23) | MNCC_START_DTMF_REQ |
      | (DTMF_MODE_MAN_STOP) |
      *=====>*
(24) | | MMCC_DATA_REQ |
      | | (STOP DTMF) |
      | | *=====>*
(25) | | MMCC_DATA_IND |
      | | (STOP DTMF ACK) |
      | | *<=====
MUTE (3000)

```

**Parametrization**

Primitive	Parameter	Value
(1) MNCC_START_DTMF_REQ	ti	TI_MO_5
	key	DIG_9
	dtmf_mod	DTMF_MOD_MAN_START
(2) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK

	pd	U_START_DTMF
	ti	TI_MO_5
	key_facility	KEY_FACILITY_9
	}	
( 3 )	MNCC_START_DTMF_REQ	
	ti	TI_MO_5
	key	DIG_9
	dtmf_mod	DTMF_MOD_MAN_STOP
( 4 )	MNCC_START_DTMF_REQ	
	ti	TI_MO_5
	key	DIG_9
	dtmf_mod	DTMF_MOD_MAN_START
( 5 )	MNCC_START_DTMF_CNF	
	ti	TI_MO_5
	key	DIG_9
	cause	
	MNCC_CAUSE_DTMF_BUFFER_FULL	
	dtmf_mod	DTMF_MOD_MAN_START
( 6 )	MNCC_START_DTMF_REQ	
	ti	TI_MO_5
	key	DIG_9
	dtmf_mod	DTMF_MOD_MAN_STOP
( 7 )	MMCC_DATA_IND	
	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_START_DTMF_ACK
	ti	TI_MO_5_RESP
	key_facility	KEY_FACILITY_9
	}	
( 8 )	MNCC_START_DTMF_CNF	
	ti	TI_MO_5
	key	DIG_9
	cause	
	MNCC_CAUSE_DTMF_START_SUCCESS	
	dtmf_mod	DTMF_MOD_MAN_START
( 9 )	MMCC_DATA_REQ	
	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK

	pd	U_STOP_DTMF
	ti	TI_MO_5
	}	
(10) MNCC_START_DTMF_REQ		
	ti	TI_MO_5
	key	DIG_9
	dtmf_mod	DTMF_MOD_MAN_START
(11) MNCC_START_DTMF_REQ		
	ti	TI_MO_5
	key	DIG_9
	dtmf_mod	DTMF_MOD_MAN_STOP
(12) MNCC_START_DTMF_REQ		
	ti	TI_MO_5
	key	DIG_9
	dtmf_mod	DTMF_MOD_MAN_STOP
(13) MMCC_DATA_IND		
	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_STOP_DTMF_ACK
	ti	TI_MO_5_RESP
	}	
(14) MMCC_DATA_REQ		
	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_START_DTMF
	ti	TI_MO_5
	key_facility	KEY_FACILITY_9
	}	
(15) MMCC_DATA_IND		
	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_START_DTMF_ACK
	ti	TI_MO_5_RESP

	key_facility }	KEY_FACILITY_9
(16) MNCC_START_DTMF_CNF	ti key cause MNCC_CAUSE_DTMF_START_SUCCESS dtmf_mod	TI_MO_5 DIG_9  DTMF_MOD_MAN_START
(17) MMCC_DATA_REQ	d1 d2 sdu { component direction pd ti }	NOT_USED NOT_USED  CC UPLINK U_STOP_DTMF TI_MO_5
(18) MMCC_DATA_IND	d1 d2 sdu { component direction pd ti }	NOT_USED NOT_USED  CC DOWNLINK D_STOP_DTMF_ACK TI_MO_5_RESP
(19) MNCC_START_DTMF_REQ	ti key dtmf_mod	TI_MO_5 DIG_9 DTMF_MOD_MAN_START
(20) MMCC_DATA_REQ	d1 d2 sdu { component direction pd ti key_facility }	NOT_USED NOT_USED  CC UPLINK U_START_DTMF TI_MO_5 KEY_FACILITY_9
(21) MMCC_DATA_IND	d1 d2	NOT_USED NOT_USED

		sdu	
		{	
		component	CC
		direction	DOWNLINK
		pd	D_START_DTMF_ACK
		ti	TI_MO_5_RESP
		key_facility	KEY_FACILITY_9
		}	
(22)	MNCC_START_DTMF_CNF		
		ti	TI_MO_5
		key	DIG_9
		cause	
	MNCC_CAUSE_DTMF_START_SUCCESS		
		dtmf_mod	DTMF_MOD_MAN_START
(23)	MNCC_START_DTMF_REQ		
		ti	TI_MO_5
		key	DIG_9
		dtmf_mod	DTMF_MOD_MAN_STOP
(24)	MMCC_DATA_REQ		
		d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	U_STOP_DTMF
		ti	TI_MO_5
		}	
(25)	MMCC_DATA_IND		
		d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	DOWNLINK
		pd	D_STOP_DTMF_ACK
		ti	TI_MO_5_RESP
		}	
History:	05-Apr-00	HM	Initial
	10-Jul-01	JHU	Converted to TAP2

### 3.8.2 CC611: Customer reported problem with DTMF in far east country

**Description:** The ACI requests sending of DTMF tones. The network doesn't send acknowledgements sometimes. After timeout of either T336 or T337 the request is forgotten and a new request can be started.

**Preamble:** CC032

	MMI	CC	MM
(1)	MNCC_START_DTMF_REQ   (DTMF_MODE_MAN_START)		
	*=====>*		
(2)		MMCC_DATA_REQ   (START DTMF)	
		*=====>*	
(3)	MNCC_START_DTMF_REQ   (DTMF_MODE_MAN_STOP)		
	*=====>*		
(4)	MNCC_START_DTMF_REQ   (DTMF_MODE_MAN_START *)		
	*=====>*		
(5)	MNCC_START_DTMF_CNF   (cause: DTMF_BUFFER_FULL)		
	*<=====*		
(6)	MNCC_START_DTMF_REQ   (DTMF_MODE_MAN_STOP *)		
	*=====>*		
MUTE (9000)			
(7)	MNCC_START_DTMF_CNF		
	*<=====*		
(8)	MNCC_START_DTMF_REQ   (DTMF_MODE_MAN_START)		
	*=====>*		
(9)	MNCC_START_DTMF_REQ   (DTMF_MODE_MAN_STOP)		
	*=====>*		
(10)	MNCC_START_DTMF_REQ   (DTMF_MODE_MAN_STOP *)		
	*=====>*		
(11)		MMCC_DATA_REQ   (START DTMF)	
		*=====>*	
(12)		MMCC_DATA_IND   (START DTMF ACK)	
		*<=====*	
(13)	MNCC_START_DTMF_CNF		
	*<=====*		
(14)		MMCC_DATA_REQ   (STOP DTMF)	
		*=====>*	
MUTE (9000)			
(15)	MNCC_START_DTMF_REQ   (DTMF_MODE_MAN_START)		
	*=====>*		
(16)		MMCC_DATA_REQ   (START DTMF)	
		*=====>*	

```

(17) | | MMCC_DATA_IND | |
      | | (START DTMF ACK) | |
      | | *<===== | |
(18) | MNCC_START_DTMF_CNF | |
      | *<===== | |
MUTE (3000)
(19) | MNCC_START_DTMF_REQ | |
      | (DTMF_MODE_MAN_STOP) | |
      | *=====> | |
(20) | | MMCC_DATA_REQ | |
      | | (STOP DTMF) | |
      | | *=====> | |
(21) | | MMCC_DATA_IND | |
      | | (STOP DTMF ACK) | |
      | | *<===== | |
MUTE (3000)
      | | | |
    
```

**Parametrization**

Primitive	Parameter	Value
(1) MNCC_START_DTMF_REQ	ti	TI_MO_5
	key	DIG_9
	dtmf_mod	DTMF_MOD_MAN_START
(2) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_START_DTMF
	ti	TI_MO_5
	key_facility	KEY_FACILITY_9
	}	
(3) MNCC_START_DTMF_REQ	ti	TI_MO_5
	key	DIG_9
	dtmf_mod	DTMF_MOD_MAN_STOP
(4) MNCC_START_DTMF_REQ	ti	TI_MO_5
	key	DIG_9
	dtmf_mod	DTMF_MOD_MAN_START
(5) MNCC_START_DTMF_CNF	ti	TI_MO_5
	key	DIG_9
	cause	MNCC_CAUSE_DTMF_BUFFER_FULL

	dtmf_mod	DTMF_MOD_MAN_START
(6) MNCC_START_DTMF_REQ	ti	TI_MO_5
	key	DIG_9
	dtmf_mod	DTMF_MOD_MAN_STOP
(7) MNCC_START_DTMF_CNF	ti	TI_MO_5
	key	DIG_9
	cause	MNCC_CAUSE_MS_TIMER
	dtmf_mod	DTMF_MOD_MAN_START
(8) MNCC_START_DTMF_REQ	ti	TI_MO_5
	key	DIG_9
	dtmf_mod	DTMF_MOD_MAN_START
(9) MNCC_START_DTMF_REQ	ti	TI_MO_5
	key	DIG_9
	dtmf_mod	DTMF_MOD_MAN_STOP
(10) MNCC_START_DTMF_REQ	ti	TI_MO_5
	key	DIG_9
	dtmf_mod	DTMF_MOD_MAN_STOP
(11) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_START_DTMF
	ti	TI_MO_5
	key_facility	KEY_FACILITY_9
	}	
(12) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_START_DTMF_ACK
	ti	TI_MO_5_RESP
	key_facility	KEY_FACILITY_9
	}	

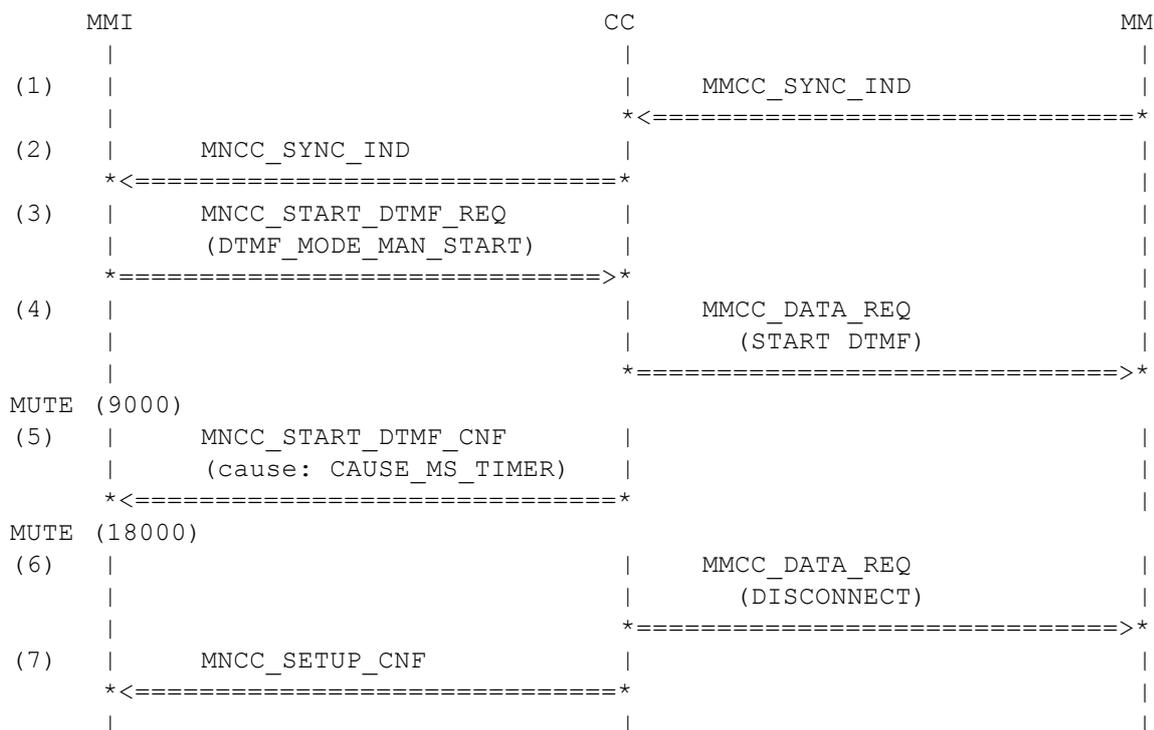
(13)	MNCC_START_DTMF_CNF	ti	TI_MO_5
		key	DIG_9
		cause	
	MNCC_CAUSE_DTMF_START_SUCCESS		
		dtmf_mod	DTMF_MOD_MAN_START
(14)	MMCC_DATA_REQ	d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	U_STOP_DTMF
		ti	TI_MO_5
		}	
(15)	MNCC_START_DTMF_REQ	ti	TI_MO_5
		key	DIG_9
		dtmf_mod	DTMF_MOD_MAN_START
(16)	MMCC_DATA_REQ	d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	U_START_DTMF
		ti	TI_MO_5
		key_facility	KEY_FACILITY_9
		}	
(17)	MMCC_DATA_IND	d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	DOWNLINK
		pd	D_START_DTMF_ACK
		ti	TI_MO_5_RESP
		key_facility	KEY_FACILITY_9
		}	
(18)	MNCC_START_DTMF_CNF	ti	TI_MO_5
		key	DIG_9
		cause	

	MNCC_CAUSE_DTMF_START_SUCCESS		
		dtmf_mod	DTMF_MOD_MAN_START
(19)	MNCC_START_DTMF_REQ		
		ti	TI_MO_5
		key	DIG_9
		dtmf_mod	DTMF_MOD_MAN_STOP
(20)	MMCC_DATA_REQ		
		d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	U_STOP_DTMF
		ti	TI_MO_5
		}	
(21)	MMCC_DATA_IND		
		d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	DOWNLINK
		pd	D_STOP_DTMF_ACK
		ti	TI_MO_5_RESP
		}	
History:	27-Jun-00	HM	Initial
	10-Jul-01	JHU	Converted to TAP2
	14-Dec-01	SBK	Substituted timeout by mute properly.

### 3.8.3 CC612: DTMF start attempt in state U3

**Description:** The ACI requests sending of DTMF tones in state U3. It is a speech call, the TCH is assigned and the progress indicator IE has been received in the CALL PROCEEDING message. It is assumed DTMF is allowed in this state as the conditions of GSM 04.08 subclause 5.5.7 are met. Timer T310 is running, after DTMF START REQUEST sent also T336 in parallel. As no stop conditions for either timer will be met, both timers will timeout. This testcase tests two things: First, whether DTMF works in state U3 as desired, and second whether the parallel operation of timers in the call control entity is working at all.

**Preamble:** CC026A



#### Parametrization

Primitive	Parameter	Value
(1) MMCC_SYNC_IND	ti	TI_MO_5
	chm	CH_SPEECH_FULL
(2) MNCC_SYNC_IND	ti	TI_MO_5
	cause	MNCC_CAUSE_CHANNEL_SYNC
	chm	CH_SPEECH_FULL
(3) MNCC_START_DTMF_REQ	ti	TI_MO_5
	key	DIG_9
	dtmf_mod	DTMF_MOD_MAN_START

( 4 )	MMCC_DATA_REQ	d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	U_START_DTMF
		ti	TI_MO_5
		key_facility	KEY_FACILITY_9
		}	
( 5 )	MNCC_START_DTMF_CNF	ti	TI_MO_5
		key	DIG_9
		cause	MNCC_CAUSE_MS_TIMER
		dtmf_mod	DTMF_MOD_MAN_START
( 6 )	MMCC_DATA_REQ	d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	U_DISCONNECT
		ti	TI_MO_5
		cc_cause	CC_CAUSE_TIMER_310
		facility	NOT_USED
		user_user	NOT_USED
		ss_version	NOT_USED
		}	
( 7 )	MNCC_SETUP_CNF	ti	TI_MO_5
		cause	MNCC_CAUSE_MS_TIMER
		progress_desc	NOT_USED
		connected_number	NOT_USED
		connected_number_sub	NOT_USED

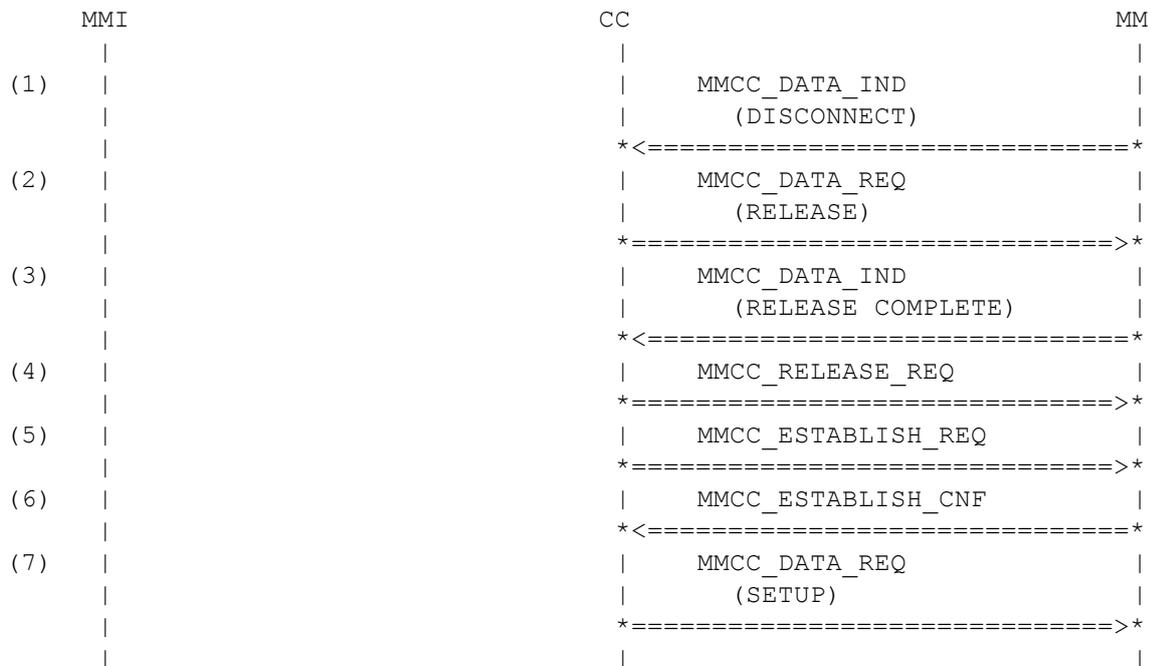
History:	12-Oct-00	HM	Initial
	10-Jul-01	JHU	Converted to TAP2
	14-Dec-01	SBK	Substituted timeout by mute properly.
	26-Nov-01	OT	Variant CC026A instead of CC026

### 3.9 Disconnect with poor network

#### 3.9.1 CC620: DISCONNECT in state U1 with poor network

**Description:** While in the state CALL INIT (U1) CC receives a DISCONNECT message with certain causes. The selected network is well known as of poor quality. The stack tries to establish the MO connection for a second time.

**Preamble:** CC021



#### Parametrization

Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_DISCONNECT
	ti	TI_MO_5_RESP
	cc_cause	CC_CAUSE_TEMP_FAIL
	facility	NOT_USED
	progress	NOT_USED
	user_user	NOT_USED
	}	
	(2) MMCC_DATA_REQ	d1
d2		NOT_USED
sdu		

	{	
	component	CC
	direction	UPLINK
	pd	U_RELEASE
	ti	TI_MO_5
	cc_cause	NOT_USED
	cc_cause_2	NOT_USED
	facility	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	}	
(3)	MMCC_DATA_IND	
	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_RELEASE_COMP
	ti	TI_MO_5_RESP
	cc_cause	CC_CAUSE_TEMP_FAIL
	facility	NOT_USED
	user_user	NOT_USED
	}	
(4)	MMCC_RELEASE_REQ	
	ti	TI_MO_5
(5)	MMCC_ESTABLISH_REQ	
	ti	TI_MO_5
	estcs	ESTCS_MOB_ORIG_DATA
(6)	MMCC_ESTABLISH_CNF	
	ti	TI_MO_5
(7)	MMCC_DATA_REQ	
	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_SETUP
	ti	TI_MO_5
	repeat	NOT_USED
	bearer_cap	BC_BS21_T_300
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	calling_subaddr	NOT_USED
	ul_called_num	UL_CLED_NUM_654321
	called_subaddr	NOT_USED

repeat_2	NOT_USED
low_layer_comp	NOT_USED
low_layer_comp_2	NOT_USED
repeat_3	NOT_USED
high_layer_comp	NOT_USED
high_layer_comp_2	NOT_USED
user_user	NOT_USED
ss_version	NOT_USED
clir_suppr	NOT_USED
clir_invoc	NOT_USED
call_ctrl_cap	CALL_CTRL_CAP_1
}	

History:	27-Jun-00	HM	Initial
	10-Jul-01	JHU	Converted to TAP2

### 3.9.2 CC621: DISCONNECT in state U1 with poor network, bad release sequence

**Description:** While in the state CALL INIT (U1) CC receives a DISCONNECT message with certain causes. The selected network is well known as of poor quality. The stack tries to establish the MO connection for a second time.

**Preamble:** CC021

	MMI		CC		MM
(1)					
				MMCC_DATA_IND	
				(DISCONNECT)	
				*<=====*	
(2)				MMCC_DATA_REQ	
				(RELEASE)	
				*=====>*	
(3)				MMCC_RELEASE_IND	
				*<=====*	
(4)				MMCC_ESTABLISH_REQ	
				*=====>*	
(5)				MMCC_ESTABLISH_CNF	
				*<=====*	
(6)				MMCC_DATA_REQ	
				(SETUP)	
				*=====>*	

**Parametrization**

	<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1)	MMCC_DATA_IND	d1	NOT_USED
		d2	NOT_USED
		sdu	{
		component	CC
		direction	DOWNLINK
		pd	D_DISCONNECT
		ti	TI_MO_5_RESP
		cc_cause	CC_CAUSE_TEMP_FAIL
		facility	NOT_USED
		progress	NOT_USED
		user_user	NOT_USED
			}
(2)	MMCC_DATA_REQ	d1	NOT_USED
		d2	NOT_USED
		sdu	{
		component	CC
		direction	UPLINK
		pd	U_RELEASE

		ti	TI_MO_5
		cc_cause	NOT_USED
		cc_cause_2	NOT_USED
		facility	NOT_USED
		user_user	NOT_USED
		ss_version	NOT_USED
		}	
(3)	MMCC_RELEASE_IND		
		ti	TI_MO_5
		cause	RRCS_NORM
(4)	MMCC_ESTABLISH_REQ		
		ti	TI_MO_5
		estcs	ESTCS_MOB_ORIG_DATA
(5)	MMCC_ESTABLISH_CNF		
		ti	TI_MO_5
(6)	MMCC_DATA_REQ		
		d1	NOT_USED
		d2	NOT_USED
		sdu	
		{	
		component	CC
		direction	UPLINK
		pd	U_SETUP
		ti	TI_MO_5
		repeat	NOT_USED
		bearer_cap	BC_BS21_T_300
		bearer_cap_2	NOT_USED
		facility	NOT_USED
		calling_subaddr	NOT_USED
		ul_called_num	UL_CLED_NUM_654321
		called_subaddr	NOT_USED
		repeat_2	NOT_USED
		low_layer_comp	NOT_USED
		low_layer_comp_2	NOT_USED
		repeat_3	NOT_USED
		high_layer_comp	NOT_USED
		high_layer_comp_2	NOT_USED
		user_user	NOT_USED
		ss_version	NOT_USED
		clir_suppr	NOT_USED
		clir_invoc	NOT_USED
		call_ctrl_cap	CALL_CTRL_CAP_1
		}	
History:	27-Jun-00	HM	Initial
	10-Jul-01	JHU	Converted to TAP2

### 3.9.3 CC622: DISCONNECT in state U3 with poor network

**Description:** While in the state MO CALL PROCEEDING (U3) CC receives a DISCONNECT message with certain causes. The selected network is well known as of poor quality. The stack tries to establish the MO connection for a second time. There

**Preamble:** CC054

MMI	CC	MM
(1)	MMCC_DATA_IND	
	(DISCONNECT)	
	*<=====*	
(2)	MMCC_DATA_REQ	
	(RELEASE)	
	*=====>*	
(3)	MMCC_DATA_IND	
	(RELEASE COMPLETE)	
	*<=====*	
(4)	MMCC_RELEASE_REQ	
	*=====>*	
(5)	MMCC_ESTABLISH_REQ	
	*=====>*	
(6)	MMCC_ESTABLISH_CNF	
	*<=====*	
(7)	MMCC_DATA_REQ	
	(SETUP)	
	*=====>*	

**Parametrization**

<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_DISCONNECT
	ti	TI_MO_5_RESP
	cc_cause	CC_CAUSE_TEMP_FAIL
	facility	NOT_USED
	progress	NOT_USED
	user_user	NOT_USED
	}	
(2) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC

	direction	UPLINK
	pd	U_RELEASE
	ti	TI_MO_5
	cc_cause	NOT_USED
	cc_cause_2	NOT_USED
	facility	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	}	
(3)	MMCC_DATA_IND	
	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_RELEASE_COMP
	ti	TI_MO_5_RESP
	cc_cause	CC_CAUSE_TEMP_FAIL
	facility	NOT_USED
	user_user	NOT_USED
	}	
(4)	MMCC_RELEASE_REQ	
	ti	TI_MO_5
(5)	MMCC_ESTABLISH_REQ	
	ti	TI_MO_5
	estcs	ESTCS_MOB_ORIG_DATA
(6)	MMCC_ESTABLISH_CNF	
	ti	TI_MO_5
(7)	MMCC_DATA_REQ	
	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_SETUP
	ti	TI_MO_5
	repeat	NOT_USED
	bearer_cap	BC_BS21_T_300
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	calling_subaddr	NOT_USED
	ul_called_num	UL_CLED_NUM_654321
	called_subaddr	NOT_USED
	repeat_2	NOT_USED
	low_layer_comp	NOT_USED



<B>	bcpara	BC_PARA_BS26_BOTH_T_9600
<C>	bcpara	BC_PARA_BS26_BOTH_NT_9600
<D>	bcpara	BC_PARA_BS26_BOTH_NT_9600
	bcpara2	BC_PARA_NO_SERVICE
	called_party	CLED_PARTY_654321
	called_party_sub	CLED_PARTY_SUB_NONE
	clir_sup	NOT_PRESENT_8BIT
	fac_inf	NOT_USED
(2) MMCC_ESTABLISH_REQ	ti	TI_MO_5
	estcs	ESTCS_MOB_ORIG_DATA
(3) MMCC_ESTABLISH_CNF	ti	TI_MO_5
(4) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_SETUP
	ti	TI_MO_5
	repeat	NOT_USED
<A>	bearer_cap	BC_BS26_BOTH_T_9600
<B>	bearer_cap	BC_BS26_BOTH_T_9600
<C>	bearer_cap	BC_BS26_BOTH_NT_9600
<D>	bearer_cap	BC_BS26_BOTH_NT_9600
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	calling_subaddr	NOT_USED
	ul_called_num	UL_CLED_NUM_654321
	called_subaddr	NOT_USED
	repeat_2	NOT_USED
	low_layer_comp	NOT_USED
	low_layer_comp_2	NOT_USED
	repeat_3	NOT_USED
	high_layer_comp	NOT_USED
	high_layer_comp_2	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	clir_suppr	NOT_USED
	clir_invoc	NOT_USED
	call_ctrl_cap	CALL_CTRL_CAP_1
	}	
(5) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED

	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_CALL_PROCEED
	ti	TI_MO_5_RESP
	repeat	NOT_USED
<A>	bearer_cap	BC_BS26_T_9600
<B>	bearer_cap	BC_BS26_NT_9600A
<C>	bearer_cap	BC_BS26_NT_9600A
<D>	bearer_cap	BC_BS26_T_9600
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	}	

(6) MNCC\_CALL\_PROCEED\_IND

	ti	TI_MO_5
	progress_desc	PROG_END_TO_END_PLMN
	ri	NOT_PRESENT_8BIT
<A>	bcpara	BC_PARA_BS26_T_9600
<B>	bcpara	BC_PARA_BS26_NT_9600A
<C>	bcpara	BC_PARA_BS26_NT_9600A
<D>	bcpara	BC_PARA_BS26_T_9600
	bcpara2	BC_PARA_NO_SERVICE

History: 10-Sept-01 JK Initial

**3.10.2 CC655: MOC, BS61, Alternate Speech/Data, CE both, RI CIRCULAR**

**Description:** A mobile originated call is started for both transparent preferred asynchronous data with 9.6 kBit/s. This is bearer service 26. The data service is supported in PCS 1900 range by the PC version. A CE both is negotiated to transparent or non transparent by the network.

**Variants:** <A>..<B>

**Preamble:** CC000

MMI	CC	MM
COMMAND (PL CONFIG STD=3)		
(1)   MNCC_SETUP_REQ		
*=====>*		
(2)	MMCC_ESTABLISH_REQ	
	*=====>*	
(3)	MMCC_ESTABLISH_CNF	
	*<=====*	
(4)	MMCC_DATA_REQ	
	(SETUP)	
	*=====>*	
(5)	MMCC_DATA_IND	
	(CALL PROCEEDING)	
	*<=====*	

```
(6) | MNCC_CALL_PROCEED_IND | |
    | *<===== | |
    | | | |
```

**Parametrization**

Primitive	Parameter	Value	
(1) MNCC_SETUP_REQ	ti	TI_MO_5	
	prio	PRIO_NORM_CALL	
	ri	RI_CIRCULAR	
	<A>	bcpara	BC_PARA_BS26_BOTH_T_9600
	<B>	bcpara	BC_PARA_SPEECH
	<A>	bcpara2	BC_PARA_SPEECH
	<B>	bcpara2	BC_PARA_BS26_BOTH_T_9600
		called_party	CLED_PARTY_654321
		called_party_sub	CLED_PARTY_SUB_NONE
		clir_sup	NOT_PRESENT_8BIT
	fac_inf	NOT_USED	
(2) MMCC_ESTABLISH_REQ	ti	TI_MO_5	
	<A>	estcs	ESTCS_MOB_ORIG_DATA
	<B>	estcs	ESTCS_MOB_ORIG_SPCH
(3) MMCC_ESTABLISH_CNF	ti	TI_MO_5	
(4) MMCC_DATA_REQ	d1	NOT_USED	
	d2	NOT_USED	
	sdu		
	{		
	component	CC	
	direction	UPLINK	
	pd	U_SETUP	
	ti	TI_MO_5	
	repeat	RI_CIRCULAR	
	<A>	bearer_cap	BC_BS26_BOTH_T_9600
	<B>	bearer_cap	BC_SPEECH_FR_HR
	<A>	bearer_cap_2	BC_SPEECH_FR_HR
	<B>	bearer_cap_2	BC_BS26_BOTH_T_9600
		facility	NOT_USED
		calling_subaddr	NOT_USED
		ul_called_num	UL_CLED_NUM_654321
		called_subaddr	NOT_USED
		repeat_2	NOT_USED
		low_layer_comp	NOT_USED
		low_layer_comp_2	NOT_USED
	repeat_3	NOT_USED	
	high_layer_comp	NOT_USED	

	high_layer_comp_2	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	clir_suppr	NOT_USED
	clir_invoc	NOT_USED
	call_ctrl_cap	CALL_CTRL_CAP_1
	}	
( 5 )	MMCC_DATA_IND	
	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_CALL_PROCEED
	ti	TI_MO_5_RESP
	repeat	RI_CIRCULAR
<A>	bearer_cap	BC_BS26_T_9600
<B>	bearer_cap	BC_SPEECH_FR_HR
<A>	bearer_cap_2	BC_SPEECH_FR_HR
<B>	bearer_cap_2	BC_BS26_T_9600
	facility	NOT_USED
	progress	PROG_1
	}	
( 6 )	MNCC_CALL_PROCEED_IND	
	ti	TI_MO_5
	progress_desc	PROG_END_TO_END_PLMN
	ri	RI_CIRCULAR
<A>	bcpara	BC_PARA_BS26_T_9600
<B>	bcpara	BC_PARA_SPEECH
<A>	bcpara2	BC_PARA_SPEECH
<B>	bcpara2	BC_PARA_BS26_T_9600

History: 14-Sept-01 JK Initial

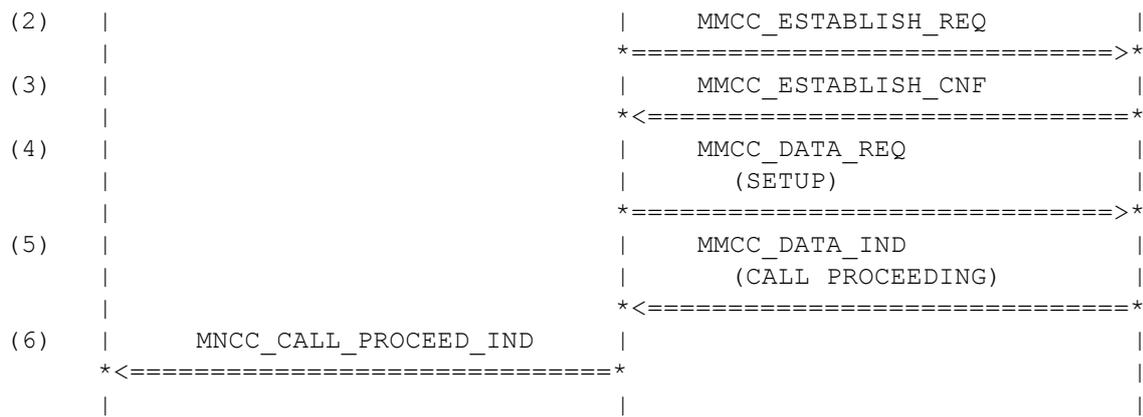
### 3.10.3 CC660: MOC, BS81, Speech followed by Data, CE both, RI SEQUENTIAL

**Description:** A mobile originated call is started for both transparent preferred asynchronous data with 9.6 kBit/s. This is bearer service 26. The data service is supported in PCS 1900 range by the PC version. A CE both is negotiated to transparent or non transparent by the network.

**Variants:** <A>..<B>

**Preamble:** CC000

	MMI		CC		MM
	COMMAND (PL CONFIG STD=3)				
(1)	MNCC_SETUP_REQ				
	*=====>*				



**Parametrization**

Primitive	Parameter	Value
(1) MNCC_SETUP_REQ	ti	TI_MO_5
	prio	PRIO_NORM_CALL
	ri	RI_SEQUENTIAL
	<A> bcpara	BC_PARA_SPEECH
	<B> bcpara	BC_PARA_BS26_BOTH_NT_9600
	<A> bcpara2	BC_PARA_BS26_BOTH_NT_9600
	<B> bcpara2	BC_PARA_SPEECH
	called_party	CLED_PARTY_654321
	called_party_sub	CLED_PARTY_SUB_NONE
	clir_sup	NOT_PRESENT_8BIT
fac_inf	NOT_USED	
(2) MMCC_ESTABLISH_REQ	ti	TI_MO_5
	<A> estcs	ESTCS_MOB_ORIG_SPCH
	<B> estcs	ESTCS_MOB_ORIG_DATA
(3) MMCC_ESTABLISH_CNF	ti	TI_MO_5
(4) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_SETUP
	ti	TI_MO_5
	repeat	RI_SEQUENTIAL
	<A> bearer_cap	BC_SPEECH_FR_HR
	<B> bearer_cap	BC_BS26_BOTH_NT_9600
<A> bearer_cap_2	BC_BS26_BOTH_NT_9600	
<B> bearer_cap_2	BC_SPEECH_FR_HR	
facility	NOT_USED	

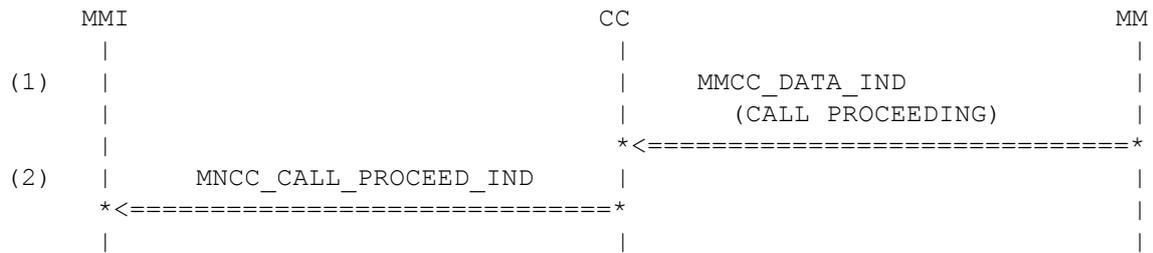
	calling_subaddr	NOT_USED
	ul_called_num	UL_CLED_NUM_654321
	called_subaddr	NOT_USED
	repeat_2	NOT_USED
	low_layer_comp	NOT_USED
	low_layer_comp_2	NOT_USED
	repeat_3	NOT_USED
	high_layer_comp	NOT_USED
	high_layer_comp_2	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	clir_suppr	NOT_USED
	clir_invoc	NOT_USED
	call_ctrl_cap	CALL_CTRL_CAP_1
	}	
( 5 )	MMCC_DATA_IND	
	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_CALL_PROCEED
	ti	TI_MO_5_RESP
	repeat	RI_SEQUENTIAL
<A>	bearer_cap	BC_SPEECH_FR_HR
<B>	bearer_cap	BC_BS26_NT_9600A
<A>	bearer_cap_2	BC_BS26_NT_9600A
<B>	bearer_cap_2	BC_SPEECH_FR_HR
	facility	NOT_USED
	progress	PROG_1
	}	
( 6 )	MNCC_CALL_PROCEED_IND	
	ti	TI_MO_5
	progress_desc	PROG_END_TO_END_PLMN
	ri	RI_SEQUENTIAL
<A>	bcpara	BC_PARA_SPEECH
<B>	bcpara	BC_PARA_BS26_NT_9600A
<A>	bcpara2	BC_PARA_BS26_NT_9600A
<B>	bcpara2	BC_PARA_SPEECH

History: 14-Sept-01 JK Initial

### 3.10.4 CC700: MOC, TS61, Accepted by the network

**Description:** A mobile originated call is started for alternate speech and transparent fax. This is tele service 61. A speech BC was sent first (in preamble Test case CC563). The request is expected to be negotiated with the network.

**Preamble:** CC563C



**Parametrization**

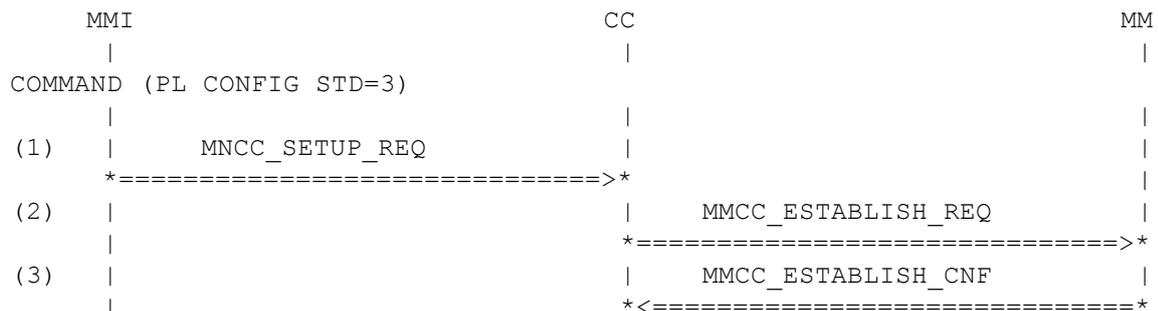
Primitive	Parameter	Value
(1) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_CALL_PROCEED
	ti	TI_MO_5_RESP
	repeat	NOT_USED
	bearer_cap	BC_FAX_T_9600
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	}	
(2) MNCC_CALL_PROCEED_IND	ti	TI_MO_5
	progress_desc	PROG_END_TO_END_PLMN
	ri	NOT_PRESENT_8BIT
	bcpara	BC_PARA_FAX_T_9600
	bcpara2	NOT_USED

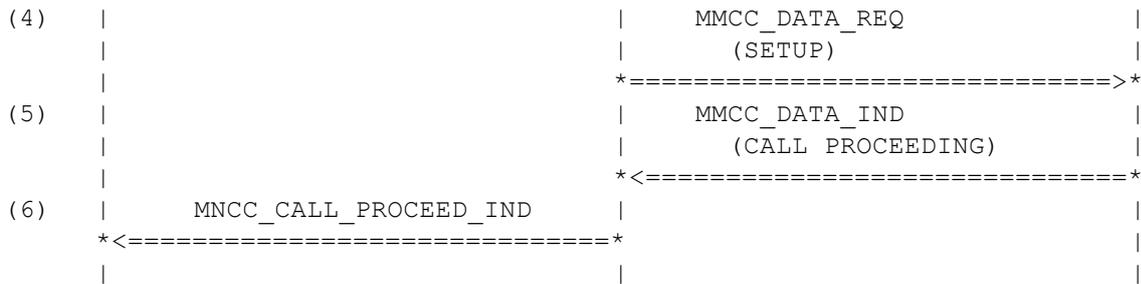
History: 17-Sept-01 JK Initial

**3.10.5 CC705: MOC, TS61/62, Negotiation FAX first**

**Description:** A mobile originated call is started for alternate speech and transparent fax. This is tele service 61/62. A fax BC was sent first. The request is expected to be negotiated with the network.

**Preamble:** CC000





**Parametrization**

Primitive	Parameter	Value
(1) MNCC_SETUP_REQ	ti	TI_MO_5
	prio	PRIO_NORM_CALL
	ri	RI_CIRCULAR
	bcpara	BC_PARA_FAX_T_9600
	bcpara2	BC_PARA_SPEECH
	called_party	CLED_PARTY_654321
	called_party_sub	CLED_PARTY_SUB_NONE
	clir_sup	NOT_PRESENT_8BIT
fac_inf	NOT_USED	
(2) MMCC_ESTABLISH_REQ	ti	TI_MO_5
	estcs	ESTCS_MOB_ORIG_DATA
(3) MMCC_ESTABLISH_CNF	ti	TI_MO_5
(4) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_SETUP
	ti	TI_MO_5
	repeat	RI_CIRCULAR
	bearer_cap	BC_FAX_T_9600
	bearer_cap_2	BC_SPEECH_FR_HR_EFR
	facility	NOT_USED
	calling_subaddr	NOT_USED
	ul_called_num	UL_CLED_NUM_654321
	called_subaddr	NOT_USED
	repeat_2	NOT_USED
low_layer_comp	NOT_USED	
low_layer_comp_2	NOT_USED	
repeat_3	NOT_USED	
high_layer_comp	NOT_USED	

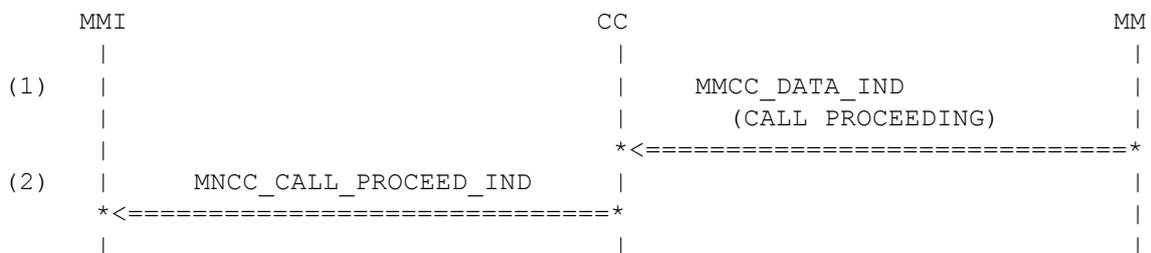
	high_layer_comp_2	NOT_USED
	user_user	NOT_USED
	ss_version	NOT_USED
	clir_suppr	NOT_USED
	clir_invoc	NOT_USED
	call_ctrl_cap	CALL_CTRL_CAP_1
	}	
(5)	MMCC_DATA_IND	
	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_CALL_PROCEED
	ti	TI_MO_5_RESP
	repeat	NOT_USED
	bearer_cap	BC_FAX_T_9600
	bearer_cap_2	NOT_USED
	facility	NOT_USED
	progress	PROG_1
	}	
(6)	MNCC_CALL_PROCEED_IND	
	ti	TI_MO_5
	progress_desc	PROG_END_TO_END_PLMN
	ri	NOT_PRESENT_8BIT
	bcpara	BC_PARA_FAX_T_9600
	bcpara2	BC_PARA_NO_SERVICE

History: 17-Sept-01 JK Initial

### 3.10.6 CC710: MOC, TS61/62, Negotiation Speech first

**Description:** A mobile originated call is started for alternate speech and transparent fax. This is tele service 61/62. A speech BC was sent first (in preamble Test case CC563). The request is expected to be confirmed by the network.

**Preamble:** CC563C



#### Parametrization

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

(1) MMCC\_DATA\_IND

```

d1          NOT_USED
d2          NOT_USED
sdu
{
component   CC
direction   DOWNLINK
pd          D_CALL_PROCEED
ti          TI_MO_5_RESP
repeat      NOT_USED
bearer_cap  NOT_USED
bearer_cap_2 NOT_USED
facility     NOT_USED
progress    PROG_1
}
    
```

(2) MNCC\_CALL\_PROCEED\_IND

```

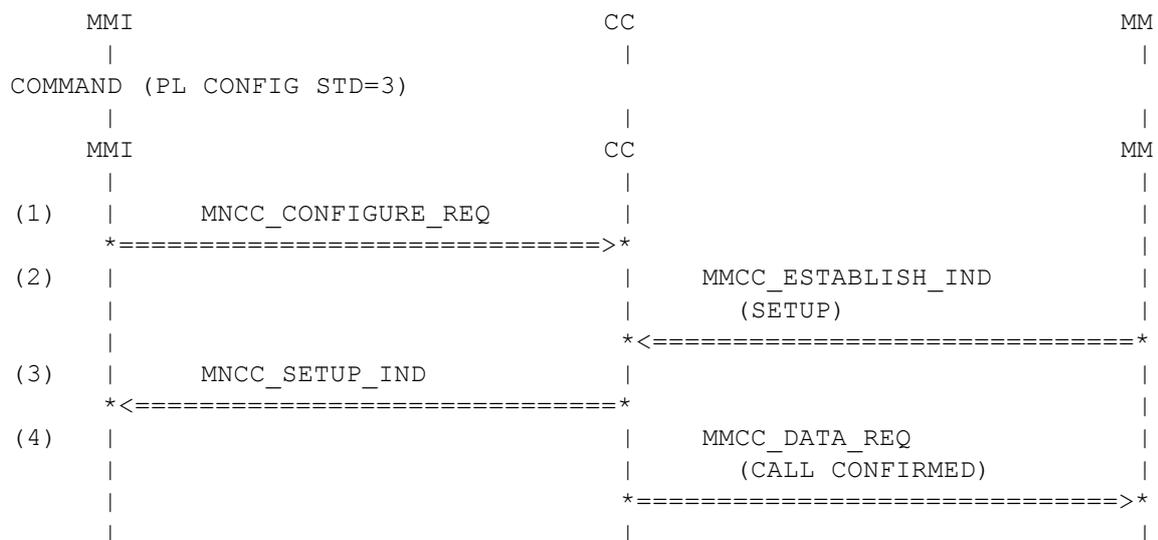
ti          TI_MO_5
progress_desc PROG_END_TO_END_PLMN
ri          NOT_USED
bcpara     NOT_USED
bcpara2    NOT_USED
    
```

History: 17-Sept-01 JK Initial

**3.10.7 CC720: MTC, BS26, 3.1 kHz Audio Non-Transparent 9.6 kBit/s negotiated TEST**

**Description:** A mobile terminated call is started for BS26 (9600 bit/s) in the PCS 1900 range. The PC version supports this data service for PCS 1900. It is expected that the bearer capability is accepted with negotiation. The incoming bearer capability indicates as connection element Both, non-transparent preferred. MS is set to 'transparent', so it is expected, that it selects transparent.

**Preamble:** CC000



**Parametrization**

Primitive	Parameter	Value	
(1) MNCC_CONFIGURE_REQ	called_party_sub	NOT_USED	
	bcpara	BC_PARA_BS26_T_9600B	
	sns_mode	SNS_MODE_DATA	
	ctm_ena	CTM_DISABLED	
(2) MMCC_ESTABLISH_IND	d1	NOT_USED	
	d2	NOT_USED	
	sdu		
	{		
	component	CC	
	direction	DOWNLINK	
	pd	D_SETUP	
	ti	TI_MT_1	
	repeat	NOT_USED	
	bearer_cap	BC_BS26_9600_BNTPT	
	bearer_cap_2	NOT_USED	
	facility	NOT_USED	
	progress	PROG_1	
	signal	SIGNAL_DIAL_ON	
	calling_num	CLNG_NUM_654321	
	calling_subaddr	NOT_USED	
	dl_called_num	DL_CLED_NUM_654321	
	called_subaddr	NOT_USED	
	redirecting_num	NOT_USED	
	redirecting_subaddr	NOT_USED	
	repeat_2	NOT_USED	
	low_layer_comp	NOT_USED	
	low_layer_comp_2	NOT_USED	
	repeat_3	NOT_USED	
	high_layer_comp	NOT_USED	
	high_layer_comp_2	NOT_USED	
	user_user	NOT_USED	
	}		
	(3) MNCC_SETUP_IND	ti	TI_MT_1_RESP
		ri	NOT_PRESENT_8BIT
bcpara		BC_PARA_BS26_T_9600C	
bcpara2		BC_PARA_NO_SERVICE	
progress_desc		PROG_END_TO_END_PLMN	
sig		SIGNAL_DIAL_ON	
calling_party		CLNG_PARTY_654321	
calling_party_sub		NOT_USED	
called_party		CLED_PARTY_654321	
called_party_sub		NOT_USED	

	redirecting_party	REDIR_PARTY_NONE
	redirecting_party_sub	REDIR_PARTY_SUB_NONE
(4)	MMCC_DATA_REQ	
	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
	pd	U_CALL_CONF
	ti	TI_MT_1_RESP
	repeat	NOT_USED
	bearer_cap	BC_BS26_9600_TPT
	bearer_cap_2	NOT_USED
	cc_cause	NOT_USED
	}	

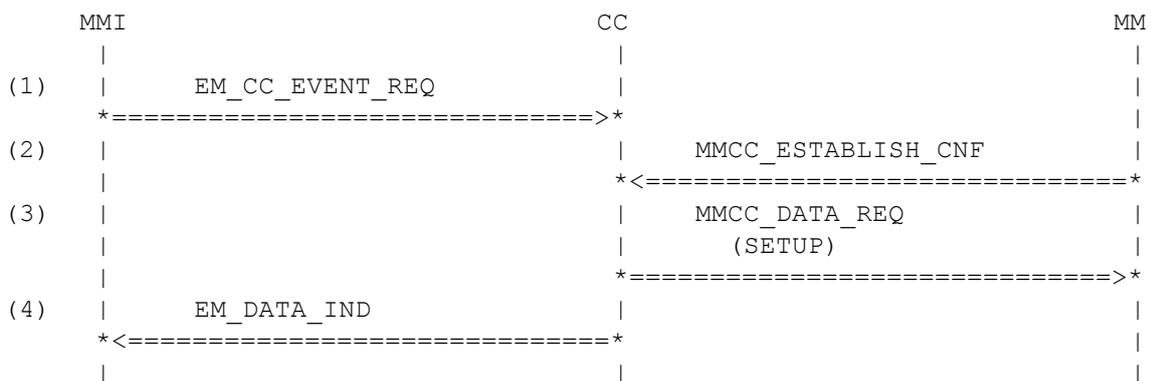
History:	25-Sept-01	JK	Initial
	05-Apr-02	HM	call_ctrl_cap removed as in target
	02-Dec-2002	FK	Parameter 'ctm_ena' added

### 3.11 Engineering Mode

#### 3.11.1 CC750: MM connection established for basic call – data (U0.1)

**Description:** MM signals CC in the form of a MMCC-ESTABLISH confirmation primitive that a connection has been successfully established. CC issues a MMCC-DATA request primitive and enters the state CALL INIT (U1). (Ref. [1] 5.n.n.n)

**Preamble:** CC011



#### Parametrization

	<u>Primitive</u>	<u>Parameter</u>	<u>Value</u>
(1)	EM_CC_EVENT_REQ	bitmask_cc_h	Bitm_H_1
		bitmask_cc_l	Bitm_L_1
(2)	MMCC_ESTABLISH_CNF	ti	TI_MO_5

## (3) MMCC\_DATA\_REQ

d1	NOT_USED
d2	NOT_USED
sdu	
{	
component	CC
direction	UPLINK
pd	U_SETUP
ti	TI_MO_5
repeat	NOT_USED
bearer_cap	BC_BS21_T_300
bearer_cap_2	NOT_USED
facility	NOT_USED
calling_subaddr	NOT_USED
ul_called_num	UL_CLED_NUM_654321
called_subaddr	NOT_USED
repeat_2	NOT_USED
low_layer_comp	NOT_USED
low_layer_comp_2	NOT_USED
repeat_3	NOT_USED
high_layer_comp	NOT_USED
high_layer_comp_2	NOT_USED
user_user	NOT_USED
ss_version	NOT_USED
clir_suppr	NOT_USED
clir_invoc	NOT_USED
call_ctrl_cap	CALL_CTRL_CAP_1
}	

## (4) EM\_DATA\_IND

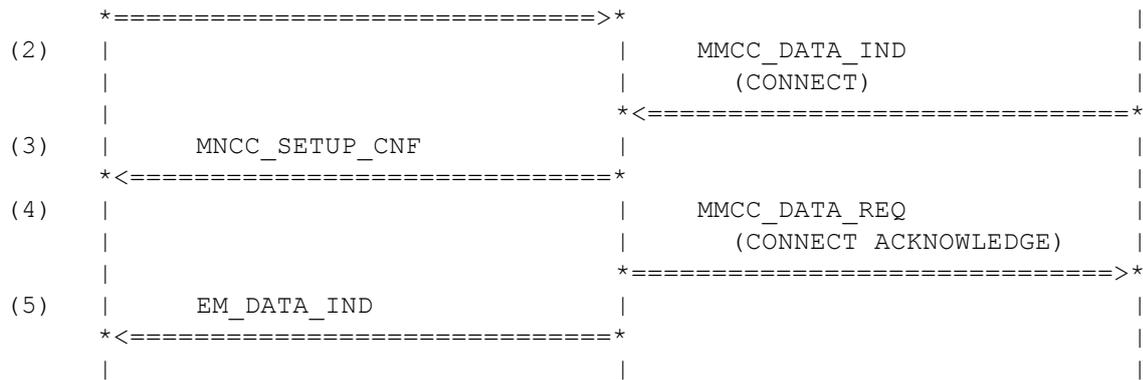
	entity	EM_ENTITY	
History:	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	27-Jul-98	LE	adapted to fax & data
	05-Jul-01	JHU	Converted to TAP2
	23-Oct-01	OT	Adaptations for EM

**3.11.2 CC751: CONNECT message received – speech (U3)**

**Description:** While in the state MO CALL PROCEEDING (U3) CC receives a CONNECT message as part of a MMCC-DATA indication primitive in response to a SETUP message. CC then stops the T303 timer, enters the state ACTIVE (U10) and issues a MNCC-SETUP confirmation primitive to MMI and a CONNECT ACKNOWLEDGE message as part of a MMCC-DATA request primitive to MM. (Ref. [1] 5.2.1.6)

**Preamble:** CC026A

	MMI		CC		MM
(1)		EM_CC_EVENT_REQ			



**Parametrization**

Primitive	Parameter	Value
(1) EM_CC_EVENT_REQ	bitmask_cc_h	Bitm_H_2
	bitmask_cc_l	Bitm_L_2
(2) MMCC_DATA_IND	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	DOWNLINK
	pd	D_CONNECT
	ti	TI_MO_5_RESP
	facility	NOT_USED
	progress	PROG_1
	connect_num	CONNECT_NUM_654321
	connect_subaddr	NOT_USED
	user_user	NOT_USED
	}	
(3) MNCC_SETUP_CNF	ti	TI_MO_5
	cause	MNCC_CAUSE_SUCCESS
	progress_desc	PROG_END_TO_END_PLMN
	connected_number	CONNECTED_NUMBER_654321
	connected_number_sub	NOT_USED
(4) MMCC_DATA_REQ	d1	NOT_USED
	d2	NOT_USED
	sdu	
	{	
	component	CC
	direction	UPLINK
pd	B_CONNECT_ACK	

		ti	TI_MO_5
		}	
( 5 )	EM_DATA_IND	entity	EM_ENTITY
History:	25-Apr-97	DL	Initial
	04-Aug-97	VK	d1,d2 added
	27-Jul-98	LE	adapted to fax & data
	05-Jul-01	JHU	Converted to TAP2
	23-Oct-01	OT	Adaptations for EMproperly.
	26-Nov-01	OT	Variant CC026A instead of CC026